



**2023-2024 Elk Quota Recommendation Forms  
(Accompanies Commission Regulation 23-14)**

# Elk Quota Recommendation Form

Unit Group: 051

Date Prepared: 4/17/2023

Population Objective: 200

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |   | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|---|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L |                |          |                          |
| 2020-2021 | 4            | 21  | 16   | 41    | 19               | 76               | 90               | 67                     |   | 0 | 50             | 100      | 2                        |
| 2021-2022 | 2            | 28  | 10   | 40    | 7                | 36               | 100              | 50                     |   |   | 25             | 100      | 1                        |
| 2022-2023 | 7            | 20  | 9    | 36    | 35               | 45               | 120              | 33                     |   |   | 50             | 100      | 1                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | A                        | M | ALW |
| 2021-2022 |              |      | 2                 |      | 6              |      |              |      | 0             |      |                            |   |   |                 |   |   |                          |   |     |
| 2022-2023 |              |      | 1                 |      | 6              |      |              |      | 0             |      |                            |   |   |                 |   |   |                          |   |     |
| 2023-2024 |              |      | 1                 |      | 1              |      |              |      | 0             |      |                            |   |   |                 |   |   |                          |   |     |
| Tag Trend | =            | =    | DEC               | =    | DEC            | =    | =            | =    | =             | =    | =                          | = | = | =               | = | = | =                        | = | =   |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 |                    |      |                         |      | 0                    |      |                    |      | 6                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2022-2023 |                    |      |                         |      | 0                    |      |                    |      | 4                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2023-2024 |                    |      |                         |      | 0                    |      |                    |      | 0                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | =                  | =    | =                       | =    | =                    | =    | =                  | =    | DEC                 | =    | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

Currently, we are not seeing any growth in this population. Despite having a better than average winter we are not seeing an influx of animals moving in from adjacent areas like we have observed in the past. Since the Martin Fire occurred, continued rehabilitation efforts have continued in this area which is expected to help this population greatly in the future. This population is expected to see fluctuations in numbers depending on annual winter conditions. The objective is to maintain this herd below 200 animals. Hunter success and satisfaction has dropped iteratively since the 2021-2022 Big Game Hunting Season, warranting a reduction in bull quotas. Cow seasons were closed for the upcoming hunting season to allow for population growth and expansion.

Reporting Biologist: Partee

Supervisor: Munson

# Elk Quota Recommendation Form

Unit Group: 061, 071

Date Prepared: 4/17/2023

Population Objective: Habitat Based

## Herd & Harvest Results

| Year      | Survey Count |       |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-------|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow   | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 | 397          | 1,329 | 517  | 2,243 | 30               | 39               | 5,000 (1,700)    | 62                     |   | 59 | 17             | 64       | 190                      |
| 2021-2022 | 533          | 1,230 | 566  | 2,329 | 43               | 46               | 4,100 (1,400)    | 69                     |   | 61 | 16             | 66       | 136                      |
| 2022-2023 | 479          | 1,219 | 443  | 2,141 | 39               | 36               | 4,200 (1,400)    | 70                     |   | 29 | 28             | 62       | 94                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L   | A                        | M | ALW |
| 2021-2022 | 30           | 3    | 16                | 2    | 30             | 4    |              |      | 40            | 4    |                            |   |   | 8               |   | 8   |                          |   | 8   |
| 2022-2023 | 25           | 3    | 8                 | 1    | 18             | 2    |              |      | 25            | 3    |                            |   |   | 4               |   | 4   |                          |   | 7   |
| 2023-2024 | 13           | 1    | 6                 | 1    | 15             | 2    |              |      | 25            | 3    |                            |   |   | 5               | 0 | 5   |                          |   | 6   |
| Tag Trend | DEC          | DEC  | DEC               | =    | DEC            | =    | =            | =    | =             | =    | =                          | = | = | INC             | = | INC | =                        | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 60                 | 6    |                         |      | 235                  | 35   |                    |      | 195                 | 30   |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| 2022-2023 | 45                 | 7    |                         |      | 125                  | 18   |                    |      | 110                 | 16   |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| 2023-2024 | 35                 | 5    |                         |      | 130                  | 15   |                    |      | 130                 | 15   |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| Tag Trend | DEC                | DEC  | =                       | =    | INC                  | DEC  | =                  | =    | INC                 | DEC  | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The 061, 071 elk population estimate is nearly identical to the 2022 estimate. Antlerless harvest recommendations reflect a slight increase from 2022. This is largely due to four years of relatively strong calf recruitment. Current quota recommendations are designed to slow population growth as well as continuing to provide for hunter opportunity. While the antlered quota reductions in 2022 were successful in raising the percentage of harvested bulls with 50-inch main beam or better, the harvest metric remains below the management objective of a three-year average of 25-35% of total bulls harvested having 50-inch or greater main beam length. Overall, antlered quota recommendations reflect a slight decrease.

Reporting Biologist: Allen

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 062, 064, 066-068

Date Prepared: 4/17/2023

Population Objective: 500

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 | 78           | 298 | 116  | 492   | 26               | 39               | 700 (400)        | 52                     |   | 33 | 32             | 72       | 22                       |
| 2021-2022 | 161          | 443 | 160  | 764   | 36               | 36               | 700 (450)        | 27                     |   | 33 | 27             | 83       | 30                       |
| 2022-2023 | 138          | 393 | 159  | 690   | 35               | 40               | 800 (500)        | 50                     |   | 25 | 23             | 69       | 35                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L   | A                        | M | ALW |
| 2021-2022 | 2            | 1    | 4                 | 1    | 14             | 2    |              |      | 13            | 1    |                            |   |   | 3               | 0 | 3   |                          |   |     |
| 2022-2023 | 1            | 1    | 2                 | 1    | 13             | 1    |              |      | 12            | 1    |                            |   |   | 2               |   | 2   |                          |   |     |
| 2023-2024 | 6            | 1    | 3                 | 1    | 30             | 3    |              |      | 0             | 0    |                            |   |   | 18              |   | 0   |                          |   |     |
| Tag Trend | INC          | =    | INC               | =    | INC            | INC  | =            | =    | DEC           | DEC  | =                          | = | = | INC             | = | DEC | =                        | = | =   |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 10                 | 1    |                         |      | 65                   | 9    |                    |      | 0                   | 0    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| 2022-2023 | 10                 | 1    |                         |      | 75                   | 8    |                    |      | 0                   | 0    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| 2023-2024 | 16                 | 2    |                         |      | 75                   | 8    |                    |      | 70                  | 8    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| Tag Trend | INC                | INC  | =                       | =    | =                    | =    | =                  | =    | INC                 | INC  | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The 062, 064, 066-068 elk herd remains within population objective. The closure of antlerless elk hunts in units 064, 066-068 for 2022 is designed to direct harvest pressure to the northern sub-herd that summers in Unit 062 and winters on private lands, Idaho, and the Duck Valley Indian Reservation, and decrease pressure on the southern sub-herd, in order to work toward returning to a more even distribution of elk across the unit group. While allowing the southern sub-herd to increase, the northern sub-herd must be reduced at a similar rate. During the winter, Nevada elk often move into Idaho where they mix with resident Idaho elk on winter range. During winter elk surveys, this often results in total sample sizes that exceed the Unit group's actual population estimate giving the impression that the "Big 6" elk herd is being underestimated. The analysis of radio collar data allows biologists to base population estimates and tag quotas solely on only those animals that make up the Nevada portion of larger mixed population. The 3-year average percentage of 50-inch main beam or better bulls harvested in this unit group is within, although at the low end, of management objectives. The increase of early antlered elk ALW tags is due to the removal of the late antlered elk season, combined with the need to address an elevated bull ratio.

Reporting Biologist: Allen

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 072,073,074

Date Prepared: 4/17/2023

Population Objective: 1,420

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 | 140          | 217 | 140  | 497   | 65               | 65               | 1,100            | 30                     |   | 18 | 21             | 61       | 73                       |
| 2021-2022 | 88           | 121 | 62   | 271   | 73               | 51               | 1,200            | 37                     |   | 33 | 21             | 68       | 49                       |
| 2022-2023 | 174          | 227 | 167  | 568   | 77               | 74               | 1,300            | 33                     |   | 35 | 24             | 75       | 34                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L   | A                        | M | ALW |
| 2021-2022 | 60           | 8    | 30                | 4    | 100            | 10   |              |      | 100           | 10   |                            |   |   | 20              |   | 20  |                          |   | 15  |
| 2022-2023 | 35           | 4    | 10                | 1    | 55             | 6    |              |      | 55            | 6    |                            |   |   | 12              |   | 12  |                          |   | 13  |
| 2023-2024 | 14           | 2    | 7                 | 1    | 50             | 5    |              |      | 50            | 5    |                            |   |   | 10              |   | 10  |                          |   | 9   |
| Tag Trend | DEC          | DEC  | DEC               | =    | DEC            | DEC  | =            | =    | DEC           | DEC  | =                          | = | = | DEC             | = | DEC | =                        | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 10                 | 1    | 7                       | 1    | 65                   | 7    |                    |      | 50                  | 5    |                                  |   |   | 0                           | 0 | 0   | 5                               |   |   |
| 2022-2023 | 8                  | 2    | 9                       | 2    | 50                   | 5    |                    |      | 40                  | 4    |                                  |   |   |                             |   |     | 3                               |   |   |
| 2023-2024 | 16                 | 2    | 8                       | 1    | 90                   | 10   |                    |      | 80                  | 9    |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | INC                | =    | DEC                     | DEC  | INC                  | INC  | =                  | =    | INC                 | INC  | =                                | = | = | =                           | = | =   | DEC                             | = | = |

## Quota Rationale

Survey effort was increased in this unit group this year. Observed calf ratios were well above average Units 072 and 073. This may be at least partially contributed to the elk population being below habitat carrying capacity at its current level. The 3-year average antlered elk harvest metric of 50 inch main beam or better length remains below the management objective of 25-35%. As a result, recommended bull tag quotas have been decreased in an effort to move toward objective by increasing the average age of bulls harvested. The population estimate for this unit group (which includes the population objective of 100 adult elk in Unit 075) is below population objective. With the high calf ratios, antlerless elk tags will be increased this year to keep the herd at or slightly below population objective.

Reporting Biologist: Huebner

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 075

Date Prepared: 4/17/2023

Population Objective: 100

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 | 43           | 59  | 28   | 130   | 73               | 47               | 1,100            | 60                     |   | 29 | 24             | 86       | 6                        |
| 2021-2022 |              |     |      | 0     | --               | --               | 1,200            | 75                     |   | 29 | 29             | 75       | 7                        |
| 2022-2023 | 28           | 59  | 32   | 119   | 47               | 54               | 1,300            | 67                     |   | 0  | 31             | 67       | 4                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |     |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|-----|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | A                        | M | ALW |     |
| 2021-2022 | 3            |      | 2                 |      | 9              | 1    |              |      | 9             | 1    |                            |   |   |                 |   |   |                          |   |     | 9   |
| 2022-2023 | 3            |      | 1                 |      | 6              | 1    |              |      | 5             | 1    |                            |   |   |                 |   |   |                          |   |     | 9   |
| 2023-2024 | 3            |      | 1                 |      | 8              | 1    |              |      | 6             | 1    |                            |   |   |                 |   |   |                          |   |     | 7   |
| Tag Trend | =            | =    | =                 | =    | INC            | =    | =            | =    | INC           | =    | =                          | = | = | =               | = | = | =                        | = | =   | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |   |
| 2021-2022 | 2                  |      | 4                       |      | 4                    |      |                    |      | 50                  | 5    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |   |
| 2022-2023 | 2                  |      | 2                       |      | 6                    |      |                    |      | 40                  | 4    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |   |
| 2023-2024 | 2                  |      | 2                       |      | 14                   |      |                    |      | 80                  | 9    |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |   |
| Tag Trend | =                  | =    | =                       | =    | INC                  | =    | =                  | =    | INC                 | INC  | =                                | = | = | =                           | = | =   | =                               | = | = | = |

## Quota Rationale

This unit was surveyed extensively this year. Snow loads had elk concentrated. The 3-year average bull harvest metric of 50+ inch main beam length is within objective. Antlerless quotas are designed to keep this herd stable and within the individual Unit 075 population objective of 100 adult elk. Although Unit 075 is managed to maintain the resident herd within the 100 adult elk objective, due to regular movement of elk into and out of Unit 075 seasonally, it is necessary to model Unit 075 along with unit group 072-074 for population estimating purposes. The population estimate reported on this form of 1,300 adult elk is a combined pop estimate including both unit groups.

Reporting Biologist: Huebner

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 076,077,079,081

Date Prepared: 4/17/2023

Population Objective: 1,195

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 |              |     |      | 0     | --               | --               | 1,100            | 80                     |   | 58 | 36             | 80       | 72                       |
| 2021-2022 | 298          | 649 | 317  | 1,264 | 46               | 49               | 1,200            | 67                     |   | 57 | 24             | 72       | 80                       |
| 2022-2023 |              |     |      | 0     | --               | --               | 1,300            | 77                     |   | 71 | 30             | 68       | 118                      |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |    | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L  | A                        | M | ALW |
| 2021-2022 | 25           | 3    | 15                | 2    | 65             | 8    |              |      | 65            | 8    |                            |   |   | 10              |   | 10 |                          |   | 36  |
| 2022-2023 | 12           | 1    | 12                | 1    | 60             | 7    |              |      | 60            | 7    |                            |   |   | 10              |   | 10 |                          |   | 39  |
| 2023-2024 | 12           | 1    | 11                | 1    | 60             | 7    |              |      | 60            | 7    |                            |   |   | 10              |   | 10 |                          |   | 35  |
| Tag Trend | =            | =    | DEC               | =    | =              | =    | =            | =    | =             | =    | =                          | = | = | =               | = | =  | =                        | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |     |     | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|-----|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M   | L   | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 10                 | 1    | 15                      | 1    | 45                   |      |                    |      | 30                  |      | 10                               | 16  | 30  | 0                           | 0 | 0   |                                 |   |   |
| 2022-2023 | 8                  | 2    | 11                      | 2    | 70                   |      |                    |      | 40                  |      | 12                               | 18  | 35  | 0                           | 0 | 0   |                                 |   |   |
| 2023-2024 | 13                 | 1    | 14                      | 1    | 85                   | 9    |                    |      | 65                  | 7    | 19                               | 19  | 37  |                             |   |     |                                 |   |   |
| Tag Trend | INC                | DEC  | INC                     | DEC  | INC                  | INC  | =                  | =    | INC                 | INC  | INC                              | INC | INC | =                           | = | =   | =                               | = | = |

## Quota Rationale

This herd was surveyed intensively in 2022, so survey effort was concentrated in Unit Group 072 - 075 in 2023. Based on past collar data, approximately 200 elk that are typically found on this survey spend most of the year in Idaho, so that portion of the sample is removed from the population estimation process. The 3-year average 50+ inch main beam percentage harvest metric is within the objective of 25-35%. As a result, bull quota recommendations for the 2024-23 season will remain similar to last year. Because this herd is at or slightly above population objective, an increase in antlerless tags is being recommended.

Reporting Biologist: Huebner

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 078, 105-107, and 109

Date Prepared: 4/17/2023

Population Objective: 340 +/- 10%

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 | 122          | 251 | 105  | 478   | 49               | 42               | 600              | 75                     |   | 92 | 55             | 79       | 30                       |
| 2021-2022 | 91           | 317 | 124  | 532   | 29               | 39               | 750              | 69                     |   | 64 | 39             | 88       | 52                       |
| 2022-2023 | 40           | 188 | 91   | 319   | 21               | 48               | 750              | 83                     |   | 56 | 42             | 81       | 51                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L   | A                        | M | ALW |
| 2021-2022 | 10           | 1    | 12                | 1    | 16             | 3    |              |      | 16            | 2    |                            |   |   | 15              |   |     |                          |   |     |
| 2022-2023 | 10           | 1    | 13                | 1    | 19             | 3    |              |      | 19            | 2    |                            |   |   | 19              |   |     |                          |   |     |
| 2023-2024 | 10           | 2    | 13                | 1    | 20             | 2    |              |      | 20            | 2    |                            |   |   | 8, 1            |   | 8   |                          |   |     |
| Tag Trend | =            | INC  | =                 | =    | INC            | DEC  | =            | =    | INC           | =    | =                          | = | = | INC             | = | INC | =                        | = | =   |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 20                 | 2    | 15                      | 2    | 70                   |      |                    |      | 40                  |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2022-2023 | 20                 | 3    | 15                      | 3    | 80                   |      |                    |      | 55                  |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2023-2024 | 20                 | 2    | 25                      | 2    | 70, 8                | 8, 1 |                    |      | 45                  | 5    |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | =                  | DEC  | INC                     | DEC  | INC                  | INC  | =                  | =    | DEC                 | INC  | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The 2022 total harvest was a record for this unit group. The record harvest was nullified by the above average observed calf ratio. Assuming a return to average calf ratios, the proposed quotas are intended to begin dropping the population in the unit group toward population objective. The 2023 season will be the first to have a split early antlerless and spike hunt for this unit group. Units 078 and 107 will be grouped together as both have large groups of elk seeking refuge on private property. The units both have similar private property issues that we have begun to work through with cooperation of the landowners. This "sub-unit" group will receive most of the tags as this is the portion of the population that has been growing largely unchecked for the last decade. The 105, 106, and 109 "sub-unit" group will have a minimal quota in an effort to restore some balance to the elk use overall. The primitive weapon hunts, the bull hunts, and the late season hunts will all be unchanged and will continue to include the entire unit group. The 3-year average 50+ inch main beam percentage harvest metric was brought down to the high end of guidelines, and results in similar antlered elk quota recommendations.

Reporting Biologist: Roberts

Supervisor: Donham



# Elk Quota Recommendation Form

Unit Group: 091

Date Prepared: 4/17/2023

Population Objective: 125 (NV side)

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |   | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|---|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L |                |          |                          |
| 2020-2021 | 5            | 52  | 33   | 90    | 10               | 63               | 450              | 90                     |   |   | 44             | 100      | 14                       |
| 2021-2022 | 38           | 66  | 20   | 124   | 58               | 30               | 390              | 73                     |   |   | 22             | 63       | 19                       |
| 2022-2023 |              |     |      | 0     | --               | --               | 360              | 100                    |   |   | 13             | 80       | 7                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | A                        | M | ALW |
| 2021-2022 | 4            |      |                   |      | 12             |      |              |      |               |      |                            |   |   |                 |   |   |                          |   | 2   |
| 2022-2023 | 4            |      |                   |      | 12             |      |              |      |               |      |                            |   |   |                 |   |   |                          |   | 2   |
| 2032-2024 | 4            |      |                   |      | 12             |      |              |      |               |      |                            |   |   |                 |   |   |                          |   | 2   |
| Tag Trend | =            | =    | =                 | =    | =              | =    | =            | =    | =             | =    | =                          | = | = | =               | = | = | =                        | = | =   |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 |                    |      |                         |      | 5                    |      |                    |      | 5                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2022-2023 |                    |      |                         |      | 5                    |      |                    |      | 5                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2023-2024 |                    |      |                         |      | 5                    |      |                    |      | 5                   |      |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | =                  | =    | =                       | =    | =                    | =    | =                  | =    | =                   | =    | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

This unit was surveyed in partnership with Utah DWR in the summer of 2021. No survey was conducted in 2022. Because the Nevada portion of the herd is within population objective, the antlerless harvest will remain the same. The three year average 50+ inch main beam length percentage is below the alternative unit management objective of 35-45%, however the average age tooth metric that Utah collects is above their metric. Because the two metrics are showing different data (due to small sample size) the bull quota recommendations will remain the same as last year. Next year Nevada plans to collect tooth data to add to Utah's sample size in an effort to achieve more reliable metrics.

Reporting Biologist: Huebner

Supervisor: Donham

## Elk Quota Recommendation Form

Unit Group: 104, 108 and 121

Date Prepared: 4/17/2023

Population Objective: Up to 912

### Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |     |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|-----|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M   | L  |                |          |                          |
|           | 2020-2021    | 88  | 260  |       |                  |                  |                  | 113                    | 461 | 34 |                |          |                          |
| 2021-2022 | 62           | 172 | 75   | 309   | 36               | 44               | 900              | 59                     |     |    | 32             | 64       | 69                       |
| 2022-2023 | 59           | 204 | 80   | 343   | 29               | 39               | 900              | 67                     |     | 67 | 47             | 74       | 38                       |

### Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |    |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|----|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M  | L   | A                        | M | ALW |
|           | 2021-2022    | 11   | 1                 | 20   | 2              | 70   | 8            |      |               |      |                            |   |   |                 | 15 |     |                          |   |     |
| 2022-2023 | 11           | 1    | 18                | 2    | 40             | 5    |              |      | 40            | 6    |                            |   |   | 15              |    |     |                          |   | 2   |
| 2023-2024 | 14           | 2    | 10                | 1    | 50             | 7    |              |      | 50            | 6    |                            |   |   | 6               |    | 4   |                          |   | 2   |
| Tag Trend | INC          | INC  | DEC               | DEC  | INC            | INC  | =            | =    | INC           | =    | =                          | = | = | DEC             | =  | INC | =                        | = | =   |

### Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |    |     | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|----|-----|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M  | L   | A                           | M | ALW | E                               | M | L |
|           | 2021-2022          | 10   | 1                       | 10   | 1                    | 50   | 5                  |      |                     | 20   | 2                                | 25 | 10  | 15                          |   |     |                                 |   |   |
| 2022-2023 | 4                  | 2    | 5                       | 1    | 40                   | 4    |                    |      | 25                  | 3    | 25                               | 10 | 10  |                             |   |     |                                 |   |   |
| 2023-2024 | 4                  | 1    | 3                       | 1    | 40                   | 4    |                    |      | 16                  | 2    | 15                               | 10 | 5   |                             |   |     |                                 |   |   |
| Tag Trend | =                  | DEC  | DEC                     | =    | =                    | =    | =                  | =    | DEC                 | DEC  | DEC                              | =  | DEC | =                           | = | =   | =                               | = | = |

### Quota Rationale

The 2022 quota was designed to maintain this population very near its population objective, and it was very successful to that end. Assuming average calf ratios, the 2023 quotas should again hold this population at a static level. The 2022 season was the first to have a split ALW bull season in this unit group. The split was successful in spreading out hunter pressure, and both seasons resulted in identical success rates. The 3-year average 50+ inch main beam percentage harvest metric continues to be above guidelines, and is cause for the modest increases in the antlered elk quota recommendations.

Reporting Biologist: Roberts

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 108B,131,132

Date Prepared: 4/17/2023

Population Objective: 300 +/- 20% Adults

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |     |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|-----|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M   | L  |                |          |                          |
|           | 2020-2021    | 34  | 81   |       |                  |                  |                  | 23                     | 138 | 42 |                |          |                          |
| 2021-2022 | 39           | 112 | 21   | 172   | 35               | 19               | 310              |                        | 50  |    | 33             | 70       | 5                        |
| 2022-2023 | 42           | 108 | 39   | 189   | 39               | 36               | 310              |                        | 56  |    | 34             | 64       | 5                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | A                        | M | ALW |
|           | 2021-2022    | 7    | 1                 | 7    |                |      |              | 60   | 7             |      |                            |   |   |                 |   |   |                          |   |     |
| 2022-2023 | 5            | 1    | 7                 |      |                |      | 60           | 7    |               |      |                            |   |   |                 |   |   |                          |   |     |
| 2023-2024 | 7            | 1    | 4                 |      | 35             | 4    |              |      | 25            | 3    |                            |   |   |                 |   |   |                          |   |     |
| Tag Trend | INC          | =    | DEC               | =    | INC            | INC  | DEC          | DEC  | INC           | INC  | =                          | = | = | =               | = | = | =                        | = | =   |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
|           | 2021-2022          | 2    | 1                       | 2    | 1                    | 10   | 1                  |      |                     |      |                                  |   |   |                             | 0 | 0   | 0                               |   |   |
| 2022-2023 | 2                  | 2    | 2                       | 2    | 10                   | 2    |                    |      |                     |      |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| 2023-2024 | 2                  | 1    | 2                       | 1    | 20                   | 2    |                    |      |                     |      |                                  |   |   | 0                           | 0 | 0   |                                 |   |   |
| Tag Trend | =                  | DEC  | =                       | DEC  | INC                  | =    | =                  | =    | =                   | =    | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The current population estimate as well as the 50-in main beam percentage are within objectives. The 2023 aerial elk survey yielded the largest sample size since 2018. The 2023 observed calf ratio was above the 5-yr average (32 calves:100 cows). However, the observed bull ratio was significantly below the 5-yr average (61 bulls:100 cows). It is important to note that the observed bull ratio tends to vary year to year in this unit group due to the difficulty of locating bulls in the dense tree cover during winter surveys. The elk herd is stable and within objectives and will be maintained at current levels. It was recommended by the Wildlife County Advisory Boards and approved by the Commission that a split season be instituted for the 2023 hunt season.

Reporting Biologist: Kirk

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 111-115

Date Prepared: 4/17/2023

Population Objective: 2250 +/-20% (1,800-2,700)

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |    |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|----|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M  | L  |                |          |                          |
| 2020-2021 | 388          | 786 | 304  | 1,478 | 49               | 39               | 2,700            | 75                     | NA | 59 | 41             | 77       | 232                      |
| 2021-2022 | 348          | 713 | 191  | 1,252 | 49               | 27               | 2,500            | 68                     | NA | 58 | 44             | 75       | 178                      |
| 2022-2023 | 217          | 521 | 177  | 915   | 42               | 34               | 2,300            | 64                     | NA | 62 | 39             | 76       | 172                      |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |    |    | Spike Hunt 4651 |    |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|----|----|-----------------|----|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M  | L  | E               | M  | L   | A                        | M | ALW |
| 2021-2022 | 30           | 3    | 20                | 2    | 80             | 9    | NA           | NA   | 80            | 9    | NA                         | 25 | NA | 50              | NA | 50  | 7                        | 2 | 8   |
| 2022-2023 | 25           | 3    | 20                | 2    | 80             | 9    | NA           | NA   | 80            | 9    | NA                         | 25 | NA | 20              | NA | 20  | 11                       | 0 | 5   |
| 2023-2024 | 25           | 3    | 7                 | 1    | 70             | 7    | NA           | NA   | 75            | 8    | NA                         | 25 | NA | 38              | NA | 38  |                          |   |     |
| Tag Trend | =            | =    | DEC               | DEC  | DEC            | DEC  | =            | =    | DEC           | DEC  | =                          | =  | =  | INC             | =  | INC | DEC                      | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |     |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M   | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 70                 | 8    | 34                      | 4    | 150                  | 15   | NA                 | NA   | 175                 | 19   | 0                                | 50  | 0 | 0                           | 0 | 0   | 0                               | 0 | 0 |
| 2022-2023 | 27                 | 6    | 27                      | 6    | 110                  | 13   | NA                 | NA   | 115                 | 13   | 0                                | 100 | 0 | 0                           | 0 | 0   | 0                               | 0 | 0 |
| 2023-2024 | 32                 | 4    | 17                      | 3    | 95                   | 10   | NA                 | NA   | 130                 | 13   | 0                                | 50  | 0 | 0                           | 0 | 0   | 0                               | 0 | 0 |
| Tag Trend | INC                | DEC  | DEC                     | DEC  | DEC                  | DEC  | =                  | =    | INC                 | =    | =                                | DEC | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The antlered elk harvest metrics for percent 6-pt and percent 50" Main Beam or Better remain strong at 76% and 39%, respectively. The Percent 50" Main Beam or Better is in the middle of guideline objective of 35%-45% (3-year average). Recommended antlered elk quotas have a few slight changes designed to maintain quality in Area 11. Spike quotas are being increased this year in response to higher calf recruitment in 2022, resulting in more yearling bulls entering the population in 2023. Depredation bull quotas are remaining constant.

All units are at or below the population objective except Unit 115. In February 2021 five cow elk were collared in Unit 113. Between February 2021 and February 2023, the cow elk spent 45% of their time in Nevada. Population estimate adjustments were made to account for elk that do not reside full time in Nevada based on collar data. Antlerless quotas are designed to maintain the population at a stable level.

Reporting Biologist: Menghini

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 161-164

Date Prepared: 4/17/2023

Population Objective: 850

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |    |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|----|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M  | L  |                |          |                          |
| 2020-2021 |              |     |      | 0     | --               | --               | 750              | 100                    | 45 | 34 | 33             | 49       | 38                       |
| 2021-2022 | 81           | 338 | 42   | 461   | 24               | 12               | 650              | 100                    | 50 | 42 | 38             | 64       | 39                       |
| 2022-2023 | 53           | 300 | 62   | 415   | 18               | 21               | 600              | 100                    | 29 | 32 | 35             | 59       | 13                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |   |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|---|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | # of Tags                |   |   |
| 2021-2022 | 15           | 2    | 15                | 2    | 7              | 1    | 35           | 4    | 35            | 4    |                            |   |   | 15              |   |   |                          |   |   |
| 2022-2023 | 13           | 1    | 6                 | 1    | 6              | 1    | 35           | 3    | 35            | 4    |                            |   |   | 10              |   |   |                          |   |   |
| 2023-2024 | 6            | 1    | 4                 | 1    | 0              | 0    | 30           | 3    | 35            | 4    |                            |   |   | 15              |   |   |                          |   |   |
| Tag Trend | DEC          | =    | DEC               | =    | DEC            | DEC  | DEC          | =    | =             | =    | =                          | = | = | INC             | = | = | =                        | = | = |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 20                 | 2    | 20                      | 2    | 70                   | 7    |                    |      | 75                  | 7    |                                  |   |   |                             |   |     | 10                              |   |   |
| 2022-2023 | 5                  | 2    | 4                       | 2    | 40                   | 4    |                    |      | 55                  | 6    |                                  |   |   |                             |   |     | 2                               |   |   |
| 2023-2024 | 4                  | 1    | 2                       | 1    | 20                   | 2    |                    |      | 30                  | 3    |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | DEC                | DEC  | DEC                     | DEC  | DEC                  | DEC  | =                  | =    | DEC                 | DEC  | =                                | = | = | =                           | = | =   | DEC                             | = | = |

## Quota Rationale

Area 16 elk population has struggled with drought conditions and competition with feral equid herds. Aerial surveys resulted in another year of poor calf ratios. Two consecutive years of poor recruitment will leave a gap in the population's age composition. A slight reduction in the number of antlered tags is recommended because of lack of age class replacement from previous years poor calf recruitment. The antlerless quota saw a significant decrease in 2022 and was reflected in reduced harvest. A further decrease in quota is recommended to allow for the population to rebound. There is hope that the upcoming meadow exclosure fencing in Butler Basin and annual snowpack well above normal will bring this herd back to our objective. The rotating antlered rut hunt has switched weapon classes from ALW to archery. This switch back to a rotating weapon class will allow other weapon class users the opportunity to hunt during peak rutting activity. The antlerless wilderness hunt (4181) has been discontinued as it was a tool to reduce the Area 16 elk population below objective.

Reporting Biologist: Burkett

Supervisor: Bennett

# Elk Quota Recommendation Form

Unit Group: 221-223

Date Prepared: 4/17/2023

Population Objective: 1600 +/-20% (1,280-1,920)

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |    |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|----|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M  | L  |                |          |                          |
| 2020-2021 | 165          | 288 | 125  | 578   | 57               | 43               | 1,800            | 63                     | NA | 66 | 34             | 68       | 85                       |
| 2021-2022 | 141          | 428 | 90   | 659   | 33               | 21               | 1,700            | 71                     | NA | 45 | 43             | 73       | 78                       |
| 2022-2023 | 151          | 412 | 167  | 730   | 37               | 41               | 1,700            | 77                     | NA | 60 | 40             | 68       | 63                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |    |    | Spike Hunt 4651 |    |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|----|----|-----------------|----|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M  | L  | E               | M  | L   | A                        | M | ALW |
| 2021-2022 | 25           | 2    | 15                | 2    | 60             | 6    | NA           | NA   | 60            | 7    | NA                         | NA | NA | 25              | NA | 25  | 8                        | 0 | 5   |
| 2022-2023 | 30           | 3    | 16                | 2    | 65             | 8    | NA           | NA   | 65            | 8    | NA                         | NA | NA | 21              | NA | 20  | 6                        | 0 | 7   |
| 2023-2024 | 30           | 3    | 7                 | 1    | 80             | 8    | NA           | NA   | 80            | 9    | NA                         | NA | NA | 38              | NA | 34  |                          |   |     |
| Tag Trend | =            | =    | DEC               | DEC  | INC            | =    | =            | =    | INC           | INC  | =                          | =  | =  | INC             | =  | INC | DEC                      | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |     |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|-----|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L   |
| 2021-2022 | 25                 | 3    | 25                      | 3    | 80                   | 8    | NA                 | NA   | 70                  | 8    | 0                                | 0 | 0 | 0                           | 0 | 0   | 10                              | 0 | 10  |
| 2022-2023 | 25                 | 2    | 13                      | 2    | 70                   | 8    | NA                 | NA   | 60                  | 6    | 0                                | 0 | 0 | 0                           | 0 | 0   | 7                               | 0 | 7   |
| 2022-2024 | 25                 | 2    | 13                      | 1    | 90                   | 10   | NA                 | NA   | 75                  | 9    | 0                                | 0 | 0 | 0                           | 0 | 0   | 0                               | 0 | 0   |
| Tag Trend | =                  | =    | =                       | DEC  | INC                  | INC  | =                  | =    | INC                 | INC  | =                                | = | = | =                           | = | =   | DEC                             | = | DEC |

## Quota Rationale

The antlered elk harvest metrics for percent 6-pt and percent 50" Main Beam or Better are 68% and 40%, respectively. The percent 50" Main Beam or Better 3-year average is 39% and is above the guideline objective of 25%-35%. Recommended quotas for antlered elk are increasing this year to bring the percentage of bulls harvested with a 50" Main Beam within guideline objectives. Recommended spike quotas are being increased in response to higher calf recruitment in 2022. This population is currently within the population objective. Antlerless quotas are designed to hold this population at a stable level.

Reporting Biologist: Menghini

Supervisor: Donham

# Elk Quota Recommendation Form

Unit Group: 231

Date Prepared: 4/17/2023

Population Objective: 550

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |    | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|----|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L  |                |          |                          |
| 2020-2021 |              |     |      | 0     | --               | --               | 600              | 82                     |   | 53 | 34             | 61       | 90                       |
| 2021-2022 | 57           | 72  | 14   | 143   | 79               | 19               | 550              | 69                     |   | 61 | 25             | 60       | 76                       |
| 2022-2023 | 26           | 55  | 33   | 114   | 47               | 60               | 550              | 59                     |   | 58 | 36             | 69       | 66                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |     | Landowner Incentive Tags |   |     |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|-----|--------------------------|---|-----|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L   | # of Tags                |   |     |
| 2021-2022 | 20           | 2    | 6                 | 1    | 40             | 5    |              |      | 45            | 5    |                            |   |   | 10              |   | 10  |                          |   | 20  |
| 2022-2023 | 12           | 1    | 6                 | 1    | 40             | 4    |              |      | 40            | 4    |                            |   |   | 10              |   | 10  |                          |   | 24  |
| 2023-2024 | 12           | 1    | 6                 | 1    | 40             | 4    |              |      | 40            | 4    |                            |   |   | 9               |   | 9   |                          |   | 23  |
| Tag Trend | =            | =    | =                 | =    | =              | =    | =            | =    | =             | =    | =                          | = | = | DEC             | = | DEC | =                        | = | DEC |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 | 20                 | 1    | 10                      | 1    | 45                   | 5    |                    |      | 50                  | 5    |                                  |   |   |                             |   |     | 30                              |   |   |
| 2022-2023 | 5                  | 2    | 5                       | 2    | 30                   | 3    |                    |      | 40                  | 4    |                                  |   |   |                             |   |     | 25                              |   |   |
| 2023-2024 | 7                  | 1    | 6                       | 1    | 40                   | 4    |                    |      | 50                  | 5    |                                  |   |   |                             |   |     | 0                               |   |   |
| Tag Trend | INC                | DEC  | INC                     | DEC  | INC                  | INC  | =                  | =    | INC                 | INC  | =                                | = | = | =                           | = | =   | DEC                             | = | = |

## Quota Rationale

The population trend for Unit 231 has remained stable. It is important to note that a September survey was conducted in this unit which is inflating the calf ratios at a higher level. Harvest metrics for Unit 231 are slightly above the parameters for a standard unit. The 2022 hunt season saw an increase in 50-inch main beam length from 25% to 36% and the % 6pt is maintaining at a high level. Antlerless harvest was reduced last year to maintain the population within objective. With the elimination of the antlerless wilderness hunt the department is reapportioning the antlerless quotas into other seasons to maintain population level. A new 5-point restricted antlered depredation hunt was added to 231 to apply pressure on elk adjacent to agricultural lands. A total of 25 tags will be issued on this hunt among five seasons. In the bull hunts we are recommending a similar quota to last year. We recommend a slight increase in antlerless ALW early/late tags due to removal of the antlerless wilderness hunt.

Reporting Biologist: Shanks

Supervisor: Bennett

# Elk Quota Recommendation Form

Unit Group: 241,242

Date Prepared: 4/17/2023

Population Objective: 200

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |   | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|---|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L |                |          |                          |
| 2020-2021 |              |     |      | 0     | --               | --               | 110              | 100                    |   |   | 20             | 80       | 6                        |
| 2021-2022 | 1            | 24  | 5    | 30    | 4                | 21               | 110              | 75                     |   |   | 50             | 40       | 4                        |
| 2022-2023 |              |     |      | 0     | --               | --               | 110              | 70                     |   |   | 34             | 50       | 7                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |   |   |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|---|---|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | # of Tags                |   |   |   |
| 2021-2022 | 2            |      | 2                 |      | 4              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   | 1 |
| 2022-2023 | 2            |      | 2                 |      | 4              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   | 1 |
| 2023-2024 | 3            |      | 2                 |      | 3              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   | 1 |
| Tag Trend | INC          | =    | =                 | =    | DEC            | =    | =            | =    | =             | =    | =                          | = | = | =               | = | = | =                        | = | = | = |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |   |
| 2021-2022 | 3                  |      |                         |      | 10                   |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| 2022-2023 | 3                  |      |                         |      | 10                   |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| 2023-2024 | 2                  |      | 2                       |      | 10                   |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| Tag Trend | DEC                | =    | INC                     | =    | =                    | =    | =                  | =    | =                   | =    | =                                | = | = | =                           | = | =   | =                               | = | = | = |

## Quota Rationale

This elk population does not have a formal population model due to low elk numbers. The Department manages this population using harvest metrics from the previous 3 years. Quality of bull harvest, based on percent of harvest with main beams greater than 50 inches, has remained within the standard unit metrics. The Area has a rotational rut hunt, and the archery season will be in the rut this year. The shift in season structure warrants an additional archery tag. Success has remained high. Cow harvest has remained stable; therefore the department recommends a similar quota to last year.

Reporting Biologist: Shanks

Supervisor: Bennett



# Elk Quota Recommendation Form

Unit Group: 251

Date Prepared: 4/17/2023

Population Objective: 0

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |   | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|---|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L |                |          |                          |
| 2020-2021 |              |     |      | 0     | --               | --               |                  | 75                     |   |   | 33             | 67       |                          |
| 2021-2022 |              |     |      | 0     | --               | --               |                  | 80                     |   |   | 25             | 100      |                          |
| 2022-2023 |              |     |      | 0     | --               | --               |                  | 13                     |   |   | 0              | 100      | 2                        |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |   |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|---|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | # of Tags                |   |   |
| 2021-2022 |              |      |                   |      |                |      |              |      |               |      | 5                          |   |   |                 |   |   |                          |   |   |
| 2022-2023 |              |      |                   |      |                |      |              |      |               |      | 10                         |   |   |                 |   |   |                          |   |   |
| 2023-2024 |              |      |                   |      |                |      |              |      |               |      | 5                          |   |   |                 |   |   |                          |   |   |
| Tag Trend | =            | =    | =                 | =    | =              | =    | =            | =    | =             | =    | DEC                        | = | = | =               | = | = | =                        | = | = |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |
| 2021-2022 |                    |      |                         |      | 10                   |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2022-2023 |                    |      |                         |      | 15                   |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |
| 2023-2024 |                    |      |                         |      |                      |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |
| Tag Trend | =                  | =    | =                       | =    | DEC                  | =    | =                  | =    | =                   | =    | =                                | = | = | =                           | = | =   | =                               | = | = |

## Quota Rationale

The Unit 251 elk herd saw its first successful cow elk hunters since the hunt's inception. Due to the repeated low hunter success, the Department recommended removing the antlerless season. The Central Nevada Elk Plan has designated this area as a non-establishment area for elk. As of this year, there have been no documented cases of this elk herd depredating on private agriculture. No formal surveys are conducted currently because of low elk densities. Lack of visibility makes this a difficult hunt. The Kawich range, where this herd primarily resides, is covered in pinyon and juniper woodlands. Harvest success was reduced; therefore, the department recommends a decrease in quota.

Reporting Biologist: Burkett

Supervisor: Bennett

# Elk Quota Recommendation Form

Unit Group: 262

Date Prepared: 4/17/2023

Population Objective: 250

## Herd & Harvest Results

| Year      | Survey Count |     |      | Total | Bull Ratio (Obs) | Calf Ratio (Obs) | Pop Est (August) | Bull Rifle Success (%) |   |   | 50-in Beam (%) | 6 Pt (%) | Total Antlerless Harvest |
|-----------|--------------|-----|------|-------|------------------|------------------|------------------|------------------------|---|---|----------------|----------|--------------------------|
|           | Bull         | Cow | Calf |       |                  |                  |                  | E                      | M | L |                |          |                          |
| 2020-2021 | 10           | 5   | 1    | 16    | 200              | 20               | 170              | 100                    |   |   | 0              | 33       | --                       |
| 2021-2022 | 1            | 16  | 1    | 18    | 6                | 6                | 160              | 100                    |   |   | 40             | 40       | --                       |
| 2022-2023 |              |     |      | 0     | --               | --               | 150              | 100                    |   |   | 75             | 75       | --                       |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered

| Year      | Bull Archery |      | Bull Muzzleloader |      | Bull ALW Early |      | Bull ALW Mid |      | Bull ALW Late |      | Bull Depredation Hunt 4102 |   |   | Spike Hunt 4651 |   |   | Landowner Incentive Tags |   |   |   |
|-----------|--------------|------|-------------------|------|----------------|------|--------------|------|---------------|------|----------------------------|---|---|-----------------|---|---|--------------------------|---|---|---|
|           | 4161         | 4261 | 4156              | 4256 | 4151           | 4251 | 4151         | 4251 | 4151          | 4251 | E                          | M | L | E               | M | L | # of Tags                |   |   |   |
| 2021-2022 | 1            |      | 1                 |      | 3              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   |   |
| 2022-2023 | 1            |      | 1                 |      | 2              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   |   |
| 2023-2024 | 1            |      | 1                 |      | 3              |      |              |      |               |      |                            |   |   |                 |   |   |                          |   |   |   |
| Tag Trend | =            | =    | =                 | =    | INC            | =    | =            | =    | =             | =    | =                          | = | = | =               | = | = | =                        | = | = | = |

## Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlerless

| Year      | Antlerless Archery |      | Antlerless Muzzleloader |      | Antlerless ALW Early |      | Antlerless ALW Mid |      | Antlerless ALW Late |      | Antlerless Depredation Hunt 4107 |   |   | Antlerless Mgmt Hunt (DELK) |   |     | Antlerless Wilderness Hunt 4181 |   |   |   |
|-----------|--------------------|------|-------------------------|------|----------------------|------|--------------------|------|---------------------|------|----------------------------------|---|---|-----------------------------|---|-----|---------------------------------|---|---|---|
|           | 4111               | 4211 | 4176                    | 4276 | 4181                 | 4281 | 4151               | 4251 | 4151                | 4251 | E                                | M | L | A                           | M | ALW | E                               | M | L |   |
| 2021-2022 |                    |      |                         |      |                      |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| 2022-2023 |                    |      |                         |      |                      |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| 2023-2024 |                    |      |                         |      |                      |      |                    |      |                     |      |                                  |   |   |                             |   |     |                                 |   |   |   |
| Tag Trend | =                  | =    | =                       | =    | =                    | =    | =                  | =    | =                   | =    | =                                | = | = | =                           | = | =   | =                               | = | = | = |

## Quota Rationale

No formal aerial surveys were conducted in Unit 262 during the reporting period. The most recent aerial survey was completed in February of 2021 and yielded a sample of 18 elk. This herd is difficult to survey due to rugged terrain, dense tree cover, and human recreation and infrastructure. Based on hunter success and bull quality for the 2022 hunt season, we recommend an increase in quota for 2023 by 1 tag.

Reporting Biologist: Wood

Supervisor: Bennett