



**STATE OF NEVADA
DEPARTMENT OF WILDLIFE
Game Division**

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MEMORANDUM**APRIL 16, 2024**

To: Nevada Board of Wildlife Commissioners, County Advisory Boards to Manage Wildlife, and Interested Publics

From: Shawn Espinosa, Game Division Administrator and Staff including:
Mike Cox – Bighorn Sheep Staff Specialist
Cody Schroeder – Antelope and Mule Deer Staff Specialist
Cody McKee – Elk and Moose Staff Specialist

Title: **Commission Regulation 24-12, Big Game Quotas for the 2024-2025 Season**

Purpose: The Commission will establish regulations for the numbers of tags to be issued to mule deer, pronghorn antelope, elk, bighorn sheep, moose and mountain goats for the 2024-2025 season

Summary

This regulation will set the 2024-2025 season quotas for mule deer, pronghorn antelope, elk, bighorn sheep, moose and mountain goats. The Game Division continues to use the *Big Game Season Prescriptions and Management Objectives for Quota Recommendations* to provide guidance on the recommended big game tag quotas for each species. This document was presented to the Commission as an informational agenda item in January of 2022.

Brief Explanation of the Proposed Regulation

After what has resulted in two consecutive wet winters, many big game populations have responded favorably. Mule deer fawn ratios observed during fall and spring surveys are the highest they have been in the last 7 to 10 years. NRCS SNOTEL Snow/Precipitation Update Reports indicate that the Northern Great Basin sits at 122 percent of average precipitation and 156 percent of average snow water equivalent. Likewise, the Upper Humboldt, Clover Valley & Franklin River, Snake River, Owyhee River and Eastern Nevada Basins are all above 120 percent of average precipitation and over 150 percent of average snowpack. This comes on the heels of the 2022-2023 winter where most of these basins were all above 130 percent of average precipitation.

In general, the Department is recommending a 33 percent increase in horns-longer-than-ears antelope tags, an approximate 16 percent decrease in desert bighorn ram tags, an increase of 4 more tags for California bighorn rams, a slight increase in mountain goat tags, a 7.5 percent increase in elk tags (although bull elk quotas are similar to the prior season), a 19.5 percent increase in mule deer tags and Nevada's first ever moose hunt with a recommendation of 2 antlered moose tags. Department biologists make recommendations based on data collected through aerial and ground surveys and reported harvest results. Population models are utilized to provide population estimates for each big game population with densities large enough to support survey efforts. Smaller populations use previous year's hunt metrics (i.e., success, 4 points or greater, etc.) for recommended quotas. The Department quota recommendations are based on the best available science to provide the CAB's, Commission, and interested publics with the most accurate and representative data and information possible to make informed decisions on setting big game quotas for the 2024-2025 hunting seasons.

Antelope:

The Game Division uses a post-season buck ratio objective of 20-30 bucks aged 2-years-of-age-or-older to develop quota recommendations. The Department is recommending a total of 3,860 pronghorn tags for the 2024 season compared to 3,266 in 2023. For horns-longer-than-ears, we are recommending 2,931 tags which represents a 33 percent increase from 2023. Deviating somewhat from that, the Department is recommending a 13 percent decrease in horns-shorter-than-ear tags from 1,066 tags issued in 2023 to 929 for the 2024 season. In many cases, horns-shorter-than-ears quota recommendations are designed to curtail population growth in some areas where conflicts with agriculture are of high concern and to maintain populations below carrying capacity. This situation has subsided over the last couple of years. A substantial portion of the recommended increase for horns longer than ears was realized within the primitive weapon categories, particularly for resident archery where the quota increased from an approved 270 tags in 2023 to a recommended 592 tags in 2024. This reflects recent changes made to Policy 24.

Desert bighorn sheep:

Bighorn ram tag quota recommendations are based on 8% of the total estimated rams but not to exceed 50% of the estimated rams ≥ 6 years of age from each herd's population model. Nevada's desert bighorn numbers have drastically declined over the last 4 years from a peak in 2019 at 10,300 to 6,400 in 2024 due to multi-year drought and disease impacts to herds statewide. The Department is recommending 193 desert ram tags (including archery and management ram hunts) for the 2024-2025 season compared to 230 tags approved by the Wildlife Commission in 2023 which represents a 16 percent decline. The Department is also recommending 60 ewe tags to manage our most productive herd in the Muddy Mountains. This ewe quota is tempered to also allow for proposed bighorn captures for translocations later this fall.

California bighorn sheep:

With drought subsiding and recognizing some sizable wild horse removals in certain hunt unit groups, Nevada's California bighorn sheep population has exhibited some improvement from recent years, thus we are recommending a slight increase in ram quotas from 37 to 41 for 2024.

The statewide California bighorn sheep population estimate is stable at 1,700 but recent aerial surveys detected an increase in mature ram numbers in some herds. Average Boone & Crockett scores continue to be below expectations for a given age class of rams, but improved forage conditions and water distribution should result in better horn metrics. Additionally, we are excited to be offering the first ever California bighorn ram tag in the Bloody Run Hills portion of Hunt Unit 035 in 2024. This population resulted from a reintroduction effort in conducted in 2019.

Rocky Mountain bighorn sheep:

There are 6 Rocky Mountain bighorn sheep herds in Nevada with 3 of them at or below 50 adults and not able to support a ram hunt currently. Two of these herds continue to have high risk to interaction with domestic sheep flocks. For the 2024 season, we are recommending 3 Rocky Mountain bighorn tags comprised of 2 in the Ruby Mountain herd (Unit 102) and one tag in the South Snake Range (Unit 115). Just two tags were available in 2023.

Mountain goat:

Mountain goat harvest guidelines allow for the take of 2 – 5% of the total population. Population estimates for the East Humboldt, Ruby Mountain and Pearl Peak/South Ruby herds have been stable to increasing over the last few years. The 2024 pre-hunt population estimate for these 3 herds is 350 adult mountain goats. In support of recent improvements in population numbers, the Department is recommending a two-tag increase in 2024 from 14 tags issued in 2023 to 16 tags for the upcoming season. The composition of these tags consists of 14 resident, one non-resident and one Silver State tag for the 2024 season. Concerningly, we continue to experience a higher than preferred harvest rate of nannies (20 – 40%) which has the potential to negatively affect the herds' productivity.

Elk:

Habitat conditions throughout occupied elk areas in Nevada were much improved during the summer and fall of 2023 and winter conditions were mild compared to the winter of 2022-2023. We expect body condition and population productivity to increase substantially this year.

For the 2024-2025 season, the Department is recommending 4,360 total elk tags compared to 4,057 for the 2023 season. This represents a 7.5 percent increase from the previous season. The number of bull/spike tags remained similar to that of 2023 with a recommended 1,779 tags for the 2024 season. Likewise, the recommended number of spike tags remained essentially the same as in 2023 with a recommended 279 tags. A 19 percent increase in resident bull elk archery tags is being recommended for the 2024 season with 209 tags. Exceptional calf ratios in many areas of the state resulted in a 14 percent increase in cow elk tags from the 2023 season with 2,581 tags recommended for 2024-2025.

Harvest objectives guiding quota recommendations for antlered elk advise 25-35% of harvested bulls should have a main beam of at least 50 inches in length. The recommended bull quota remained stable mainly due to a decrease in the composition of 50 inch plus main beam bulls. This metric declined from 35 percent in 2022 to 30 percent in 2023. This could have been due to harsh winter conditions that lingered well into April 2023 and may have affected body condition of bulls; placing energy into body condition restoration as opposed to antler growth. Further,

fewer mature bulls may be available for harvest due to poor calf recruitment experienced in years prior to 2023.

All elk quotas comply with the Nevada Elk Species Management Plan (1997), as well as local sub-plans corresponding to various herds across the state. Recommendations vary from year-to-year depending on population status with respect to population objectives and harvest metrics. Currently, most elk herds comply with population objectives.

Mule Deer:

For the 2024-2025 season, the Department is recommending 12,954 mule deer tags. This represents a 19.5 percent increase from the 2023-2024 season but is still below the number of tags approved by the Wildlife Commission in 2022 of 15,210 tags. We are recommending 10,632 buck tags distributed among Any Legal Weapon, Muzzleloader and Archery seasons compared to 8,327 in 2023. This is a similar quota recommendation to the number of buck tags provided in 2022 of 11,384. A fairly significant portion of the increase is being realized within the muzzleloader (+100.5%) and archery (+30%) weapon classes followed by a 16.5 percent increase in the resident Any Legal Weapon category. Junior tag increases of approximately 7.5 percent are being recommended with 2,094 junior tags. No antlerless seasons, and thus quotas, were developed for the 2024-2025 season.

The harvest guidelines used by the Game Division call for a management objective of 30 bucks per 100 does post season for Standard hunt units and 35 bucks per 100 does in Alternative hunt units. The management objectives refer to the number of bucks left on the landscape after all seasons have concluded. For Non-Standard hunts (areas which are not surveyed for mule deer due to lower densities), the objective is for hunt success rates to be 45% or greater. We reviewed 36 quota recommendation forms with well-established buck ratios and found that 19 used post season buck ratio recommendations that were greater than 30. Of those, 12 used post season buck ratio recommendations that were greater than or equal to 35. This illustrates that even though buck quotas increased, quota recommendations are still considered conservative. Higher post season buck ratios were used because the age class of bucks in many hunt units or unit groups is relatively young, and this strategy should be beneficial to age class structure in future years.

During the fall of 2023, 16,683 deer were classified with a composition of 30 bucks per 100 does post season and 60 fawns per 100 does. Recent spring surveys classified 25,167 deer with an estimated 37 fawns per 100 adults. The fawn ratio represented a substantial increase from 2023 when spring fawn ratios were calculated at 30 per 100 adults. Habitat conditions and available water increased significantly during the summer and fall of 2023 and winter conditions were conducive to adult and fawn survival. These conditions should be conducive to a mule deer population increase in 2024.

Moose:

The 2024 hunting season represents the first time in Nevada's history that a moose hunt will be available. The Department is recommending 2 antlered moose tags for resident hunters. This represents approximately 4 percent of the available bull moose estimated in Nevada out of a population of 105 moose.

Since 2020, survival for adult moose has ranged from 94-100 percent and recruitment rates for monitored cows has averaged 73 calves per 100 cows annually. These metrics suggest real potential for rapid population growth and can be corroborated by a nearly 300 percent increase in reported observations during 2023. The population estimate is primarily driven by observed calf ratios which may be biased low. The Department is proceeding cautiously with a proposal for light harvest as we gain and evaluate valuable information about moose demographics in Nevada.

Recommendation

The Department recommends that the Commission review and adopt the proposed regulation as presented.

2024 BIG GAME QUOTA RECOMMENDATIONS COMMISSION REGULATION 24-12

The Board of Wildlife Commissioners under the authority of sections 501.181, 502.140, 502.250, 503.120 and 503.140 of the Nevada Revised Statutes, does hereby adopt the following regulation for the big game resource.

Note: The harvest limit is one and the hunting hours are one-half hour before sunrise to one-half hour after sunset for all big game hunts, unless otherwise specified.

Resident Antelope - Horns longer than ears Any Legal Weapon Hunt 2151

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011	Aug 22 - Sept 7	25	20
012 - 014	Aug 22 - Sept 7	122	120
015	Aug 22 - Sept 7	65	60
021, 022	Aug 22 - Sept 7	46	40
031	Aug 22 - Sept 7	92	90
032, 034	Aug 22 - Sept 7	40	40
033 Early	Aug 22 - Aug 28	21	25
033 Late	Aug 29 - Sept 7	20	25
035	Aug 22 - Sept 7	25	20
041, 042 Early	Aug 22 - Aug 28	25	20
041, 042 Late	Aug 29 - Sept 7	25	20
043 - 046	Aug 22 - Sept 7	140	130
051	Aug 22 - Sept 7	50	45
061, 062, 064, 071, 073	Aug 22 - Sept 7	201	150
065, 142, 144 ^A	Aug 22 - Sept 7	45	25
066	Aug 22 - Sept 7	30	25
067, 068	Aug 22 - Sept 7	130	100
072, 074, 075	Aug 22 - Sept 7	46	75
076, 077, 079, 081, 091	Aug 22 - Sept 7	71	50
078, 105 - 107, 121	Aug 22 - Sept 7	20	25
101 - 104, 108, 109, 144 ^B	Aug 22 - Sept 7	60	35
111 - 114	Aug 22 - Sept 7	55	30
115, 231, 242	Aug 22 - Sept 7	35	20
131, 145, 163, 164	Aug 22 - Sept 7	6	3
132 - 134, 245	Aug 22 - Sept 7	5	20
141, 143, 151 - 156	Aug 22 - Sept 7	270	250
161, 162	Aug 22 - Sept 7	15	15
171 - 173	Aug 22 - Sept 7	15	15
181 - 184	Aug 22 - Sept 7	71	55
202, 204	Oct 15 - Oct 30	8	8

203, 291	Aug 22 - Sept 7	8	10
205 - 208	Aug 22 - Sept 7	15	15
211 - 213	Aug 22 - Sept 7	6	7
221 – 223, 241	Aug 22 - Sept 7	25	20
251	Aug 22 - Sept 7	20	15
TOTAL		1,853	1,623

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

**Nonresident Antelope - Horns longer than ears
Any Legal Weapon Hunt 2251**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011	Aug 22 - Sept 7	2	2
012 - 014	Aug 22 - Sept 7	15	15
015	Aug 22 - Sept 7	7	7
021, 022	Aug 22 - Sept 7	5	4
031	Aug 22 - Sept 7	10	10
032, 034	Aug 22 - Sept 7	4	4
033 Early	Aug 22 - Aug 28	2	1
033 Late	Aug 29 - Sept 7	2	1
035	Aug 22 - Sept 7	3	2
041, 042 Early	Aug 22 - Aug 28	3	2
041, 042 Late	Aug 29 - Sept 7	3	2
043 - 046	Aug 22 - Sept 7	15	15
051	Aug 22 - Sept 7	5	5
061, 062, 064, 071, 073	Aug 22 - Sept 7	25	20
065, 142, 144 ^A	Aug 22 - Sept 7	5	3
066	Aug 22 - Sept 7	3	3
067, 068	Aug 22 - Sept 7	15	15
072, 074, 075	Aug 22 - Sept 7	5	8
076, 077, 079, 081, 091	Aug 22 - Sept 7	7	5
078, 105 - 107, 121	Aug 22 - Sept 7	2	3
101 – 104, 108, 109, 144 ^B	Aug 22 - Sept 7	6	4
111 – 114	Aug 22 - Sept 7	6	3
115, 231, 242	Aug 22 - Sept 7	4	2
131, 145, 163, 164	Aug 22 - Sept 7	1	1
132 - 134, 245	Aug 22 - Sept 7	1	2
141, 143, 151 - 156	Aug 22 - Sept 7	30	30
161, 162	Aug 22 - Sept 7	1	1
171 - 173	Aug 22 - Sept 7	2	2
181 - 184	Aug 22 - Sept 7	7	6
202, 204	Oct 15 - Oct 30	1	1
205 - 208	Aug 22 - Sept 7	2	1

221 – 223, 241	Aug 22 - Sept 7	3	2
251	Aug 22 - Sept 7	2	1
TOTAL		204	183

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

**Resident Antelope - Horns longer than ears
Muzzleloader Hunt 2171**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
011	Sept 25 - Oct 4	10	4
012-014	Sept 25 - Oct 4	10	5
015	Sept 25 - Oct 4	10	10
021 - 022	Sept 25 - Oct 4	3	2
031	Sept 25 - Oct 4	7	1
032,034	Sept 25 - Oct 4	7	1
033	Sept 25 - Oct 5	7	2
035	Sept 25 - Oct 6	3	1
041, 042	Aug 15 - Aug 21	4	2
043 - 046	Aug 15 - Aug 21	10	5
051	Sept 25 - Oct 4	7	1
061, 062, 064, 071, 073	Sept 25 - Oct 4	20	1
065, 142, 144 ^A	Sept 25 - Oct 4	4	1
066	Sept 25 - Oct 4	2	5
067, 068	Sept 25 - Oct 4	20	3
072, 074, 075	Sept 25 - Oct 4	2	1
076, 077, 079, 081, 091	Sept 25 - Oct 4	9	1
078, 105 - 107, 121	Sept 25 - Oct 4	2	2
101 – 104, 108, 109, 144 ^B	Sept 25 - Oct 4	10	1
111 – 114	Sept 25 - Oct 4	3	1
115, 231, 242	Aug 15 - Aug 21	6	1
131, 145, 163, 164	Aug 15 - Aug 21	1	1
132 - 134, 245	Aug 15 - Aug 21	1	1
141, 143, 151 - 156	Aug 15 - Aug 21	20	2
161 – 162	Sept 25 - Oct 4	4	3
171 – 173	Sept 25 - Oct 4	5	5
181 – 184	Sept 25 - Oct 4	2	2
202, 204	Aug 15 - Aug 21	1	1
203, 291	Sept 25 - Oct 4	2	1
205 – 208	Sept 25 - Oct 4	2	1
211 – 213	Sept 25 - Oct 4	1	1
221 – 223, 241	Aug 15 - Aug 21	6	1
251	Sept 25 - Oct 4	7	2
TOTAL		208	72

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

**Nonresident Antelope - Horns longer than ears
Muzzleloader Hunt 2271**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
012-014	Sept 25 - Oct 4	1	1
031	Sept 25 - Oct 4	1	1
043 - 046	Aug 15 - Aug 21	1	1
061, 062, 064, 071, 073	Sept 25 - Oct 4	1	1
067, 068	Sept 25 - Oct 4	1	1
078, 105 - 107, 121	Sept 25 - Oct 4	1	1
101 – 104, 108, 109, 144 ^A	Sept 25 - Oct 4	1	1
111 – 114	Sept 25 - Oct 4	1	1
141, 143, 151 - 156	Aug 15 - Aug 21	2	1
TOTAL		10	9

^A That portion of Unit 144 in White Pine County.

**Resident Antelope - Horns longer than ears
Archery Hunt 2161**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
011	Aug 1 - Aug 21	20	5
012 - 014	Aug 1 - Aug 21	27	15
015	Aug 1 - Aug 21	26	15
021, 022	Aug 1 - Aug 21	10	5
031	Aug 1 - Aug 21	25	6
032, 034	Aug 1 - Aug 21	20	20
033	Aug 1 - Aug 21	7	4
035	Aug 1 - Aug 21	4	1
041, 042	Aug 1 - Aug 14	9	7
043 - 046	Aug 1 - Aug 14	45	20
051	Aug 1 - Aug 21	20	20
061, 062, 064, 071, 073	Aug 1 - Aug 21	60	15
065, 142, 144 ^A	Aug 1 - Aug 21	25	3
066	Aug 1 - Aug 21	4	5
067, 068	Aug 1 - Aug 21	55	15
072, 074, 075	Aug 1 - Aug 21	20	25
076, 077, 079, 081, 091	Aug 1 - Aug 21	25	3
078, 105 - 107, 121	Aug 1 - Aug 21	4	1
101 – 104, 108, 109, 144 ^B	Aug 1 - Aug 21	20	5
111 – 114	Aug 1 - Aug 21	20	4
115, 231, 242	Aug 1 - Aug 14	6	4

131, 145, 163, 164	Aug 1 - Aug 14	3	<i>1</i>
132 – 134, 245	Aug 1 - Aug 14	1	<i>1</i>
141, 143, 151 - 156	Aug 1 - Aug 14	92	<i>35</i>
161, 162	Aug 1 - Aug 21	4	<i>3</i>
171 - 173	Aug 1 - Aug 21	5	<i>5</i>
181 - 184	Aug 1 - Aug 21	10	<i>10</i>
203, 291	Aug 1 - Aug 21	2	<i>2</i>
205 - 208	Aug 1 - Aug 21	10	<i>10</i>
211 - 213	Aug 1 - Aug 21	1	<i>1</i>
221 – 223, 241	Aug 1 - Aug 14	8	<i>3</i>
251	Aug 1 - Aug 21	4	<i>1</i>
TOTAL		592	<i>270</i>

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

**Nonresident Antelope - Horns longer than ears
Archery Hunt 2261**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011	Aug 1 - Aug 21	2	<i>1</i>
012 - 014	Aug 1 - Aug 21	3	<i>2</i>
015	Aug 1 - Aug 21	3	<i>1</i>
021, 022	Aug 1 - Aug 21	1	<i>1</i>
031	Aug 1 - Aug 21	3	<i>2</i>
032, 034	Aug 1 - Aug 21	2	<i>2</i>
033	Aug 1 - Aug 21	1	<i>1</i>
035	Aug 1 - Aug 21	1	<i>1</i>
041, 042	Aug 1 - Aug 14	1	<i>1</i>
043 - 046	Aug 1 - Aug 14	5	<i>3</i>
051	Aug 1 - Aug 21	2	<i>2</i>
061, 062, 064, 071, 073	Aug 1 - Aug 21	7	<i>2</i>
065, 142, 144 ^A	Aug 1 - Aug 21	2	<i>1</i>
067, 068	Aug 1 - Aug 21	6	<i>2</i>
072, 074, 075	Aug 1 - Aug 21	2	<i>4</i>
078, 105 - 107, 121	Aug 1 - Aug 21	1	<i>1</i>
101 – 104, 108, 109, 144 ^B	Aug 1 - Aug 21	2	<i>1</i>
111 – 114	Aug 1 - Aug 14	2	<i>1</i>
115, 231, 242	Aug 1 - Aug 14	1	<i>1</i>
131, 145, 163, 164	Aug 1 - Aug 14	1	<i>1</i>
132 - 134, 245	Aug 1 - Aug 21	1	<i>1</i>
141, 143, 151 - 156	Aug 1 - Aug 14	11	<i>7</i>
161, 162	Aug 1 - Aug 21	1	<i>1</i>
171 - 173	Aug 1 - Aug 21	1	<i>1</i>
181 - 184	Aug 1 - Aug 21	1	<i>1</i>

205 - 208	Aug 1 - Aug 21	1	1
TOTAL		64	43

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

**Resident Antelope - Horns shorter than ears
Any Legal Weapon Hunt 2181**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
043-046	Sept 8 - Sept 24	55	<i>50</i>
061, 062, 064, 071, 073	Sept 8 - Sept 24	230	<i>230</i>
065, 142, 144 ^A	Sept 8 - Sept 24	10	<i>6</i>
066	Sept 8 - Sept 24	10	<i>10</i>
067, 068	Sept 8 - Sept 24	56	<i>90</i>
072, 074, 075	Sept 8 - Sept 24	30	<i>50</i>
076, 077, 079, 081, 091	Sept 8 - Sept 24	30	<i>15</i>
101-104, 108, 109, 144 ^B	Sept 8 - Sept 24	7	<i>15</i>
115 ^C	Sept 8 - Sept 24	20	<i>20</i>
141, 143, 152, 154, 155	Sept 8 - Sept 24	261	<i>330</i>
151, 153, 156	Sept 8 - Sept 24	180	<i>220</i>
181 - 184	Sept 8 - Sept 24	40	<i>30</i>
TOTAL		929	<i>1,066</i>

^A That portion of Unit 144 in Eureka County.

^B That portion of Unit 144 in White Pine County.

^C Within 1 mile of Great Basin Ranch properties in Hunt Unit 115.

**Resident Elk - Antlered
Any Legal Weapon Depredation Hunt 4102**

Special Regulations: Eligibility restrictions concerning successive years' hunts as stated in NAC 502.361 do not apply to this hunt.

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
101 - 103* Early	Aug 1 - Sep 30	50	50
101 - 103* Late	Oct 1 - Jan 1	50	50
115 ^A Antler Pt. Limit [†] - 1st	Aug 1 - Aug 15	5	5
115 ^A Antler Pt. Limit [†] - 2nd	Aug 16 - Aug 31	5	5
115 ^A Antler Pt. Limit [†] - 3rd	Sept 1 - Sept 30	5	5
115 ^A Antler Pt. Limit [†] - 4th	Oct 1 - Oct 31	5	5
115 ^A Antler Pt. Limit [†] - 5th	Nov 1 - Nov 30	5	5
144, 145* Early	Aug 1 - Sept 30	5	5
144, 145* Late	Oct 1 - Jan 1	5	5
231 ^B Antler Pt. Limit [†] - 1st	Aug 1 - Aug 15	5	5
231 ^B Antler Pt. Limit [†] - 2nd	Aug 16 - Aug 31	5	5
231 ^B Antler Pt. Limit [†] - 3rd	Sept 1 - Sept 30	5	5
231 ^B Antler Pt. Limit [†] - 4th	Oct 1 - Oct 31	5	5
231 ^B Antler Pt. Limit [†] - 5th	Nov 1 - Nov 30	5	5
251*	Aug 1 - Jan 1	5	5
TOTAL		165	170

* Low elk numbers in the area. Depredation Hunts are intended to drastically reduce elk numbers. Poor hunter success expected.

^A Within 2 miles of Great Basin Ranch Properties

^B Within 2 miles of designated Lake Valley Farms, Eight Mile Farms, and Flatnose Ranch Properties in Hunt Unit 231.

[†]Hunters may only take an antlered elk with no more than 5 points on either antler including the first point on the main beam. An antler point is defined in Nevada Administrative Code (NAC 502.006) as any antler projection which is at least 1-inch in length with the length exceeding the width of its base.

**Resident Elk - Antlered
Any Legal Weapon Hunt 4151**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
051	Sept 17 - Sept 30	2	1
061, 071 Early	Oct 5 - Oct 21	11	15
061, 071 Late	Oct 22 - Nov 5	18	25
062, 064, 066 - 068	Oct 22 - Nov 5	30	30
072, 073, 074 Early	Oct 22 - Nov 5	36	50
072, 073, 074 Late	Nov 6 - Nov 20	36	50
075 Early	Oct 22 - Nov 5	8	8
075 Late	Nov 6 - Nov 20	6	6

076, 077, 079, 081 Early	Nov 6 - Nov 20	51	60
076, 077, 079, 081 Late	Nov 21 - Dec 4	55	60
078, 105 - 107, 109 Early	Oct 22 - Nov 5	19	20
078, 105 - 107, 109 Late	Nov 6 - Nov 20	20	20
091*	Sept 16 - Oct 6	12	12
104, 108 ^B , 121 Early	Nov 6 - Nov 20	41	40
104, 108 ^B , 121 Late	Nov 21 - Dec 4	40	40
108 ^C , 131, 132 Early	Nov 6 - Nov 20	30	30
108 ^C , 131, 132 Late	Nov 21 - Dec 4	25	25
111 - 115 Early	Nov 6 - Nov 20	55	60
111 - 115 Late	Nov 21 - Dec 4	62	60
161 - 164, 171 - 173 Early	Nov 6 - Nov 20	30	30
161 - 164, 171 - 173 Late	Nov 21 - Dec 4	36	35
221 - 223 Early	Nov 6 - Nov 20	72	70
221 - 223 Late	Nov 21 - Dec 4	87	70
231 Early	Nov 6 - Nov 20	41	40
231 Late	Nov 21 - Dec 4	42	40
241, 242	Nov 6 - Nov 20	3	3
262	Sept 17 - Sept 30	3	3
TOTAL		871	903

* Interstate hunt with Utah. Nevada and Utah hunters may hunt within open units in both states. Nevada hunters hunting in Utah must abide by Utah regulations.

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

Nonresident Elk - Antlered Any Legal Weapon Hunt 4251

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071 Early	Oct 5 - Oct 21	1	2
061, 071 Late	Oct 22 - Nov 5	2	3
062, 064, 066 - 068	Oct 22 - Nov 5	3	3
072, 073, 074 Early	Oct 22 - Nov 5	3	5
072, 073, 074 Late	Nov 6 - Nov 20	3	5
075 Early	Oct 22 - Nov 5	2	1
075 Late	Nov 6 - Nov 20	2	1
076, 077, 079, 081 Early	Nov 6 - Nov 20	6	7
076, 077, 079, 081 Late	Nov 21 - Dec 4	6	7
078, 105 - 107, 109 Early	Oct 22 - Nov 5	2	2
078, 105 - 107, 109 Late	Nov 6 - Nov 20	2	2
104, 108 ^B , 121 Early	Nov 6 - Nov 20	5	6
104, 108 ^B , 121 Late	Nov 21 - Dec 4	5	5
108 ^C , 131, 132 Early	Nov 6 - Nov 20	3	4
108 ^C , 131, 132 Late	Nov 21 - Dec 4	3	3
111 - 115 Early	Nov 6 - Nov 20	6	6

111 - 115 Late	Nov 21 - Dec 4	7	7
161 - 164, 171 - 173 Early	Nov 6 - Nov 20	3	3
161 - 164, 171 - 173 Late	Nov 21 - Dec 4	3	4
221 - 223 Early	Nov 6 - Nov 20	9	7
221 - 223 Late	Nov 21 - Dec 4	9	8
231 Early	Nov 6 - Nov 20	4	4
231 Late	Nov 21 - Dec 4	4	4
TOTAL		93	99

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

**Resident Elk - Antlered
Muzzleloader Hunt 4156**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
051	Sept 1 - Sept 16	1	1
061,071	Sept 1 - Sept 16	5	6
062, 064, 066-068	Sept 1 - Sept 16	2	3
072, 073, 074	Sept 17 - Sept 30	6	7
075	Sept 17 - Sept 30	1	1
076, 077, 079, 081	Oct 22 - Nov 5	15	11
078, 105 - 107, 109	Oct 5 - Oct 21	9	13
104, 108 ^B , 121	Oct 22 - Nov 5	10	25
108 ^C , 131, 132	Oct 22 - Nov 5	8	9
111 - 115	Oct 22 - Nov 5	16	27
161 - 164, 171 - 173	Oct 22 - Nov 5	9	4
221 - 223	Oct 22 - Nov 5	25	22
231	Oct 22 - Nov 5	12	6
241, 242	Oct 22 - Nov 5	2	2
262	Oct 22 - Nov 5	1	1
TOTAL		122	138

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

**Nonresident Elk - Antlered
Muzzleloader Hunt 4256**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071	Sept 1 - Sept 16	1	1
062, 064, 066-068	Sept 1 - Sept 16	1	1
072, 073, 074	Sept 17 - Sept 30	1	1
076, 077, 079, 081	Oct 22 - Nov 5	2	1
078, 105 - 107, 109	Oct 5 - Oct 21	2	2
104, 108 ^B , 121	Oct 22 - Nov 5	1	3
111 - 115	Oct 22 - Nov 5	2	3
161 - 164, 171 - 173	Oct 22 - Nov 5	1	1

221 - 223	Oct 22 - Nov 5	3	3
231	Oct 22 - Nov 5	1	1
TOTAL		15	17

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

Resident Elk - Antlered Archery Hunt 4161

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
061, 071	Aug 16 - Aug 31	17	13
062, 064, 066 - 068	Aug 16 - Aug 31	5	6
072, 073, 074	Aug 25 - Sept 16	30	14
075	Aug 25 - Sept 16	4	3
076, 077, 079, 081	Aug 25 - Sept 16	25	12
078, 105 - 107, 109	Sept 1 - Sept 20	10	10
091*	Aug 19 - Sept 9	4	4
104, 108 ^B , 121	Aug 25 - Sept 16	15	19
108 ^C , 131, 132	Aug 25 - Sept 16	6	7
111 - 115	Aug 25 - Sept 16	25	30
161 - 164, 171 - 173	Sept 17 - Sept 30	7	6
221 - 223	Aug 25 - Sept 16	36	35
231	Aug 25 - Sept 16	21	12
241, 242	Sept 17 - Sept 30	3	3
262	Aug 25 - Sept 16	1	1
TOTAL		209	175

*Interstate hunt with Utah. Nevada and Utah hunters may hunt within open units in both states. Nevada hunters hunting in Utah must abide by Utah regulations.

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

Nonresident Elk - Antlered Archery Hunt 4261

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
061, 071	Aug 16 - Aug 31	2	2
062, 064, 066 - 068	Aug 16 - Aug 31	1	1
072, 073, 074	Aug 25 - Sept 16	4	2
076, 077, 079, 081	Aug 25 - Sept 16	3	1
078, 105 - 107, 109	Sept 1 - Sept 20	2	2
104, 108 ^B , 121	Aug 25 - Sept 16	2	2
108 ^C , 131, 132	Aug 25 - Sept 16	1	1

111 - 115	Aug 25 - Sept 16	3	3
161 - 164, 171 - 173	Sept 17 - Sept 30	1	1
221 - 223	Aug 25 - Sept 16	4	3
231	Aug 25 - Sept 16	2	1
TOTAL		25	19

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

**Resident Elk - Spike
Any Legal Weapon Hunt 4651**

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
061, 071 Early	Sept 17 - Oct 4	5	5
061, 071 Late	Nov 6 - Jan 1	5	5
062, 064, 066 - 068	Sept 17 - Oct 4	18	18
072, 073, 074 Early	Oct 1 - Oct 20	10	10
072, 073, 074 Late	Nov 21 - Jan 1	10	10
076, 077, 079, 081 Early	Oct 1 - Oct 20	15	10
076, 077, 079, 081 Late	Dec 5 - Jan 1	15	10
078, 107 Early	Sept 21 - Oct 4	8	8
105, 106, 109 Early	Sept 21 - Oct 4	1	1
078, 105 - 107, 109 Late	Nov 21 - Jan 1	8	8
104, 108 ^B , 121 Early	Sept 25 - Oct 4	10	6
104, 108 ^B , 121 Late	Dec 5 - Jan 1	10	4
111, 112 Early	Sept 25 - Oct 4	13	15
111, 112 Late	Dec 5 - Jan 1	13	15
113 Early	Sept 25 - Oct 4	4	6
113 Late	Dec 5 - Jan 1	2	6
114, 115 Early	Sept 25 - Oct 4	16	17
114, 115 Late	Dec 5 - Jan 1	16	17
161 - 164	Dec 5 - Jan 1	25	15
221 Early	Sept 25 - Oct 4	4	18
221 Late	Dec 5 - Jan 1	4	14
222, 223 Early	Sept 25 - Oct 4	25	20
222, 223 Late	Dec 5 - Jan 1	25	20
231 Early	Sept 25 - Oct 4	7	9
231 Late	Dec 5 - Jan 1	10	9
TOTAL		279	276

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

**Resident Elk - Antlerless
Any Legal Weapon Hunt 4181**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071 Early	Sept 17 - Oct 4	112	130
061, 071 Late	Nov 6 - Jan 1	110	130
062 Early	Sept 17 - Oct 4	80	75
062, 066 ^A Late	Nov 6 - Jan 1	70	70
072, 073, 074 Early	Oct 1 - Oct 20	106	90
075 Early	Oct 1 - Oct 20	12	14
072 - 075 Late	Nov 21 - Jan 1	96	80
076, 077, 079, 081 Early	Oct 1 - Oct 20	112	85
076, 077, 079, 081 Late	Dec 5 - Jan 1	90	65
078, 107 Early	Sept 21 - Oct 4	75	70
105, 106, 109 Early	Sept 21 - Oct 4	9	8
078, 105 - 107, 109 Late	Nov 21 - Jan 1	30	45
091 Early*	Aug 1 - Aug 18	5	5
091 Late*	Oct 7 - Nov 1	5	5
104, 108 ^B , 121 Early	Sept 25 - Oct 4	75	40
104, 108 ^B , 121 Late	Dec 5 - Jan 1	16	16
108 ^C , 131, 132	Sept 25 - Oct 4	31	20
111, 112 Early	Sept 25 - Oct 4	26	35
111, 112 Late	Dec 5 - Jan 1	36	40
113 Early	Sept 25 - Oct 4	8	15
113 Late	Dec 5 - Jan 1	12	10
113 N ^D	Jan 2 - Jan 31	7	6
114, 115 Early	Sept 25 - Oct 4	40	45
114, 115 Late	Dec 5 - Jan 1	55	65
161 - 164 Early	Oct 1 - Oct 20	35	20
161 - 164 Late	Dec 5 - Jan 1	50	30
221 Early	Sept 25 - Oct 4	17	35
221 Late	Dec 5 - Jan 1	18	25
222, 223 Early	Sept 25 - Oct 4	38	55
222, 223 Late	Dec 5 - Jan 1	30	50
231 Early	Sept 25 - Oct 4	40	40
231 Late	Dec 5 - Jan 1	65	50
241, 242	Oct 1 - Oct 20	10	10
TOTAL		1,521	1,479

* Interstate hunt with Utah. Nevada and Utah hunters may hunt within open units in both states. Nevada hunters hunting in Utah must abide by Utah regulations.

^A That portion of Unit 066 east and north of the South Fork of the Owyhee River.

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

^D That portion of Unit 113 north of White Pine County Road 35.

**Nonresident Elk - Antlerless
Any Legal Weapon Hunt 4281**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071 Early	Sept 17 - Oct 4	18	15
061, 071 Late	Nov 6 - Jan 1	17	15
062	Sept 17 - Oct 4	9	8
062, 066 ^A Late	Nov 6 - Jan 1	7	8
072, 073, 074 Early	Oct 1 - Oct 20	11	10
072 - 075 Late	Nov 21 - Jan 1	10	9
076, 077, 079, 081 Early	Oct 1 - Oct 20	12	9
076, 077, 079, 081 Late	Dec 5 - Jan 1	10	7
078, 107 Early	Sept 21 - Oct 4	8	8
105, 106, 109 Early	Sept 21 - Oct 4	1	1
078, 105 - 107, 109 Late	Nov 21 - Jan 1	3	5
104, 108 ^B , 121 Early	Sept 25 - Oct 4	8	4
104, 108 ^B , 121 Late	Dec 5 - Jan 1	2	2
108 ^C , 131, 132	Sept 25 - Oct 4	3	2
111, 112 Early	Sept 25 - Oct 4	3	3
111, 112 Late	Dec 5 - Jan 1	4	4
113 Early	Sept 25 - Oct 4	1	2
113 Late	Dec 5 - Jan 1	1	1
113 N ^D	Jan 2 - Jan 31	1	1
114, 115 Early	Sept 25 - Oct 4	4	5
114, 115 Late	Dec 5 - Jan 1	6	7
161 - 164 Early	Oct 1 - Oct 20	4	2
161 - 164 Late	Dec 5 - Jan 1	5	3
221 Early	Sept 25 - Oct 4	2	4
221 Late	Dec 5 - Jan 1	2	3
222, 223 Early	Sept 25 - Oct 4	4	6
222, 223 Late	Dec 5 - Jan 1	3	6
231 Early	Sept 25 - Oct 4	4	4
231 Late	Dec 5 - Jan 1	7	5
TOTAL		170	159

^A That portion of Unit 066 east and north of the South Fork of the Owyhee River.

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

^D That portion of Unit 113 north of White Pine County Road 35.

**Resident Elk - Antlerless
Muzzleloader Hunt 4176**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
072, 073, 074	Sept 17 - Sept 30	11	8
075	Sept 17 - Sept 30	3	2
076, 077, 079, 081	Sept 17 - Sept 30	45	14
078, 105 - 107, 109	Aug 16 - Aug 31	25	25
104, 108 ^B , 121	Sept 17 - Sept 24	25	3
108 ^C , 131, 132	Sept 17 - Sept 24	7	2
111, 112	Sept 17 - Sept 24	7	4
113	Sept 17 - Sept 24	2	3
114, 115	Sept 17 - Sept 24	14	10
161 - 164	Aug 25 - Sept 16	7	2
221 - 223	Sept 17 - Sept 24	25	13
231	Sept 17 - Sept 24	15	6
241, 242	Aug 25 - Sept 16	2	2
TOTAL		188	94

^B That portion of Unit 108 north of the Falcon to Gonder powerline.

^C That portion of Unit 108 south of the Falcon to Gonder powerline.

**Nonresident Elk -Antlerless
Muzzleloader Hunt 4276**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
072, 073, 074	Sept 17 - Sept 30	1	1
076, 077, 079, 081	Sept 17 - Sept 30	4	1
078, 105 - 107, 109	Aug 16 - Aug 31	3	2
104, 108 ^A , 121	Sept 17 - Sept 24	3	1
108 ^B , 131, 132	Sept 17 - Sept 24	1	1
111, 112	Sept 17 - Sept 24	1	1
113	Sept 17 - Sept 24	1	1
114, 115	Sept 17 - Sept 24	2	1
161 - 164	Aug 25 - Sept 16	1	1
221 - 223	Sept 17 - Sept 24	2	1
231	Sept 17 - Sept 24	2	1
TOTAL		21	12

^A That portion of Unit 108 north of the Falcon to Gonder powerline.

^B That portion of Unit 108 south of the Falcon to Gonder powerline.

**Resident Elk - Antlerless
Archery Hunt 4111**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071	Aug 1 - Aug 15	60	35
062	Aug 1 - Aug 15	40	16
072, 073, 074	Aug 1 - Aug 24	25	16
075	Aug 1 - Aug 24	1	2
076, 077, 079, 081	Aug 1 - Aug 24	55	13
078, 105 - 107, 109	Aug 1 - Aug 15	14	20
104, 108 ^A , 121	Aug 1 - Aug 24	19	4
108 ^B , 131, 132	Aug 1 - Aug 24	9	2
111, 112	Aug 1 - Aug 24	11	8
113	Aug 1 - Aug 24	3	6
114, 115	Aug 1 - Aug 24	11	18
161 - 164	Aug 1 - Aug 24	30	4
221 - 223	Aug 1 - Aug 24	25	25
231	Aug 1 - Aug 24	19	4
241, 242	Aug 1 - Aug 24	2	2
TOTAL		324	175

^A That portion of Unit 108 north of the Falcon to Gonder powerline.

^B That portion of Unit 108 south of the Falcon to Gonder powerline.

**Nonresident Elk - Antlerless
Archery Hunt 4211**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
061, 071	Aug 1 - Aug 15	9	5
062	Aug 1 - Aug 15	4	2
072, 073, 074	Aug 1 - Aug 24	3	2
076, 077, 079, 081	Aug 1 - Aug 24	6	1
078, 105 - 107, 109	Aug 1 - Aug 15	2	2
104, 108 ^A , 121	Aug 1 - Aug 24	2	1
108 ^B , 131, 132	Aug 1 - Aug 24	1	1
111, 112	Aug 1 - Aug 24	1	1
113	Aug 1 - Aug 24	1	1
114, 115	Aug 1 - Aug 24	1	2
161 - 164	Aug 1 - Aug 24	3	1
221 - 223	Aug 1 - Aug 24	2	2
231	Aug 1 - Aug 24	2	1
TOTAL		37	22

^A That portion of Unit 108 north of the Falcon to Gonder powerline.

^B That portion of Unit 108 south of the Falcon to Gonder powerline.

Resident Elk - Antlerless
Any Legal Weapon Depredation Hunt 4107

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
081 ^A 1st*	Aug 1 - Aug 24	20	19
081 ^A 2nd*	Sept 17 - Sept 30	20	19
081 ^A 3rd*	Oct 1 - Oct 20	20	19
081 ^A 4th*	Dec 5 - Jan 1	20	18
101 - 103*	Aug 1 - Jan 1	150	150
114 ^B , 115 ^B - Ag Lands - 1st	Aug 1 - Aug 15	10	10
114 ^B , 115 ^B - Ag Lands - 2nd	Aug 16 - Aug 31	10	10
114 ^B , 115 ^B - Ag Lands - 3rd	Sept 1 - Sept 30	10	10
114 ^B , 115 ^B - Ag Lands - 4th	Oct 1 - Oct 31	10	10
114 ^B , 115 ^B - Ag Lands - 5th	Nov 1 - Nov 30	10	10
121 ^C 1st*	Aug 1 - Aug 31	15	15
121 ^C 2nd*	Sept 1 - Sept 30	10	10
121 ^C 3rd*	Oct 1 - Jan 1	5	5
144, 145 Early*	Aug 1 - Sept 30	5	5
144, 145 Late*	Oct 1 - Jan 1	5	5
TOTAL		320	320

* Low elk numbers in the area. Depredation Hunts are intended to drastically reduce elk numbers from this Unit Group. Poor hunter success expected.

^A That portion of Unit 081 within Elko County bounded on the west by the Fall Creek Road, on the north by the Idaho state line, on the east by the Utah state line, and on the south by the Signboard Pass-Thousand Springs Road and by State Route No. 233 from Montello to the Utah state line.

^B Within 2 miles of designated Granite Peak Ranch and Great Basin Ranch Properties in Hunt Unit 115 and within 2 miles of designated Baker Ranch Properties in Hunt Units 114 and 115. Hunt boundaries terminate at the Nevada state line where applicable.

^C Those portions of Elko County southeast of the Cherry Creek Road and southwest of U.S. Highway 93, and that portion of White Pine County west of U.S. Highway 93, north of White Pine County Road 27 (Bassett Lake Rd.), and east of White Pine County Road 27 to its junction with White Pine County Road 18 to its junction with White Pine County Road 23 (bench road from Bassett Lake Rd to the town of Cherry Creek) to State Highway 489 0.2 miles east to its junction with White Pine County Road 25 to the Elko County Line.

**Resident Nelson (Desert) Bighorn Sheep
Any Ram - Any Legal Weapon Hunt 3151**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
045	Sept 15 - Oct 15	1	2
131, 132, 164	Nov 20 - Jan 1	1	2
134, 251	Nov 20 - Jan 1	2	3
161 Early	Sept 10 - 30	2	4
161 Late	Oct 21 - Dec 1	2	4
163, 162	Nov 20 - Jan 1	1	1
173 North ^A	Aug 15 - Jan 1	1	1
173 South ^B	Nov 20 - Jan 1	2	2
181 East ^C	Nov 20 - Jan 1	3	12
181 West ^D	Nov 20 - Jan 1	2	8
182, 044	Nov 20 - Jan 1	6	8
183, 153	Nov 20 - Jan 1	8	8
184	Oct 15 - Nov 15	6	5
202	Oct 15 - Nov 15	3	3
204	Oct 15 - Nov 15	2	1
205	Nov 20 - Jan 1	5	6
206, 208	Nov 20 - Jan 1	4	4
207	Oct 15 - Nov 15	2	3
211	Nov 20 - Jan 1	4	8
213	Nov 20 - Jan 1	3	2
223, 221	Nov 20 - Jan 1	1	2
241	Nov 20 - Jan 1	4	4
243	Nov 20 - Jan 1	6	5
244	Nov 20 - Jan 1	3	3
245, 133	Nov 20 - Jan 1	2	3
253	Nov 20 - Jan 1	5	4
254	Nov 20 - Jan 1	3	3
261	Nov 20 - Jan 1	3	2
262	Nov 20 - Jan 1	2	3
263	Nov 20 - Jan 1	6	5
264, 265, 266	Nov 20 - Jan 1	2	2
267	Nov 20 - Jan 1	6	8
268	Nov 20 - Jan 1	33	33
271, 242**	Nov 20 - Jan 1	4	4
272	Nov 20 - Jan 1	1	1
280***	Dec 21 - Jan 5	5	5
281***	Dec 21 - Jan 5	4	4
282***	Dec 21 - Jan 5	1	0
283, 284	Nov 20 - Jan 1	2	3
286	Nov 20 - Jan 1	3	2
	TOTAL	156	186

^A That portion of Unit 173 north and west of the Seyler Reservoir/Peavine Creek/Gabbs Valley Pole Line Roads.

^B That portion of Unit 173 south and east of the Seyler Reservoir/Peavine Creek/Gabbs Valley Pole Line Roads.

^C 181 East - That portion of Unit 181 east of State Route 839

^D 181 West - That portion of Unit 181 west of State Route 839

* There are portions of Unit 181 in Naval Air Station (NAS) Fallon where public access is restricted. To hunt in the NAS portions of Unit 181, the tagholder is required to attend a NAS hunter safety briefing.

** Mature ram numbers and distribution are unknown in this unit.

*** Portions of Hunt Units 252, 280, 281, and 282 are within the Nevada Test and Training Range (NTTR) where public access is restricted. Hunters and everyone in their respective hunting parties, must comply with all Nevada hunting requirements and all NTTR safety and security requirements including the following: 1) consent to and pass a criminal history background check, 2) be at least 14 years old on opening day of the respective hunting season, 3) attend the Nellis Air Force Base hunter safety briefing, and 4) within the NTTR Hunt Units 252, 280, 281, and 282 limit party size to 5 including tagholder. Additional party members may complete background check and safety briefing, but only maximum of 5 party members including tagholder may be present within the NTTR Hunt Units 252, 280, 281, and 282 at any given time.

***Hunters and members of their parties who fail to comply with these requirements may be denied access to the NTTR. Hunters and members of their parties may not access the NTTR after a tag is filled and animal has been removed and in possession of tagholder. No pets are allowed on NTTR. It is the hunter's responsibility to meet and/or comply with all NTTR eligibility requirements. In some units there may be adjustments to season dates to accommodate Department of Defense operations. The Nevada Board of Wildlife Commissioners hereby delegates authority to the Nevada Department of Wildlife to adjust season dates to accommodate Department of Defense operations so long as there is no change to the overall length of the season.

Nonresident Nelson (Desert) Bighorn Sheep Any Ram - Any Legal Weapon Hunt 3251

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
181 East ^C	Nov 20 - Jan 1	1	<i>1</i>
181 West ^D	Nov 20 - Jan 1	1	<i>1</i>
182, 044	Nov 20 - Jan 1	1	<i>1</i>
183, 153	Nov 20 - Jan 1	1	<i>1</i>
184	Oct 15 - Nov 15	1	<i>1</i>
205	Nov 20 - Jan 1	1	<i>1</i>
211	Nov 20 - Jan 1	1	<i>1</i>
213	Nov 20 - Jan 1	1	<i>1</i>
253	Nov 20 - Jan 1	1	<i>1</i>
263	Nov 20 - Jan 1	1	<i>1</i>
267	Nov 20 - Jan 1	1	<i>1</i>
268	Nov 20 - Jan 1	5	<i>5</i>

283, 284	Nov 20 - Jan 1	1	1
	TOTAL	17	21

* There are portions of Unit 181 in Naval Air Station (NAS) Fallon where public access is restricted. To hunt in the NAS portion of Unit 181, the tag holder is required to attend a NAS hunter safety briefing.

^C181 East - That portion of Unit 181 east of State Route 839

^D181 West - That portion of Unit 181 west of State Route 839

**Resident Nelson (Desert) Bighorn Sheep
Any Ram - Archery Hunt 3161**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
182, 044	Sept 15 - Oct 14	1	1
202	Sept 15 - Oct 14	1	1
211	Oct 1 - Oct 31	1	1
213	Oct 1 - Oct 31	1	1
267	Oct 1 - Oct 31	1	1
	TOTAL	5	7

**Resident Nelson (Desert) Bighorn Sheep
Management Ram - One Horn* - Any Legal Weapon Hunt 3171**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
223, 245, 133	Jan 5 - Feb 20	1	1
253, 254, 261	Jan 5 - Feb 20	2	2
262, 263, 264, 265, 266	Jan 5 - Feb 20	3	3
267, 268	Jan 5 - Feb 20	4	4
	TOTAL	10	12

*The shortest horn must be less than half the length of the longest horn.

*Management Ram Hunt - 1) a separate hunt category, 2) no bonus points awarded to unsuccessful applicants per NAC 502.4187, and 3) a once-in-a-lifetime hunt based on successfully drawing a tag and therefore has no waiting period eligibility.

**Resident Nelson (Desert) Bighorn Sheep - Any Ram
Management Ram - Access Limited* - Any Legal Weapon Hunt 3172**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
173 North ^A	Aug 15 - Jan 1	5	4

^A173 North - Restricted to that portion of Unit 173 within the Arc Dome Wilderness boundary and north of the wilderness boundary from the crest to the east base of the Toiyabe Range, beginning with the North Twin River drainage north to the Summit Creek drainage.

* 1) a separate hunt category, 2) no bonus points awarded to unsuccessful applicants per NAC 502.4187, 3) a once-in-a-lifetime hunt based on successfully drawing a tag and therefore has no waiting period eligibility.

**Resident Nelson (Desert) Bighorn Sheep
Any Ewe - Any Legal Weapon Hunt 3181**

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
268	Oct 20 - Nov 15	54	<u>36</u>
	TOTAL	54	<u>81</u>

**Nonresident Nelson (Desert) Bighorn Sheep
Any Ewe - Any Legal Weapon Hunt 3281**

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
268	Oct 20 - Nov 15	6	<u>4</u>
	TOTAL	6	<u>9</u>

**Resident California Bighorn Sheep
Any Ram - Any Legal Weapon Hunt 8151**

Unit Group	2024-2025 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
012	Sept 1 - Oct 31	3	<u>1</u>
022*	Sept 1 - Oct 31	3	<u>2</u>
031^A	Sept 1 - Oct 31	4	<u>5</u>
032 ^B	Sept 1 - Oct 31	4	<u>5</u>
033, 032 ^C	Sept 1 - Oct 31	3	<u>2</u>
034	Sept 1 - Oct 31	5	<u>5</u>
035 ^D	Sept 1 - Oct 31	7	<u>6</u>
035^E	Sept 1 - Oct 31	1	
051	Sept 1 - Oct 31	2	<u>2</u>
068	Sept 1 - Oct 31	5	<u>5</u>
	TOTAL	37	<u>33</u>

*Access to public land to hunt bighorn sheep is limited across private land.

^A That portion of Unit 031 south of State Route 293/Thacker Pass Road (**Allows hunting in the Double H Mountains but excludes the Montana Mountains**).

^B This unit excludes that portion of Unit 032 west of the Craine Creek/Knott Creek Ranch Road and south of State Route No. 140 (**Allows hunting in Pine Forest Range and Pueblo Mountains but excludes McGee Mountain**).

^C This unit includes that portion of Unit 032 west of the Craine Creek/Knott Creek Ranch Road and south of State Route No. 140 (**Allows hunting in Unit 033 and McGee Mountain of Unit 032**).

^D That portion of Unit 035 west of the Bottle Creek Road from the north boundary of State Route 140 to the south boundary of the Jungo railroad crossing (**Allows hunting in Jackson Mountains**).

^E That portion of Unit 035 east of the Bottle Creek Road from the north boundary of State Route 140 to the south boundary of the Jungo Road and west of U.S. Highway 95 (Allows hunting in Bloody Run Hills and Slumbering Hills).

**Nonresident California Bighorn Sheep
Any Ram - Any Legal Weapon Hunt 8251**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
032 ^B	Sept 1 - Oct 31	1	1
034	Sept 1 - Oct 31	1	1
035 ^D	Sept 1 - Oct 31	1	1
068	Sept 1 - Oct 31	1	1
	TOTAL	4	4

^B This unit excludes that portion of Unit 032 west of the Craine Creek/Knott Creek Ranch Road and south of State Route No.140 (Allows hunting in Pine Forest Range and Pueblo Mountains but excludes McGee Mountain).

^D That portion of Unit 035 west of the Bottle Creek Road from the north boundary of State Route 140 to the south boundary of the Jungo railroad crossing (Allows hunting in Jackson Mountains).

**Resident Rocky Mountain Bighorn Sheep
Any Ram - Any Legal Weapon Hunt 9151**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
102	Sept 1 - Oct 31	2	1
115 ^{*A}	Nov 15 - Feb 20	1	1
	TOTAL	3	2

^A That portion of Unit 115 outside of the Great Basin National Park.

*Pursuant to NAC 502.405, the deadline for submitting the tagholder's big game hunt questionnaire is February 28.

**Resident Mountain Goat
Any Goat - Any Legal Weapon Hunt 7151**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
101	Sept 1 - Oct 31	1	1
102	Sept 1 - Oct 31	12	10
103	Sept 1 - Oct 31	1	1
	TOTAL	14	12

**Nonresident Mountain Goat - Any Goat
Any Legal Weapon Hunt 7251**

Unit Group	2024-2025 Season	2024 Quota Recommended	2023 Quota Approved
102	Sept 1 - Oct 31	1	1

**Resident Junior Mule Deer - Primitive Antlered Only
Archery or Muzzleloader 1105**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
014	Aug 10 - Sept 9 Sept 10 - Oct 4	2	--
065	Aug 10 - Sept 9 Sept 10 - Oct 4	6	--
081	Nov 10 - Nov 20 Nov 21 - Dec 10	7	--
114, 115	Aug 10 - Sept 9 Sept 10 - Oct 4	15	--
131 - 134	Aug 10 - Sept 9 Sept 10 - Oct 4	15	--
194, 196	Aug 10 - Sept 9 Sept 10 - Oct 4	10	--
221 - 223	Aug 10 - Sept 9 Sept 10 - Oct 4	20	--
241 - 245	Aug 10 - Sept 9 Sept 10 - Oct 4	10	--
TOTAL		85	

**Resident Junior Mule Deer - Antlered ONLY
Any Legal Weapon Hunt 1106**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
014	Oct 5 - Nov 5	3	--
065	Oct 5 - Nov 5	4	--
081	Dec 11 - Jan 1	10	--
114, 115	Oct 5 - Nov 2	30	--
131 - 134	Oct 5 - Oct 31	25	--
194, 196	Nov 5 - Nov 30	10	--
221 - 223	Oct 5 - Oct 31	25	--
241 - 245	Oct 5 - Oct 31	15	--
TOTAL		122	

**Resident Junior Mule Deer - Antlered ONLY
Archery, Muzzleloader, or Any Legal Weapon Hunt 1107**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
011 - 013	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	15	15
015	Aug 10 - Sept 9 Sept 10 - Oct 4 Dec 11 - Jan 1	3	3
021	Dec 1 - Dec 10 Dec 11 - Dec 20 Dec 21 - Jan 1	9	7
022	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	20	15

031	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	45	30
032	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	20	15
033	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	6	5
034	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	4	4
035	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	10	15
041, 042	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	10	10
043, 044, 046	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	20	25
045	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	10	10
051	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 5	50	50
061, 062, 064, 066-068	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	210	340
071 - 079, 091	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	310	260
101 - 109	Aug 10 - Sept 9 Sept 10 - Sept 30 Oct 1 - Nov 2	230	400
111 - 113	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	110	55
121	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	70	15
141 - 145	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	130	70
151 - 156	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	170	90
161 - 164	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	45	30
171 - 173	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	170	120
181 - 184	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	60	40

192	Aug 10 - Sept 9 Sept 10 - Oct 4 Nov 5 - Nov 30	15	25
195	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	4	10
201, 204	Nov 5 - Nov 30 Dec 1 - Dec 15 Dec 16 - Jan 1	8	6
202, 205 - 208	Nov 5 - Nov 30 Dec 1 - Dec 15 Dec 16 - Jan 1	20	20
203*	Aug 10 - Sept 9 Nov 5 - Nov 30	15	15
211 - 213	Aug 10 - Sept 9 Sept 10 - Oct 10 Nov 5 - Nov 30	10	10
231	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Oct 31	30	40
251 - 254	Aug 10 - Sept 9 Sept 10 - Oct 4 Oct 5 - Nov 2	5	5
261 - 268	Aug 10 - Sept 9 Sept 10 - Oct 4 Nov 5 - Nov 30	20	20
271, 272	Aug 10 - Sept 9 Sept 10 - Oct 4 Nov 5 - Nov 30	8	8
291	Aug 10 - Sept 9 Sept 10 - Oct 4 Nov 5 - Nov 30	25	25
TOTAL		1,887	1,808

* Special firearm restrictions apply, see NAC 503.170.

**Resident Mule Deer - Antlered
Any Legal Weapon Hunt 1331**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011 - 013	Oct 5 - Nov 5	36	35
014	Oct 5 - Nov 5	9	8
015	Dec 11 - Jan 1	10	10
021	Dec 21 - Jan 1	28	20
022	Oct 5 - Nov 2	41	35
031	Oct 5 - Nov 5	86	85
032	Oct 5 - Nov 5	43	40
033	Oct 5 - Nov 5	20	15
034	Oct 5 - Nov 5	15	20
035	Oct 5 - Nov 5	30	30
041, 042	Oct 5 - Nov 5	10	8

043, 044, 046	Oct 5 - Nov 5	65	65
045	Oct 5 - Nov 5	20	20
051	Oct 5 - Nov 5	110	140
061, 062, 064, 066-068 Early	Oct 5 - Oct 20	794	800
061, 062, 064, 066-068 Late	Oct 21 - Nov 5	90	90
065	Oct 5 - Nov 5	20	20
071 - 079, 091 Early	Oct 5 - Oct 20	705	550
071 - 079, 091 Late	Oct 21 - Nov 5	81	140
081	Dec 11 - Jan 1	30	30
101 - 109 Early	Oct 1 - Oct 16	450	450
101 - 109 Mid	Oct 17 - Oct 30	450	450
101 - 109 Late	Oct 31 - Nov 8	111	100
111 - 113 Early	Oct 5 - Oct 20	250	170
111 - 113 Late	Oct 21 - Nov 5	25	10
114, 115 Early	Oct 5 - Oct 20	65	65
114, 115 Late	Oct 21 - Nov 5	5	5
115	Dec 1 - Dec 15	5	5
121 Early	Oct 5 - Oct 20	130	40
121 Late	Oct 21 - Nov 5	15	5
131 - 134 Early	Oct 5 - Oct 20	65	25
131 - 134 Late	Oct 21 - Nov 5	9	3
141 - 145 Early	Oct 5 - Oct 20	350	200
141 - 145 Late	Oct 21 - Nov 5	35	20
151 - 156 Early	Oct 5 - Oct 20	340	247
151 - 156 Late	Oct 21 - Nov 5	35	25
161 - 164 Early	Oct 5 - Oct 20	140	90
161 - 164 Late	Oct 21 - Nov 5	15	15
171 - 173 Early	Oct 5 - Oct 16	310	270
171 - 173 Mid	Oct 17 - Oct 30	240	190
171 - 173 Late	Oct 31 - Nov 8	55	30
181 - 184	Oct 5 - Nov 5	161	130
192	Nov 5 - Nov 30	40	55
194, 196	Nov 5 - Nov 30	30	35
195	Oct 5 - Nov 2	20	15
201, 204	Nov 5 - Nov 30	20	20
202, 205 - 208	Nov 5 - Nov 30	40	45
203*	Nov 5 - Nov 30	40	25
211 - 213	Nov 5 - Nov 30	15	15
221 - 223 Early	Oct 5 - Oct 20	150	80
221 - 223 Late	Oct 21 - Nov 5	8	6
231	Oct 5 - Oct 31	62	45
241 - 245	Oct 5 - Oct 31	45	45
251 - 254	Oct 5 - Nov 2	10	10
261 - 268	Nov 5 - Nov 30	30	40
271, 272	Nov 5 - Nov 30	15	15
291	Nov 5 - Nov 30	45	55
TOTAL		6,074	5,212

* Special firearm restrictions apply, see NAC 503.170.

**Resident Mule Deer - Antlered
Muzzleloader Hunt Resident 1371**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011 - 013	Sept 10 - Oct 4	5	4
014	Sept 10 - Oct 4	5	2
015	Sept 10 - Oct 4	1	5
021	Dec 11 - Dec 20	4	5
022	Sept 10 - Oct 4	6	5
031	Sept 10 - Oct 4	15	4
032	Sept 10 - Oct 4	10	4
033	Sept 10 - Oct 4	3	5
034	Sept 10 - Oct 4	3	2
035	Sept 10 - Oct 4	5	2
041, 042	Sept 10 - Oct 4	5	5
043, 044, 046	Sept 10 - Oct 4	20	20
045	Sept 10 - Oct 4	10	10
051	Sept 10 - Oct 4	20	15
061, 062, 064, 066 - 068	Sept 10 - Oct 4	150	60
065	Sept 10 - Oct 4	3	5
071 - 079, 091	Sept 10 - Oct 4	140	50
081	Nov 21 - Dec 10	4	8
101 - 109	Sept 10 - Sept 30	200	98
111 - 113	Sept 10 - Oct 4	35	16
114, 115	Nov 10 - Nov 30	25	25
121	Sept 10 - Oct 4	20	7
131 - 134	Sept 10 - Oct 4	10	3
141 - 145	Sept 10 - Oct 4	70	15
151 - 156	Sept 10 - Oct 4	50	15
161 - 164	Sept 10 - Oct 4	30	7
171 - 173	Sept 10 - Oct 4	110	60
181 - 184	Nov 10 - Nov 30	15	9
192	Sept 10 - Oct 4	15	15
194, 196	Sept 10 - Oct 4	4	5
195	Sept 10 - Oct 4	3	5
201, 204	Dec 1 - Dec 15	2	1
202, 205 - 208	Dec 1 - Dec 15	5	7
211 - 213	Sept 10 - Oct 10	5	3
221 - 223	Sept 10 - Oct 4	20	4
231	Sept 10 - Oct 4	15	5
241 - 245	Sept 10 - Oct 4	6	3
251 - 254	Sept 10 - Oct 4	5	2
261 - 268	Sept 10 - Oct 4	15	8
271, 272	Sept 10 - Oct 4	8	8

291	Sept 10 - Oct 4	7	3
TOTAL		1,084	535

**Resident Mule Deer - Antlered
Archery Hunt 1341**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011 – 013	Aug 10 - Sept 9	15	15
014	Aug 10 - Sept 9	4	2
015	Aug 10 - Sept 9	2	3
021	Dec 1 - Dec 10	20	15
022	Aug 10 - Sept 9	15	6
031	Aug 10 - Sept 9	31	9
032	Aug 10 - Sept 9	30	20
033	Aug 10 - Sept 9	15	7
034	Aug 10 - Sept 9	6	8
035	Aug 10 - Sept 9	20	20
041, 042	Aug 10 - Sept 9	15	15
043, 044, 046	Aug 10 - Sept 9	45	50
045	Aug 10 - Sept 9	15	15
051	Aug 10 - Sept 9	50	30
061, 062, 064, 066 - 068	Aug 10 - Sept 9	350	210
065	Aug 10 - Sept 9	4	5
071 – 079, 091 Early	Aug 10 - Sept 9	300	190
071 – 079, 091 Late	Nov 10 - Nov 20	20	20
081 Early	Aug 10 - Sept 9	4	3
081 Late	Nov 10 - Nov 20	4	3
101 – 109 Early	Aug 10 - Sept 9	400	460
101 – 109 Late	Nov 10 - Nov 20	15	20
111 - 113	Aug 10 - Sept 9	96	25
114, 115	Aug 10 - Sept 9	70	70
121 Early	Aug 10 - Sept 9	35	9
121 Late	Nov 10 - Nov 20	10	5
131 - 134	Aug 10 - Sept 9	25	4
141 - 145	Aug 10 - Sept 9	170	140
151 - 156	Aug 10 - Sept 9	130	110
161 - 164	Aug 10 - Sept 9	56	25
171 - 173	Aug 10 - Sept 9	300	260
181 - 184	Aug 10 - Sept 9	61	35
192 Early	Aug 10 - Sept 9	10	15
192 Late	Dec 1 - Jan 1	10	20
194, 196 Early	Aug 10 - Sept 9	7	4
194, 196 Late	Dec 1 - Jan 1	7	15
195	Aug 10 - Sept 9	3	5
201, 202, 204 - 208 Early	Aug 10 - Sept 9	8	10
201, 204 Late	Dec 16 - Jan 1	9	10

202, 205 - 208 Late	Dec 16 - Jan 1	10	10
203 Early	Aug 10 - Sept 9	15	15
203 Late	Dec 16 - Jan 1	15	15
211 - 213	Aug 10 - Sept 9	5	3
221 - 223	Aug 10 - Sept 9	50	15
231	Aug 10 - Sept 9	32	15
241 - 245	Aug 10 - Sept 9	15	5
251 - 254	Aug 10 - Sept 9	5	5
261 - 268	Aug 10 - Sept 9	15	8
271, 272	Aug 10 - Sept 9	8	8
291	Aug 10 - Sept 9	20	15
TOTAL		2,577	2,002

**Nonresident Mule Deer - Antlered
Any Legal Weapon Hunt 1332**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011 - 013	Oct 5 - Nov 5	2	2
014	Oct 5 - Nov 5	1	1
015	Dec 11 - Jan 1	1	1
021	Dec 21 - Jan 1	2	1
022	Oct 5 - Nov 2	2	2
031	Oct 5 - Nov 5	6	5
032	Oct 5 - Nov 5	3	2
033	Oct 5 - Nov 5	1	1
034	Oct 5 - Nov 5	1	1
035	Oct 5 - Nov 5	2	2
041, 042	Oct 5 - Nov 5	2	2
043, 044, 046	Oct 5 - Nov 5	4	4
045	Oct 5 - Nov 5	2	2
051	Oct 5 - Nov 5	6	9
061, 062, 064, 066-068 Early	Oct 5 - Oct 20	60	40
061, 062, 064, 066-068 Late	Oct 21 - Nov 5	7	3
065	Oct 5 - Nov 5	2	2
071 - 079, 091 Early	Oct 5 - Oct 20	63	25
071 - 079, 091 Late	Oct 21 - Nov 5	4	6
081	Dec 11 - Jan 1	2	1
101 - 109 Early	Oct 1 - Oct 16	42	25
101 - 109 Mid	Oct 17 - Oct 30	35	7
101 - 109 Late	Oct 31 - Nov 8	7	4
111 - 113 Early	Oct 5 - Oct 20	20	10
111 - 113 Late	Oct 21 - Nov 5	2	1
114, 115 Early	Oct 5 - Oct 20	6	6
114, 115 Late	Oct 21 - Nov 5	2	2
115	Dec 1 - Dec 15	2	2
121 Early	Oct 5 - Oct 20	10	3

121 Late	Oct 21 - Nov 5	2	2
131 - 134 Early	Oct 5 - Oct 20	4	2
131 - 134 Late	Oct 21 - Nov 5	1	1
141 - 145 Early	Oct 5 - Oct 20	30	9
141 - 145 Late	Oct 21 - Nov 5	4	1
151 - 156 Early	Oct 5 - Oct 20	25	24
151 - 156 Late	Oct 21 - Nov 5	3	2
161 - 164 Early	Oct 5 - Oct 20	10	5
161 - 164 Late	Oct 21 - Nov 5	1	2
171 - 173 Early	Oct 5 - Oct 16	25	20
171 - 173 Mid	Oct 16 - Oct 30	20	15
171 - 173 Late	Oct 31 - Nov 8	2	2
181 - 184	Oct 5 - Nov 5	10	8
192	Nov 5 - Nov 30	3	4
194, 196	Nov 5 - Nov 30	1	2
195	Oct 5 - Nov 2	2	2
201, 204	Nov 5 - Nov 30	1	1
202, 205 - 208	Nov 5 - Nov 30	4	4
203*	Nov 5 - Nov 30	2	2
211 - 213	Nov 5 - Nov 30	2	2
221 - 223 Early	Oct 5 - Oct 20	10	3
221 - 223 Late	Oct 21 - Nov 8	3	2
231	Oct 5 - Oct 31	5	4
241 - 245	Oct 5 - Oct 31	3	2
251 - 254	Oct 5 - Nov 2	1	1
261 - 268	Nov 5 - Nov 30	3	3
271, 272	Nov 5 - Nov 30	2	2
291	Nov 5 - Nov 30	3	4
TOTAL		481	303

* Special firearm restrictions apply, see NAC 503.170.

**Nonresident Mule Deer - Antlered
Muzzleloader Hunt 1372**

Unit Group	2024 Season	2024 Quota Recommended	2023 Quota Approved
011 - 013	Sept 10 - Oct 4	1	1
014	Sept 10 - Oct 4	1	1
015	Sept 10 - Oct 4	1	1
021	Dec 11 - Dec 20	1	1
022	Sept 10 - Oct 4	1	1
031	Sept 10 - Oct 4	1	1
032	Sept 10 - Oct 4	1	1
033	Sept 10 - Oct 4	1	1
034	Sept 10 - Oct 4	1	1
035	Sept 10 - Oct 4	1	1
041, 042	Sept 10 - Oct 4	2	2

043, 044, 046	Sept 10 - Oct 4	2	1
045	Sept 10 - Oct 4	2	2
051	Sept 10 - Oct 4	2	1
061, 062, 064, 066 - 068	Sept 10 - Oct 4	16	5
065	Sept 10 - Oct 4	1	2
071 - 079, 091	Sept 10 - Oct 4	15	4
081	Nov 21 - Dec 10	1	2
101 - 109	Sept 10 - Oct 4	20	6
111 - 113	Sept 10 - Oct 4	4	1
114, 115	Nov 10 - Nov 30	2	2
121	Sept 10 - Oct 4	2	1
131 - 134	Sept 10 - Oct 4	1	1
141 - 145	Sept 10 - Oct 4	8	1
151 - 156	Sept 10 - Oct 4	1	1
161 - 164	Sept 10 - Oct 4	3	1
171 - 173	Sept 10 - Oct 4	10	7
181 - 184	Nov 10 - Nov 30	2	1
192	Sept 10 - Oct 4	2	2
194, 196	Sept 10 - Oct 4	1	1
195	Sept 10 - Oct 4	1	1
201, 204	Dec 1 - Dec 15	1	1
202, 205 - 208	Dec 1 - Dec 15	2	2
211 - 213	Sept 10 - Oct 10	1	1
221 - 223	Sept 10 - Oct 4	2	1
231	Sept 10 - Oct 4	2	1
241 - 245	Sept 10 - Oct 4	1	1
251 - 254	Sept 10 - Oct 4	1	1
261 - 268	Sept 10 - Oct 4	2	2
271, 272	Sept 10 - Oct 4	1	1
291	Sept 10 - Oct 4	2	1
TOTAL		123	67

**Nonresident Mule Deer - Antlered
Archery Hunt 1342**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
011 – 013	Aug 10 - Sept 9	2	1
014	Aug 10 - Sept 9	1	1
015	Aug 10 - Sept 9	1	1
021	Dec 1 - Dec 10	2	1
022	Aug 10 - Sept 9	2	1
031	Aug 10 - Sept 9	3	1
032	Aug 10 - Sept 9	4	2
033	Aug 10 - Sept 9	1	1
034	Aug 10 - Sept 9	1	1
035	Aug 10 - Sept 9	2	2

CR 24-12, Recommended Big Game Quotas

041, 042	Aug 10 - Sept 9	2	2
043, 044, 046	Aug 10 - Sept 9	5	5
045	Aug 10 - Sept 9	2	1
051	Aug 10 - Sept 9	5	3
061, 062, 064, 066 - 068	Aug 10 - Sept 9	40	20
065	Aug 10 - Sept 9	1	1
071 – 079, 091 Early	Aug 10 - Sept 9	35	20
071 – 079, 091 Late	Nov 10 - Nov 20	2	2
081 Early	Aug 10 - Sept 9	1	1
081 Late	Nov 10 - Nov 20	1	1
101 – 109 Early	Aug 10 - Sept 9	45	45
101 – 109 Late	Nov 10 - Nov 20	2	2
111 - 113	Aug 10 - Sept 9	10	3
114, 115	Aug 10 - Sept 9	7	7
121 Early	Aug 10 - Sept 9	4	1
121 Late	Nov 10 - Nov 20	1	1
131 - 134	Aug 10 - Sept 9	3	1
141 - 145	Aug 10 - Sept 9	20	15
151 - 156	Aug 10 - Sept 9	15	10
161 - 164	Aug 10 - Sept 9	6	3
171 - 173	Aug 10 - Sept 9	30	25
181 - 184	Aug 10 - Sept 9	7	4
192 Early	Aug 10 - Sept 9	1	1
192 Late	Dec 1 - Jan 1	1	2
194, 196 Early	Aug 10 - Sept 9	1	1
194, 196 Late	Dec 1 - Jan 1	2	1
195	Aug 10 - Sept 9	1	1
201, 202, 204 - 208 Early	Aug 10 - Sept 9	1	1
201, 204 Late	Dec 16 - Jan 1	1	1
202, 205 - 208 Late	Dec 16 - Jan 1	1	1
203 Early	Aug 10 - Sept 9	2	2
203 Late	Dec 16 - Jan 1	2	2
211 - 213	Aug 10 - Sept 9	1	1
221 - 223	Aug 10 - Sept 9	5	1
231	Aug 10 - Sept 9	3	1
241 - 245	Aug 10 - Sept 9	2	1
251 - 254	Aug 10 - Sept 9	1	1
261 - 268	Aug 10 - Sept 9	2	2
271, 272	Aug 10 - Sept 9	1	1
291	Aug 10 - Sept 9	2	2
TOTAL		293	208

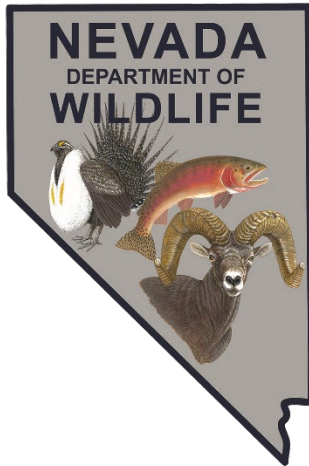
**Resident Moose - Antlered
Any Legal Weapon Hunt 10151**

Unit Group	2024 Season	2024 Quota Recommended	<i>2023 Quota Approved</i>
061, 062, 064, 066 - 068, 071 - 077, 081, 101 - 103*	Sept 1 - Nov 30	2	<i>NEW HUNT</i>

***A person who harvests a moose shall, within 5 days after harvesting it, personally present the skull and any antlers of the moose, if applicable, to a representative of the Department for inspection (CGR 514, LCB File No. R22-23P)**

**Resident and Nonresident Mule Deer and Antelope
Landowner Compensation Tags**

% of Total 2023 Deer and Antelope Quotas for Landowner Compensation Tags	2.5%
TOTAL # OF DEER AND ANTELOPE LANDOWNER COMPENSATION TAGS	421
Total # of 2024 Mule Deer and Pronghorn Tags	16,851



2024-2025 Pronghorn Quota Recommendation Forms
(Accompanies Commission Regulation 24-12)

Pronghorn Quota Recommendation Form

Unit Group: 011

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	11	64	386	90	551	19	23	600	22
2022-2023	6	24	125	63	218	24	50	650	20
2023-2024	16	70	303	101	490	28	33	650	22

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	13%	DNH	0%		74%	80%					14%
2022-2023	20%	0%	0%		82%	100%					22%
2023-2024	0%	0%	33%		58%	0%					21%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	5	1	2	--	35	4	--	--	--	0	0
2023-2024	5	1	4	--	20	2	--	--	--	0	0
2024-2025	20	2	12	--	25	2	--	--	--	0	0
Tag Trend	INC	INC	INC	=	INC	=	=	=	=	=	=

Quota Rationale

Two years of good fawn recruitment and improved habitat conditions, has lead to another year of an increased population estimate for hunt unit 011. Hunt success remains stable, and the 15" or better metric seems to be rebounding. Due to the high buck ratio and increase in population size, NDOW recommends a moderate increase in tags for 011.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 012-014

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	11	45	249	86	391	22	35	1,800	24
2022-2023	14	46	202	93	355	30	46	1,700	28
2023-2024	39	68	388	144	639	28	37	1,600	26

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	26%	67%	63%	100%	60%	55%				50%	9%
2022-2023	33%	0%	25%	0%	47%	54%				100%	12%
2023-2024	27%	100%	20%	100%	48%	73%				100%	11%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR	RES	Combined	
2022-2023	10	2	5	1	120	15	--	--	--	1	0
2023-2024	15	1	5	1	120	15	--	--	--	1	0
2024-2025	27	3	10	1	122	15	--	--	--	1	0
Tag Trend	INC	INC	INC	=	INC	=	=	=	=	=	=

Quota Rationale

The pronghorn population in unit grouping 012-014 remains stable at an estimate of 1,600. Success rates for the unit grouping remain stable, although they're lower than the statewide average. Managing this unit grouping for a post hunt adult buck ratio of 25 adult bucks to 100 does results in a recommendation for similar tags as last year. Last year there were two deferred resident archery tags, and two deferred ALW tags which were added to this years quota.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 015

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	6	31	136	51	224	27	38	1,000	26
2022-2023	13	21	109	62	205	31	57	1,000	25
2023-2024	29	55	260	132	476	32	51	1,000	25

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	20%	67%	10%		45%	43%					7%
2022-2023	25%	0%	50%		69%	100%					11%
2023-2024	13%	0%	30%		69%	80%					9%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR	RES	Combined	
2022-2023	15	1	10	--	55	6	--	--	--	0	0
2023-2024	15	1	10	--	60	7	--	--	--	0	0
2024-2025	26	3	10	--	65	7	--	--	--	0	0
Tag Trend	INC	INC	=	=	INC	=	=	=	=	=	=

Quota Rationale

The pronghorn herd in hunt unit 015 remains stable with a population estimate of 1,000. Hunt unit 015 has benefitted from three years of quality fawn ratios and multiple years of high buck ratios observed on surveys. As a result, NDOW recommends increasing the quotas for the unit. Last year there was one deferred archery tag which was added to this year's quota.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 021, 022

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	5	21	100	22	148	26	22	600	20
2022-2023	--	--	--	--	--	--	--	600	21
2023-2024	18	51	203	70	342	34	34	600	23

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	60%	0%	50%		88%	50%				100%	22%
2022-2023	80%	0%	100%		85%	100%					39%
2023-2024	0%	0%	50%		82%	100%				100%	16%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR	RES	Combined	
2022-2023	5	1	2	--	35	4	--	--	--	1	0
2023-2024	5	1	2	--	40	4	--	--	--	2	0
2024-2025	10	1	3	--	46	5	--	--	--	1	0
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	DEC	=

Quota Rationale

The pronghorn herd in hunt unit grouping 021,022 remains stable. The unit grouping has experienced high success rates for three consecutive years and a high buck ratio was observed on this years survey. As a result, NDOI is recommending a slight increase in tags for the unit grouping. Last year there was one deferred resident ALW tag which was added to this years quota.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 031

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	2	7	30	15	54	30	50	1,200	30,21
2022-2023	2	12	44	31	89	32	70	1,200	33,24
2023-2024	18	69	198	78	363	44	39	1,200	35,27

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	21	0			58	57			10	100	4
2022-2023	29	0	100	0	63	90			0	100	11
2023-2024	20	0	0	0	68	67			0	100	13

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	9	1	1	0	90	10			10	1	0
2023-2024	6	1	1	1	90	10			0	2	0
2024-2025	25	3	7	1	92	10			0	2	0
Tag Trend	INC	INC	INC	=	INC	=	=	=	=	=	=

Quota Rationale

Unit 031 saw a significant increase in the number of animals surveyed. We are starting to see a slight rebound in the population after the doe harvest was discontinued. Buck ratios are up and had a slight decrease in the fawn ratios. Despite being lower than previous years it was still high at 40 fawns per 100. Yearling bucks in the survey made up 20% of all the bucks surveyed in this unit. Due to the increase in the population and the new fixed demands, the primitive weapon classes are seeing increases. Success rates have increased with the any legal weapon class which will equate to the same number of tags recommended.

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 032,034

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	6	16	107	30	159	21	28	1,100	23
2022-2023	4	30	135	75	244	25	56	1,000	25
2023-2024	23	61	258	110	452	33	43	1,000	28

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	14	13	50		46	80			15	80	30
2022-2023	0	50	50		58	50				100	21
2023-2024	14	50	0		58	100				100	15

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	20	2	1	0	40	4				2	0
2023-2024	20	2	1	0	40	4				9	0
2024-2025	20	2	7	0	40	4				0	0
Tag Trend	=	=	INC	=	=	=	=	=	=	DEC	=

Quota Rationale

Unit 032-034 saw a significant increase in the number of animals surveyed. Population growth in this unit is slowly coming up after the last two winters. Buck ratios have increased from last year with 27% yearling bucks out of the total bucks surveyed. This should equate to upward trends soon. Success rates have remained static from last year and a slight drop in the 15" or better harvest. This year's hunt should be good, with the added moisture that has been received the last two years, providing ample forage for horn growth.

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 033

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	18	56	261	83	418	28	32	1,100	31
2022-2023	24	85	489	162	760*	22	33	1,000	35
2023-2024	66	119	541	153	879*	34	28	900	28

* Indicates comprehensive pre-hunt aerial survey flown by USFWS in July

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	29%	100%	0%		57%	75%	57%	50%			10%
2022-2023	67%	0%	50%		61%	0%	58%	100%			19%
2023-2024	33%	0%	0%		52%	0%	36%	0%			5%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	4	1	2	--	25	1	25	1	--		0
2023-2024	4	1	2	--	25	1	25	1	--		0
2024-2025	7	1	7	--	21	2	20	2	--		0
Tag Trend	INC	=	INC	=	DEC	INC	DEC	DEC	=	=	=

Quota Rationale

This year, pronghorn surveys were conducted by Sheldon National Wildlife Refuge in July, prior to the hunt. On survey, SNWR observed a low adult buck ratio on thier survey and hunters struggled quite a bit on the late hunt. As a result, NDOW is recommending a slight reduction of tags for hunt unit 033. Last year there was one deferred resident early ALW tag, and one nonresident ALW tag which were added to the quotas.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 035

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	6	16	107	30	159	21	28	550	16
2022-2023	4	30	135	75	244	25	56	500	20
2023-2024	23	61	258	110	452	33	43	500	21

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	0	0	100		80	100			9	100	12
2022-2023	100	100	0		69	100			0	100	11
2023-2024	0	100	100		75	100			0	100	28

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	4	1	2	0	25	1			0	4	0
2023-2024	1	1	2	0	25	1			0	7	0
2024-2025	4	1	3	0	25	3			0	4	0
Tag Trend	INC	=	INC	=	=	INC	=	=	=	DEC	=

Quota Rationale

Unit 035 had a little over double the number of animals in survey this year. The population seems to remain static, however, with the amount of forage available we should see good fawn recruitment this year. Both fawn and buck ratios have increased with 27% yearling bucks in the total buck populations. Horn length of 15" or better has increased over the last couple of years with this one being one of the higher years. With no more doe harvest in this unit we should start to see this population rebound. This year's hunt should provide ample opportunity for harvest.

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 041,042

Date Prepared: April 11 2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	6	43	165	47	261	30	28	1,300	29
2022-2023	28	57	298	123	506	29	41	1,300	29
2023-2024	19	30	137	49	235	36	36	1,300	30

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	78%	0%	67%		93%	67%	86%	100%	8		5%
2022-2023	67%	0%	100%		77%	33%	84%	100%			14%
2023-2024	20%	0%	0%		78%	100%	85%	100%			26%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR			
2022-2023	10	1	1		25	3	25	3		none	
2023-2024	7	1	2		20	2	20	2		none	
2024-2025	9	1	4		25	3	25	3			
Tag Trend	INC	=	INC	=	INC	INC	INC	INC	=	DEC	=

Quota Rationale

The 2023 population estimate remains 1,300. This herd had been on a sharp decline since 2019 when the population was estimated at 2,000 animals. The unit group's population trend is considered stable at this time. Recommend a post-season buck ratio objective of 25 bucks: 100 does, NDOW Harvest Guidelines recommends using a post season buck ratio range of 20-30 bucks: 100 does.

Reporting Biologist: Kyle Neill

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 043-046

Date Prepared: April 11 2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	51	238	786	289	1,364	37	37	1,900	33
2022-2023	14	368	997	323	1,702	38	32	2,300	34
2023-2024	17	461	1,125	395	1,998	42	35	2,500	36

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	40%	60%	80%	0%	91%	100%			24	100%	12%
2022-2023	33%	50%	33%	100%	94%	100%			43	100%	13%
2023-2024	41%	50%	100%	0%	83%	93%			37	100%	14%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	30	3	3	1	120	15			35	11	
2023-2024	20	2	5	1	130	15			50	17	
2024-2025	45	5	10	1	140	15			55	4	
Tag Trend	INC	INC	INC	=	INC	=	=	=	INC	DEC	=

Quota Rationale

Recommend a post-season buck ratio objective of 25 bucks: 100 does, NDOW Harvest Guidelines recommends using a post season buck ratio range of 20-30 bucks: 100 does. The 2024 population estimate of 2,500 antelope is 7% over what was reported last year. This herd has continued to perform extremely well. The horns shorter than ears hunt is designed for opportunity while allowing for growth. Recommend a 3% rate of doe kill, same as last year.

Reporting Biologist: Kyle Neill

Supervisor: Cooper Munson

Pronghorn Quota Recommendation Form

Unit Group: 051

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	7	36	93	40	176	46	43	700	20
2022-2023	8	31	107	65	211	36	61	700	19
2023-2024	20	41	103	54	218	59	52	750	23

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	21	25			84	83			0	100	12
2022-2023	29	50	0		84	100				100	11
2023-2024	18	0	100		77	60				50	28

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	20	2	1	0	35	3			0	5	0
2023-2024	20	2	1	0	45	5			0	3	0
2024-2025	20	2	7	0	50	5			0	1	0
Tag Trend	=	=	INC	=	INC	=	=	=	=	DEC	=

Quota Rationale

Unit 051 continues to do well with a slight increase in the population. Survey totals were equal to last year with good ratios for both bucks and fawns. Post seasons buck ratios were a little higher than our management objective which will be adjusted with a slight increase in the quota recommendation. There was 32% yearling bucks in the total number of bucks surveyed last year that should provide opportunity in the upcoming years. Success rates for this unit remain high with 28% 15" or better in the harvest. Moisture has aided with horn development and would predict see good growth this year as well.

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 181-184

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	7	52	160	37	256	37	23	1,300	37
2022-2023	14	59	191	60	324	38	31	1,300	34
2023-2024	18	38	240	86	382	23	36	1,400	32

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	50%	100%			95%	75%					22%
2022-2023	70%	DNH			96%	80%					19%
2023-2024	33%	DNH	50%		88%	83%					

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	10	1	1		55	5			20		
2023-2024	10	1	2		55	6			35		
2024-2025	10	1	2		71	7			40	16	
Tag Trend	=	=	=	=	INC	INC	=	=	INC	INC	=

Quota Rationale

NDOW harvest guidelines recommend a range of 20-30 bucks per 100 does. Raised the modeled population in 2024. Hunter success was high. Recommend increased tag quotas for 2024.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 202, 204

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022					0	--	--		42
2022-2023	3	8	33	11	55	33	33	100	27
2023-2024	5	8	45	11	69	29	24	80	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022					80%	100%					
2022-2023			0%		50%	0%					
2023-2024			0%		75%	0%					

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023			1		8	1					
2023-2024			1		8	1					
2024-2025			1		8	1					
Tag Trend	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

The Bodie herd is small less than 100 animals. Hunters are limited to a few areas to hunt. Recommend similar tags for 2024 to control congestion and increase hunter success.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 205-208

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	4	37	22	6	69	186	27	284	29
2022-2023	3	16	56	18	93	34	32	272	29
2023-2024	7	14	68	19	108	31	28	263	30

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	38%	0%			84%	100%					23%
2022-2023	29%	100%			100%	100%					26%
2023-2024	60%	0%			92%	100%					

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	10	2	1		15	2					
2023-2024	10	1	1		15	1					
2024-2025	10	1	2		15	2					
Tag Trend	=	=	INC	=	=	INC	=	=	=	=	=

Quota Rationale

High archery and rifle success rates can drive quotas down. The above tag quotas are reflected above. Also the number of bucks represented for harvest are 2+ year old bucks. The yearling bucks are taken out to allow for harvest of more mature bucks.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 203,291

Date Prepared: 3/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	3	27	71	13	114	42	18	150	43
2022-2023	3	23	40	14	80	65	35	180	36
2023-2024	8	32	87	26	153	46	30	180	34

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022					67%						
2022-2023	0%				67%						
2023-2024	0%		0%		78%						

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	2				10						
2023-2024	2		1		10						
2024-2025	2		2		8						
Tag Trend	=	=	INC	=	DEC	=	=	=	=	=	=

Quota Rationale

Used a post hunt buck ratio of 29 bucks/100 does. Last year overall hunter success for the early rifle resident tags was 78% compared to 67% the previous year.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 061, 062, 064, 071, 073

Date Prepared: 4/10/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	95	174	766	376	1,411	35	49	1,900	24
2022-2023	132	189	585	348	1,254	55	59	1,900	25
2023-2024	107	215	669	345	1,336	48	52	2,300	32

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	30	25	100	100	84	75			122	100	10
2022-2023	41	100	100	100	92	79			158	100	23
2023-2024	21	100	0		77	85			214	100	20

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	20	2	2	1	140	15			200	3	
2023-2024	15	1	1	1	150	20			230	7	
2024-2025	60	7	20	1	201	25			230	6	
Tag Trend	INC	INC	INC	=	INC	INC	=	=	=	DEC	=

Quota Rationale

The population estimate was increased for 2024 due to occurrences in recent years where the observed buck ratios were greater than modeled, which is often a sign of underestimation. The abundance of pronghorn observed on recent surveys, knowing there are large portions of pronghorn habitat that were not surveyed, lends confidence that this updated population estimate is reflective of what is likely on the landscape. Assuming average demographic rates, this recommended horns shorter than ears harvest will slow population growth while providing hunter opportunity. This population is at its peak and could be the source stock for potential translocation efforts within the state should those opportunities present themselves. The recommended increase of horns longer than ear tags targets the management objective of a post season 2-year-old plus buck to doe ratio of 25:100. The significant increase in recommended archery and muzzleloader resident quotas is due to the new "Fixed-Demand" percentage allocation. Unrounded quotas represent deferred tag(s) from 2023 added to the rounded quota recommendation.

Reporting Biologist: Allen

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 065, 142, 144

Date Prepared: 4/10/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		110	355	109	574	31	31	850	24
2022-2023		200	497	108	805	40	22	800	23
2023-2024		128	303	90	521	42	30	850	35

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	40	0	100		80	100			5	83	19
2022-2023	0	0	100		100	100			3	100	8
2023-2024	33	0	?		100	100			6	100	35

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	3	1	1		25	3			6	7	
2023-2024	3	1	1		25	3			6	7	
2024-2025	25	2	4		45	5			10	10	
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=

Quota Rationale

Fawn recruitment improved but is still below historic averages. We are recommending moderate increases in ALW tags and bigger increases in archery and muzzleloader based on fixed demand.

Reporting Biologist: Jeffress

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 066

Date Prepared: 4/9/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	n/a	n/a	n/a	n/a	0	--	--	400	n/a
2022-2023	n/a	n/a	n/a	n/a	0	--	--	450	n/a
2023-2024	n/a	n/a	n/a	n/a	0	--	--	400	n/a

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	60		50		72	67			7		25
2022-2023	0		67		92	100			6		15
2023-2024	25		20		77	100			5		43

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	5	0	3	0	25	3			10		
2023-2024	5	0	5	0	25	3			10		
2024-2025	4	0	2	0	30	3			10		
Tag Trend	DEC	=	DEC	=	INC	=	=	=	=	=	=

Quota Rationale

It is reasonable to suggest that this population is performing similarly to the neighboring 061 and 067 herds in terms of survival and productivity over recent years. Without survey or a population model, this recommendation is based of prior years harvest results. With elevated horns 15-inch or better percentage in 2023 this unit is above management objective of 25%, at 27%, and with near average any legal weapon success, horns longer than ears tags will increase slightly. The change in distribution of tags is due to the new "Fixed-Demand" percentage allocation.

Reporting Biologist: Allen

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 067, 068

Date Prepared: 4/10/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		183	552	200	935	33	36	1,000	21
2022-2023		320	687	264	1,271	47	38	1,300	39
2023-2024		275	485	189	949	57	39	1,400	34

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	28	75	50	100	81	83			53	66	22
2022-2023	15	50	33		87	67			60	100	22
2023-2024	20	100	33		80	100			43	66	28

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	15	2	3	1	65	7			85	3	
2023-2024	15	1	3	1	100	15			90	5	
2024-2025	55	6	20	1	130	15			56	6	
Tag Trend	INC	INC	INC	=	INC	=	=	=	DEC	INC	=

Quota Rationale

The population estimate was increased for 2024 due to the high number of pronghorn observed on February 2024 surveys compared to the previous years population estimate. This herd is managed to remain within the carrying capacity of compromised winter habitats, which is shared by a struggling mule deer herd, and to limit the risk of interactions with Interstate 80 which has no appropriate crossings and is perpendicularly bisecting terminal winter ranges. This herd is above the 2-year-old plus buck to doe ratio objective at 34:100, while horns 15-inch or better from harvest in 2023 has met the 3-year average management objective. This elevated buck ratio results in an increase in horns longer than ears tags. A similar desired doe kill will be targeted. However, due to high success of horns shorter than ear hunts it is an observed decrease in tags to get to the same outcome. Utilizing average demographic rates, these recommendations result in a population decline of 3%, but this decline will largely be from the male component of the population, reaching towards buck to doe management objective. Unrounded quotas represent deferred tag(s) from 2023 added to the rounded quota recommendation.

Reporting Biologist: Allen

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 072,074,075

Date Prepared: 4/8/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	33	32	250	95	410	26	38	1,100	25
2022-2023	61	54	312	118	545	37	38	1,100	25
2023-2024	13	48	158	69	288	39	44	1,200	22

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	24	33	100		74	100			42	100	18
2022-2023	22	67	100		83	86			32	100	16
2023-2024	25	33	100		77	57			32	0	21

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	35	4	1		90	10			55	3	
2023-2024	25	3	1		75	8			50	3	
2024-2025	20	2	2		46	5			30	0	
Tag Trend	DEC	DEC	INC	=	DEC	DEC	=	=	DEC	DEC	=

Quota Rationale

Low sample size on survey was correlated to tough survey conditions and more widely dispersed and smaller average group size. Harvest metrics remained around the 3 year average and 15" or greater trended slightly upward. This herd has experienced improved fawn recruitment allowing for growth in this herd. Horns shorter tags were lowered in an effort to allow for more growth on this herd. The buck quota is based of a post season objective of 25bucks:100 does. Buck tags were reduced likley due to prior years lowered fawn recruitments and less 2+ year old buck available to hunters.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 076,077,079,081,091

Date Prepared: 4/10/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	28	56	174	53	311	48	30	600	17
2022-2023	23	59	146	67	295	56	46	750	30
2023-2024	27	94	207	103	431	58	50	900	30

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	50		100		93	100			13		22
2022-2023	0		100		86	100			9		37
2023-2024	67		100		84	100			7		31

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	2		1		30	3			15		
2023-2024	3		1		50	5			15		
2024-2025	25		9		71	7			30		
Tag Trend	INC	=	INC	=	INC	INC	=	=	INC	=	=

Quota Rationale

Post season surveys yielded a near record sample size and another year of high fawn recruitment. This population was modeled up due to the post season buck ratio consistently being higher than the modeled. This population has now experienced 2 consecutive years of above average fawn recruitment and is steadily increasing. The 15 inch or better horn length remains above the statewide average. The quota is based on a post season buck ratio of 25 bucks:100 does. Improving fawn recruitment and continued herd growth has justified a slight increase in horns shorter tags.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 078, 105-107, 121

Date Prepared: 4/10/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		101	297	34	432	34	11	800	32
2022-2023		52	206	32	290	25	16	750	31
2023-2024		55	199	55	309	28	28	750	30

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	50	0	0		74	100			5	50	18
2022-2023	50	100		100	86	67			0	100	30
2023-2024	0	100	100	100	96	100			0	100	20

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	2	1	1	1	25	3			0	4	
2023-2024	1	1	2	1	25	3			1	2	
2024-2025	4	1	2	1	20	2			0	2	
Tag Trend	INC	=	=	=	DEC	DEC	=	=	DEC	=	=

Quota Rationale

While fawn recruitment improved this year, the herd has suffered from historically low fawn recruitment the previous four years. This herd is nearly half what it was ten years ago. The chronic low fawn recruitment the previous four years is what is driving the low quotas.

Reporting Biologist: Jeffress

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 101-104, 108, 109, and 144

Date Prepared: 4/5/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		175	481	112	768	36	23	925	30
2022-2023		74	182	50	306	41	27	850	27
2023-2024		152	312	81	545	49	26	975	32

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	42	50	67	100	85	88			25	71	20
2022-2023	0	0	50	100	87	75			15	100	21
2023-2024	75	0	0	100	91	100			9	100	17

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	7	1	2	1	50	5			15	1	0
2023-2024	5	1	1	1	35	4			15	3	0
2024-2025	20	2	10	1	60	6			7	2	0
Tag Trend	INC	INC	INC	=	INC	INC	=	=	DEC	DEC	=

Quota Rationale

Survey conditions were fair this year with a relative sample compared to the long term average. Long Valley was not surveyed due to inaccessibility and would have produced another couple hundred antelope. This is the 6th year in a row that fawn ratios are below maintenance levels. Slight modeling adjustments were made and the population was modeled up. With the buck ratio well above objective, an increase in buck quotas and a decrease in horns shorter quotas will be recommended this year. The quota recommendations are reflective of a stair step approach of a post hunt buck objective of 27 buck:100 does.

Reporting Biologist: Kirk

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 111-114

Date Prepared: 4/2/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		142	492	44	678	29	9	900	25
2022-2023		138	481	104	723	29	22	850	29
2023-2024		245	722	206	1,173	34	29	1,300	33

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	0	0	33	100	74	100			9		8
2022-2023	0	0	100	0	69	100			0		18
2023-2024	75	0	100	100	77	67			0		27

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	3	1	1	1	30	3	0	0	0		0
2023-2024	4	1	1	1	30	3	0	0	0		0
2023-2024	20	2	3	1	55	6	0	0	0		0
Tag Trend	INC	INC	INC	=	INC	INC	=	=	=	=	=

Quota Rationale

Fawn recruitment was severely depressed from 2018-2021. Population models and quotas were reduced to account for conditions and observations during that timeframe. Fawn recruitment has been slightly improved the last two years. The greatly improved sample size obtained in the winter of 2023-24 indicates that drought conditions from 2019-2022 and the winter of 2022-23 were less impactful than thought. The population estimate and quotas are increasing in 2024. The Quotas are based on a statewide post-hunt buck ratio objective of 27 bucks (≥2-year-old):100 does.

Horns shorter than ears season was closed in 2022.

Reporting Biologist: Menghini

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 131-145-163-164

Date Prepared: 4/5/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		31	181	8	220	17	4	400	16
2022-2023		38	192	40	270	20	21	450	21
2023-2024		47	160	48	255	29	30	460	20

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	40	100	0		80	100			16		15
2022-2023	0	0	0		100	100			2		11
2023-2024	0	0	0		50	100			1		0

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	1	1	1	0	10	1			2	2	0
2023-2024	1	1	1	0	3	1			1	0	0
2024-2025	3	1	1	0	6	1			0	0	0
Tag Trend	INC	=	=	=	INC	=	=	=	DEC	DEC	=

Quota Rationale

Survey conditions were ideal with a lot of time and effort put in to true up some red flags concerning the population contraction recently. On the survey, 255 antelope were classified yielding sex and age ratios of 29 bucks:100 does:30 fawns. Compared to last year's survey, this survey saw a favorable increase in the observed fawn to doe, and buck to doe ratios. The increase in fawn ratio can be attributed to the excellent range conditions throughout the unit group. In 2023, the harvest metric of horn length 15+ inches were reported at 0%, which is the lowest in the state. Due to the recent consecutive years of suppressed fawn recruitment, there is a minimal number of mature bucks on the landscape. Quota recommendations will show a slight increase in tags to maintain around the post hunt objective of 25 bucks:100 does.

Reporting Biologist: Ricketts

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 132-133-134-245

Date Prepared: 4/5/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		44	100	1	145	44	1	360	17
2022-2023		41	118	18	177	35	15	450	37
2023-2024		48	217	81	346	22	37	460	22

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	40	100	100		90	67				100	23
2022-2023	100	100	0		73	0					7
2023-2024	100	0	0		100	50					10

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	1	1	1	0	15	2			0	1	0
2023-2024	1	1	1	0	20	2			0	0	0
2024-2025	1	1	1	0	5	1			0	0	0
Tag Trend	=	=	=	=	DEC	DEC	=	=	=	DEC	=

Quota Rationale

This population estimate was modeled down this year to account for the low observed buck ratio. A lot of time and effort was put into the survey to true up some of the red flags from the recent severe population contraction. Survey conditions were good and 346 antelope were observed yielding sex and age ratios of 22 bucks:100 does:37 fawns. The buck ratio saw a considerable drop while the fawn ratio saw an increase compared to last year. This can be attributed to the favorable landscape conditions from the late spring and summer of 2023 and relatively mild winter of 2023-2024. The harvest metric of horn length 15+ inches was reported at 10%, which is below the statewide average of 20%. With the suppressed fawn recruitment the past couple years, there are very few mature bucks on the landscape and the unit group is well below management objective. Quota recommendations will show a decrease this year to work back towards the post hunt objective of 25 bucks:100 does.

Reporting Biologist: Ricketts

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 141, 143, 151-156

Date Prepared: 4/11/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022		404	780	298	1,482	52	38	4,200	19
2022-2023		271	500	263	1,034	54	53	4,500	29
2023-2024		581	949	413	1,943	61	44	5,300	35

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	19	40	57	100	86	89			273	100	9
2022-2023	32	33	71	100	86	95			315	100	18
2023-2024	14	0	50	100	78	82			338	100	22

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2022-2023	60	7	7	1	210	25			500	9	
2023-2024	35	4	2	1	250	30			550	6	
2024-2025	92	11	20	2	270	30			441	3	
Tag Trend	INC	INC	INC	INC	INC	=	=	=	DEC	DEC	=

Quota Rationale

This population continues to increase. The standard statewide management objective for the horns longer than ears quota is a post-hunt ratio of 25 adult bucks:100 does. Last year NDOW managed for a post-hunt ratio of 28 adult bucks:100 does to avoid a substantial increase in tags based on a large influx of 2-year-old bucks (from the high fawn ratio of 2020). The fawn ratio in 2020 paired with the continued high fawn ratios moving forward. NDOW has underestimated the amount of bucks on the landscape. We will continue to move toward our management objective in a conservative, incremental manner, so NDOW will be managing for a post-hunt ratio of 35 adult bucks:100 does. This quota recommendation should allow for a balance of opportunity as well as hunt quality. The 2023 season saw a 15" or better metric of 22 percent which is higher than the statewide average of 20 percent.

We will continue to use doe harvest to maintain this population's growth at a manageable level and to address crop depredation issues. In the 2024 NDOW is recommending a slight decrease in horns shorter than ears quota. This decrease is to provide the department for opportunity to transplant antelope to areas in the state with reduced populations.

Reporting Biologist: Shanks

Supervisor: Roberts

Pronghorn Quota Recommendation Form

Unit Group: 115, 231, 242

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	13	39	194	26	272	27	13	550	35
2022-2023	20	46	183	50	299	36	27	500	31
2023-2024	13	58	203	71	345	35	35	590	37

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	60%		100%		78%	60%				100%	21%
2022-2023	100%	0%	0%		100%	100%				100%	14%
2023-2024	75%	100%	100%		89%	50%				100%	24%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	2	1	1		30	3				5	
2023-2024	4	1	1		20	2			20	5	
2024-2025	6	1	6		35	4			20	2	
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	DEC	=

Quota Rationale

Two consecutive years of improved precipitation and high survey samples indicates that this population is on an upward trend and may have been underestimated in recent years. Winter and spring precipitation should allow does to enter the fawning period in good body condition and aid fawn survival in the coming months. The last two winters have the forage component looking strong. Both the trophy metrics and success rates remain high in this Area. The Department is recommending an increase in the quotas.

Reporting Biologist: Shanks

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 161, 162

Date Prepared: 3/14/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	6	22	102	8	138	27	8	350	39
2022-2023	5	13	134	20	172	13	15	320	27
2023-2024	4	9	79	23	115	16	29	340	22

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	11%	100%	0%		86%	100%				100%	18%
2022-2023	25%	0%	0%		77%	100%				100%	30%
2023-2024	67%	0%	67%		75%	100%				100%	21%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	5	1	3		30	3				4	
2023-2024	3	1	3		15	1				0	
2024-2025	4	1	4		15	1				1	
Tag Trend	INC	=	INC	=	=	=	=	=	=	DEC	=

Quota Rationale

Exceptional moisture in 2022 and 2023 has improved drought conditions which in-turn is mirrored in the increased fawn ratios observed on survey. The pronghorn that persist are outcompeted by feral equids near water sources in Stone Cabin Valley, Little Fish Lake Valley, and Monitor Valley. The observed buck ratio remains low, which could be a factor of survey timing. Low fawn ratios observed in 2020 and 2021 are being realized in the buck ratio. The Department recommends a similar quota to the previous year.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 171-173

Date Prepared: 3/14/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	12	28	114	19	173	35	17	330	37
2022-2023	5	7	82	17	111	15	21	310	29
2023-2024	6	17	175	69	267	13	39	400	21

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	67%	0%	80%		96%	100%				100%	10%
2022-2023	40%	100%	40%		95%	100%				100%	28%
2023-2024	50%	100%	33%		79%	100%				100%	32%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	5	1	5		25	2				3	
2023-2024	5	1	5		15	2				1	
2024-2025	5	1	5		15	2				1	
Tag Trend	=	=	=	=	=	=	=	=	=	DEC	=

Quota Rationale

Exceptional moisture in 2022 and 2023 has improved drought conditions which in-turn is mirrored in the increased fawn ratios observed on survey. Drought conditions over the past two years have impacted the trend of this population. Three years of prior poor fawn recruitment decreased the available bucks on the landscape. The observed buck ratio remains low, which could be a factor of survey timing. The survey sample size is significantly greater than the previous two years. An increase of modeled population size was warranted. The Department is recommending a similar quota to last year.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 211-213

Date Prepared: 3/21/2023

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	3	5	17	1	26	47	6	80	34
2022-2023	2	6	11	2	21	73	18	80	25
2023-2024					0	--	--	100	20

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	100%		100%		90%						9%
2022-2023	0%		0%		100%						60%
2023-2024	100%		100%		71%						14%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	1		1		6						
2023-2024	1		1		5						
2024-2025	1		1		6						
Tag Trend	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

The Area 21 pronghorn herd is highly dispersed and in low densities. This makes the population difficult to survey and model. The Department recommends a similar quota to the previous year.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 221-223, 241

Date Prepared: 3/28/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	3	18	51	9	81	41	18	400	30
2022-2023	19	36	188	38	281	29	20	400	31
2023-2024	8	40	141	49	238	34	35	450	31

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	14%		60%		78%	80%					5%
2022-2023	33%		100%		78%	50%				100%	18%
2023-2024	33%		0%		89%	100%					11%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	3		1		20	2				0	
2023-2024	3		1		20	2				2	
2024-2025	8		6		25	3				1	
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	DEC	=

Quota Rationale

Favorable precipitation and improved forage conditions over the last two years have resulted in higher fawn ratios. Although conditions are improving, Units 221-223 and 241 are still realizing the effects of depressed recruitment and quality metrics (i.e 15" or better) from drought years. Although drought conditions has impacted quality metrics the buck ratio has remained strong. The department is recommending a modest quota increase.

Reporting Biologist: Shanks

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 251

Date Prepared: 3/21/2024

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2021-2022	23	42	206	13	284	32	6	300	36
2022-2023	4	15	81	14	114	23	17	370	30
2023-2024	7	17	80	25	129	30	31	450	33

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2021-2022	80%		80%		100%	100%				100%	15%
2022-2023	60%		100%		86%	100%				100%	39%
2023-2024	100%		50%		93%	100%				100%	12%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

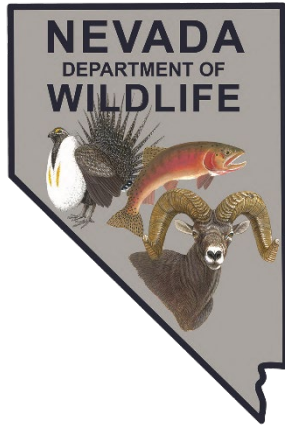
Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	Combined	
2022-2023	5		2		15	2				7	
2023-2024	1		2		15	1				10	
2024-2025	4		7		20	2				5	
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	DEC	=

Quota Rationale

The Unit 251 pronghorn herd has movements between the Unit 161, 162 population and the Nevada Test and Training Range (NTTR). These movements can be elevated with varying levels of precipitation and the need for proper forage. This year's survey resulted in an increase in observed fawn recruitment. The poor sample size is likely due improved range conditions and the dispersal of pronghorn. This year's quota recommendation will be slightly increased compared to previous years. Landowner tags are a large portion of the available tags and are considered in the quota recommendation process.

Reporting Biologist: Burkett

Supervisor: Bennett



**2024-2025 Elk Quota Recommendation Forms
(Accompanies Commission Regulation 24-12)**

Elk Quota Recommendation Form

Unit Group: 051

Date Prepared: April-2024

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			
2021-2022	2	28	10	40	7	36	100	50			25	100	1
2022-2023	7	20	9	36	35	45	115	33			50	100	1
2023-2024				0	--	--	120	100			50	100	0

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	
2022-2023			1		6				0											
2023-2024			1		1				0											
2024-2025			1		2				0											
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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L	
2022-2023					0				4											
2023-2024					0				0											
2024-2025					0				0											
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

This unit was not flown this year during the spring deer time frame. This populations remains the same with very little growth currently. Continued moisture over the last two years have helped forage in this area tremendously. This population may see small fluctuations in numbers depending on annual winter condition and the amount of available forage. Cow season will be closed for a second season allowing for this herd to grow slightly. The objective to maintain this herd remains at 200 animals.

Reporting Biologist: Partee

Supervisor: Munson

Elk Quota Recommendation Form

Unit Group: 061, 071

Date Prepared: 4/10/2024

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			
	2021-2022	533	1,230					566	2,329	43			
2022-2023	479	1,219	443	2,141	39	36	4,200 (1,400)	70		29	28	62	94
2023-2024	443	1,065	448	1,956	42	42	4,500 (1,500)	63		48	20	82	78

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
	2022-2023	25	3	8	1	18	2			25	3				4		4		
2023-2024	13	1	6	1	15	2			25	3				5	0	5			6
2024-2025	17	2	5	1	11	1			18	2				5		5			6
Tag Trend	INC	INC	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
	2022-2023	45	7			125	18			110	16				0	0	0		
2023-2024	35	5			130	15			130	15				0	0	0			
2024-2025	60	9			112	18			110	17									
Tag Trend	INC	INC	=	=	DEC	INC	=	=	DEC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

The 061, 071 elk population estimate has increased slightly since 2023. During the winter, Nevada elk migrate into Idaho where they mix with resident Idaho elk on winter range, which is considered the Metta Population, whose larger population is estimated in the Herd & Harvest table above. 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, bracketed (1,500) above. Antlerless harvest recommendations will decrease slightly to allow for some amount of population growth, but still provide hunter opportunity. The increase in archery for both sexes, is a product of the new "Fixed-Demand" percentage allocation. Decreasing from 2023, the 50-inch main beam or better harvest metric has dropped 8%, which results in a below management objective 3-year average of 25%-35%. Recommended bull tag quotas will decrease again in 2024 to continue working towards main beam objectives. Unrounded quotas represent deferred tag(s) from 2023 added to the rounded quota recommendation.

Reporting Biologist: Allen

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 062, 064, 066-068

Date Prepared: 4/10/2024

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			
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
2023-2024	87	563	225	875	15	40	875 (525)	38		n/a	43	67	42

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
2022-2023	1	1	2	1	13	1			12	1				2		2			
2023-2024	6	1	3	1	30	3			0	0				18		0			
2024-2025	5	1	2	1	30	3								18					
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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023	10	1			75	8			0	0				0	0	0			
2023-2024	16	2			75	8			70	8				0	0	0			
2024-2025	40	4			80	9			70	7									
Tag Trend	INC	INC	=	=	INC	INC	=	=	=	DEC	=	=	=	=	=	=	=	=	=

Quota Rationale

The 062, 064, 066-068 elk has reached population objective of 500 individuals. The recent closure of antlerless elk hunts in units 064, 066-068 was 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 while eliminating pressure on the southern sub-herd. The objective is a more even distribution of elk across the unit group. So far, this is working to allow for population expansion in southern elk sub-herds, as survey suggests an increasing southern sample size each year. However, aggressive cow harvest is still necessary in the northern sub-herd to remain within population objective, which is reflected in the antlerless recommendation. The increase in antlerless archery is a product of the new "Fixed-Demand" percentages. 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 management objectives at 31%, which justifies bull tag recommendations to remain relatively stable.

Reporting Biologist: Allen

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 072,073,074

Date Prepared: 4/10/2024

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			
	2021-2022	88	121					62	271	73			
2022-2023	174	227	167	568	77	74	1,300	33		35	24	75	34
2023-2024				0	--	--	1,300	49		41	16	65	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
	2022-2023	35	4	10	1	55	6			55	6				12		12		
2023-2024	14	2	7	1	50	5			50	5				10		10			9
2024-2025	30	4	6	1	36	3			36	3				10		10			7
Tag Trend	INC	INC	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
	2022-2023	8	2	9	2	50	5			40	4							3	
2023-2024	16	2	8	1	90	10			80	9									
2024-2025	25	3	11	1	106	11			96	10									
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

This unit group was not surveyed this year. 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. This herd has historically had high calf ratios, so, antlerless elk tags will be increased this year to slow herd growth as this herd increases in size and approaches population objective.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 075

Date Prepared: 4/10/2024

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			
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
2023-2024				0	--	--	1,300	50		67	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	
2022-2023	3		1		6	1			5	1										9
2023-2024	3		1		8	1			6	1										7
2024-2025	4		1		8	2			6	2										7
Tag Trend	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023	2		2		6				40	4				0	0	0			
2023-2024	2		2		14				80	9				0	0	0			
2024-2025	1		3		12				96	10				0	0	0			
Tag Trend	DEC	=	INC	=	DEC	=	=	=	INC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

This unit was not surveyed this year. The 3-year average bull harvest metric of 50+ inch main beam length is within objective but continues to trend upward. Early season antlerless quotas are designed to keep this herd stable and within the individual Unit 075 population objective of 100 adult elk. The increase in late season antlerless quotas is designed to target migrating elk from the 072-sub herd and to slow the herd growth in this sub herd as it approaches population objective. 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: Ellingwood

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 076,077,079,081

Date Prepared: 4/10/2024

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			
2021-2022	298	649	317	1,264	46	49	1,200	67		57	24	72	91
2022-2023				0	--	--	1,250	77		71	30	68	118
2023-2024	221	641	418	1,280	34	65	1,250	64		57	18	68	126

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
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
2024-2025	25	3	15	2	51	6			55	6				15		15			35
Tag Trend	INC	INC	INC	INC	DEC	DEC	=	=	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
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						
2024-2025	55	6	45	4	112	12			90	10	20	20	20						
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	INC	INC	INC	INC	DEC	=	=	=	=	=	=

Quota Rationale

Surveys conducted in this unit group this year produced a record calf ratio and a sample size near the population objective. A portion of the sample size is understood to be migratory elk from Idaho, however this herd looks to be experiencing steady growth and is at or slightly over the current population objective. Antlerless elk tags quotas are increasing to keep this herd within the population objective. The 3-year average 50+ inch main beam percentage harvest metric is just below the objective of 25-35%. As a result, bull quota recommendations for the 2024-2025 season will see a reduction.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 078, 105-107, and 109

Date Prepared: 4/2/2024

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			
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
2023-2024	29	111	49	189	26	44	700	71		58	38	83	78

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
2022-2023	10	1	13	1	19	3			19	2				19					
2023-2024	10	2	13	1	20	2			20	2				8, 1		8			
2024-2025	10	2	9	2	19	2			20	2				8, 1		8			
Tag Trend	=	=	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023	20	3	15	3	80				55										
2023-2024	20	2	25	2	70, 8	8, 1			45	5									
2024-2025	14	2	25	3	75, 9	8, 1			30	3									
Tag Trend	DEC	=	=	INC	INC	=	=	=	DEC	DEC	=	=	=	=	=	=	=	=	=

Quota Rationale

The 2023 hunting season was the first to offer split any legal weapon early spike and antlerless hunts in Units 078 and 107 and Units 105, 106, and 109. In concert with the successful late season antlerless hunts that were established in 2022, the new hunt strategy allowed for focused harvest on those elk that have sought private land refuge the past decade while allowing for less pressure on those elk residing exclusively on public land. A record number of tags were issued for this unit group during the 2023 hunting season, which resulted in a record total harvest of 122 elk. An aerial survey was conducted in January 2024, where 189 elk were classified, yielding sex and age ratios of 26 bulls:100 cows:44 calves. The any legal weapon antlerless season structure and recommended tag quota will be similar to last year to continue to put heavy pressure on cows in Units 078 and 107 in hope to restore some balance to the elk use throughout the rest of the unit group. 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 remains stable and within objective.

Reporting Biologist: Kirk

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 091

Date Prepared: 4/10/2024

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			
2021-2022	38	66	20	124	58	30	390	73			22	63	19
2022-2023				0	--	--	360	100			13	80	7
2023-2024				0	--	--	350	81			0	57	8

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
2022-2023	4				12														2
2023-2024	4				12														2
2024-2025	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023					5				5										
2023-2024					5				5										
2024-2025					5				5										
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

No survey was conducted in 2023. 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 management objective. Due to conflicting management objectives quotas will remain the same as last year. Continued coordination with Utah to reach more mutually agreeable management objective for this interstate herd will take place in 2024.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 104, 108 and 121

Date Prepared: 4/2/2024

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			
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
2023-2024	84	243	113	440	35	47	920	56		58	30	56	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
2022-2023	11	1	18	2	40	5			40	6				15					2
2023-2024	14	2	10	1	40	7			40	6				6		4			2
2024-2025	15	2	10	1	41	5			40	5				10		10			2
Tag Trend	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
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						
2024-2025	19	2	25	3	75	8			16	2	15	10	5						
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

During the 2024 aerial survey, 440 elk were classified, yielding sex and age ratios of 35 bulls:100 cows:47 calves. Calf and bull ratios are above the 5-yr average of 29 bulls:100 cows:38 calves, respectively. The 3-year average of 50-inch main beam percent harvest metric remains stable and within objective, with 56% of bulls harvested this season being 6 point or better. Hunter success on the early and late rifle hunts yielded similar success, but at a reduced rate compared to last year. The current population estimate is stable and at objective. Quota recommendations will show an increase in antlerless and spike hunts to maintain the population at objective with the above average calf recruitment and another anticipated large calf crop this year. Quota recommendations will remain similar to last year in respect to antlered hunts.

Reporting Biologist: Ricketts

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 131,132,108B

Date Prepared: 4/2/2024

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			
	2021-2022	39	112					21	172	35			
2022-2023	42	108	39	189	39	36	310		56		34	64	5
2022-2023				0	--	--	320	40		29	57	87	12

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
	2022-2023	5	1	7				60	7										
2023-2024	7	1	4		35	4			24	3									
2024-2025	6	1	8		30	3			25	3									
Tag Trend	DEC	=	INC	=	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
	2022-2023	2	2	2	2	10	2												
2023-2024	2	1	2	1	20	2													
2024-2025	9	1	7	1	31	3													
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

There was no aerial survey conducted this year due to weather conflicts and a shortened flight schedule statewide. The current population estimate is stable and within objective. Harvest metrics of 50-in main beam yielded the highest percentage in the state at 57% which is substantially above the statewide average of 29% for the 2023 hunting season. Several years of low calf recruitment, stemming from drought conditions will result in a gap of age structure for a cohort of older age class bulls. With the above average calf recruitment and an anticipated large calf crop again this year, an increase in antlerless tags will be recommended to maintain the population at objective. The 2024 antlered quota recommendations will be near the total quota from last year. A comprehensive aerial survey will be prioritized this year.

Reporting Biologist: Ricketts

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 111-115

Date Prepared: 4/2/2024

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			
	2021-2022	348	713					191	1,252	49			
2022-2023	217	521	177	915	42	34	2,300	64		62	41	76	172
2023-2024	232	759	312	1,303	31	41	2,300	75		58	36	75	139

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
	2022-2023	25	3	20	2	80	9			80	9		25		20		20	11	0
2023-2024	30	3	27	3	60	6			60	7		25		38		38	3	0	9
2024-2025	25	3	16	2	55	6			62	7		25		33		31			11
Tag Trend	DEC	=	DEC	DEC	DEC	=	=	=	INC	=	=	=	=	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
	2022-2023	27	6	27	6	110	13			115	13		100						
2023-2024	32	4	17	3	95	10			130	13		50							
2024-2025	25	3	23	4	74	8			103	11		50							
Tag Trend	DEC	DEC	INC	INC	DEC	DEC	=	=	DEC	DEC	=	=	=	=	=	=	=	=	=

Quota Rationale

The antlered elk harvest metrics for Percent 6-pt and Percent 50" Main Beam or Better remain solid at 75% and 40% (3-year average), respectively. However, the Percent 50" Main Beam or Better is trending down in the last 3 years. As a result, antlered quotas recommendations are slightly decreasing. 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. During the calendar years of 2022 and 2023, the collared cow elk spent 53% and 36%, respectively, of their time in Nevada. Model adjustments were made to remove elk that are not in Nevada in response to the collaring effort. Antlerless quotas are designed to hold the population at a stable level.

Recommendation for 113N hunt (not included above) is 7 resident tags, 1 nonresident tag

Reporting Biologist: Menghini

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 161-164

Date Prepared: 3/14/2024

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			
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	34	59	13
2022-2023	51	290	139	480	18	48	725		43	22	21	57	9

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		
2022-2023	13	1	6	1	6	1	35	3	35	4				10					
2023-2023	6	1	4	1	0	0	30	3	35	4				15					
2023-2024	7	1	9	1	0	0	30	3	36	3				25					
Tag Trend	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023	5	2	4	2	40	4			55	6							2		
2023-2023	4	1	2	1	20	2			30	3									
2024-2025	30	3	7	1	35	4			50	5									
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

The Area 16 elk population has struggled with drought conditions and competition with feral equid herds. Exceptional precipitation patterns in 2022 and 2023 have reversed this trend. 2024 aerial surveys observed a calf ratio of 48, a dramatic increase from the two previous years. The decrease in antlerless quota in recent years is achieving the goal of reducing antlerless harvest and increasing the elk population to the Area's objective of 850 elk. However, due to high recruitment the Department is recommending a modest increase in antlerless quotas in 2024. It is important to note that although there was a slight drop in the 50-inch main beam metric, many bulls that were harvested fell just slightly below the 50-inch cut-off. The Butler Basin fence enclosure project will improve mesic habitat by excluding feral equids. Hopefully, these enclosures will increase elk use of this basin.

Reporting Biologist: Burkett

Supervisor: Bennett

Elk Quota Recommendation Form

Unit Group: 221-223

Date Prepared: 4/2/2024

Population Objective: 1750 +/-20% (1,400-2,100)

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			
	2021-2022	141	428					90	659	33			
2022-2023	151	412	167	730	37	41	1,700	77		60	40	68	63
2023-2024	98	412	203	713	24	49	1,800	57		42	45	80	78

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
	2022-2023	30	3	16	2	65	8			65	8				21		20	6	0
2023-2024	35	3	22	3	70	7			70	8				38		34	5	1	6
2024-2025	36	4	25	3	72	9			87	9				29		29			19
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=	=	=	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
	2022-2023	25	2	13	2	70	8	NA	NA	60	6							7	
2023-2024	25	2	13	1	90	10	NA	NA	75	9									
2024-2025	25	2	25	2	55	6	NA	NA	48	5									
Tag Trend	=	=	INC	INC	DEC	DEC	=	=	DEC	DEC	=	=	=	=	=	=	=	=	=

Quota Rationale

The antlered elk harvest metrics for Percent 6-pt and Percent 50" Main Beam or Better are 80% and 45%, respectively. The Percent 50" Main Beam or Better 3-year average is 43% and is above the guideline objective of 25%-35%. Recommended quotas for antlered elk are increasing this year to decrease the percentage of bulls harvested with a 50" Main Beam.

Ten cow elk were collared in February 2023 to better understand elk movements and behaviors. Preliminary results are showing that a significant number of cow elk are moving out of Area 22 during hunting season. As a result, antlerless quotas are being reduced to account for elk not being available for harvest. Antlerless quotas should allow for some population growth. Similar to antlerless quotas, spike quotas are being reduced because yearling bulls generally remain with cow groups and may not be available to harvest.

This population is currently within the population objective.

Reporting Biologist: Menghini

Supervisor: Roberts

Elk Quota Recommendation Form

Unit Group: 231

Date Prepared: 3/28/2024

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			
	2021-2022	57	72					14	143	79			
2022-2023	26	55	33	114	47	60	550	59		58	36	69	66
2023-2024	102	290	116	508	35	40	650	73		70	32	63	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	# of Tags		
	2022-2023	12	1	6	1	40	4			40	4				10		10		
2023-2024	12	1	6	1	40	4			50	4		25		9		9			23
2024-2025	21	2	12	1	41	4			42	4		25		7		10			28
Tag Trend	INC	INC	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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
	2022-2023	7	1	6	1	40	4			50	5							25	
2023-2024	4	1	6	1	40	4			50	5									
2024-2025	19	2	15	2	40	4			65	7									
Tag Trend	INC	INC	INC	INC	=	=	=	=	INC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

The population has remained strong in Unit 231. This has been a tough unit to survey due to movement in and out of the unit. Survey results in early 2024 yielded a sample size higher than recent years with strong calf recruitment for the second consecutive year. The 6-point percentage and 50-inch main beam metrics have remained strong at 32% 50-inch main beam and 63% 6-point harvest. Successful hunt metrics remain high in Area 23. Bull quota recommendations for ALW are similar to last year, primitive weapon quotas are increasing slightly to comply with Commission Policy 24. The Department recommends a slight increase in antlerless ALW early/late tags to keep population within objective.

Reporting Biologist: Shanks

Supervisor: Bennett

Elk Quota Recommendation Form

Unit Group: 241,242

Date Prepared: 3/28/2024

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			
2021-2022	1	24	5	30	4	21	110	75			50	40	4
2022-2023				0	--	--	110	70			34	50	7
2023-2024				0	--	--	110	67			20	80	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	# of Tags			
2022-2023	2		2		4															1
2023-2024	3		2		3															1
2024-2025	3		2		3															1
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	
2022-2023	3				10															
2023-2024	2		2		10															
2024-2025	2		2		10															
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

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. Success in Area 24 has remained high with a drop in 50-in main beam and an increase in 6-point percentage. Harvest metrics and 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: 3/21/2024

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			
2021-2022				0	--	--		80			25	100	0
2022-2023				0				13			0	100	2
2023-2024				0	--	--		25			0	0	0

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		
2022-2023											10								
2023-2023											5								
2024-2025											5								
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	4181	4281	4181	4281	E	M	L	A	M	ALW	E	M	L
2022-2023					15														
2023-2023																			
2024-2025																			
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

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 similar quota.

Reporting Biologist: Burkett

Supervisor: Bennett

Elk Quota Recommendation Form

Unit Group: 262

Date Prepared: 3/21/2024

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			
2021-2022				0	--	--	155	100			40	40	--
2022-2023				0	--	--	160	100			75	75	--
2023-2024				0	--	--	160	100			0	100	--

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	4181	4281	4181	4281	4181	4281	E	M	L	E	M	L	# of Tags			
2022-2023	1		1		2															
2023-2024	1		1		3															
2024-2025	1		1		3															
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

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

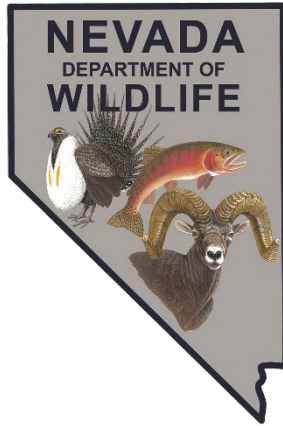
Year	Antlerless Archery		Antlerless Muzzleloader		Antlerless ALW Early		Antlerless ALW Mid		Antlerless ALW Late		Antlerless Depredation Hunt 4107			Antlerless Mgmt Hunt (DELK)			Antlerless Wilderness Hunt 4181			
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	E	M	L	A	M	ALW	E	M	L	
2022-2023																				
2023-2024																				
2024-2025																				
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

An aerial survey was attempted in February 2024 but was canceled due to poor weather conditions. The most recent aerial survey in 2021 yielded a sample of 18 elk, however, this herd is difficult to survey due to rugged terrain and dense tree cover. The effects of recent drought appear less pronounced in populations inhabiting the northern Spring Mountains due to higher elevations and greater water availability. Based on hunter success and bull quality for the 2023 hunt season, the Department recommends no change in quota.

Reporting Biologist: Wood

Supervisor: Bennett



2024-2025 Bighorn Sheep Quota Recommendation Forms

2024-2025 Mountain Goat Quota Recommendation Forms

(Accompanies Commission Regulation 24-12)

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 045

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	80	9	9		260	149	9	9
2021-2022	46	4	2		90	60	2	2
2023-2024	44	2	2		120	76	3	4
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	8	5.6	100%		4			
2021	1	6	50%		3			
2023	2	4.5	100%		3.5			
Trend	down	down	stable		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2018				4	4		
2021				2			
2023				2			
Trend				down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
1	100%	0%	100%	0%	100%	045		1		0	
Archery					0%						

Ewe Removal Recommendations							Res Tags		NR Tags	
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ				

Quota and Population Objective Rationale

Population Objective:

Recommend 1 resident ram tag. Quota to remain conservative. This herd had a die-off in late 2020 from M. ovi that was likely transmitted from Unit 182 bighorn. Total mature ram availability still largely unknown from die-off, only 2 mature rams observed on survey in 2023 and overall age of the harvested rams from 2022 was 2.5 and 2023 was 4.5, which is under NDOW's objective of 6+.years old.

Reporting Biologist: Kyle Neill

Supervisor: Munson/Salisbury

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 131, 164

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	67	3	3		110	70	6	3
2021-2022	59	2	1		80	50	5	2
2023-2024	55	6	0		63	37	4	2
Trend	down				down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2019	2	5	67%		12.7	0	NA	NA
2021	1	7	100%		2	0	NA	NA
2023	0	NA	0%			0	NA	NA
Trend	down	down			down			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2019	0	0	0	3			
2021	0	0	0	1			
2023	0	0	0	0			
Trend				down			

Ram Quota Recommendations

Total Ram Quota			% Unit Split				Resident			Nonresident	
	Early %	Late %	Res %	NR %	Unit(s)	Archery	Early	Late	Early	Late	
0	100%	0%	100%	0%	131, 164		0		0		
	Archery	0%			0						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

In 2022, Units 131 and 164 were combined with Unit 132 to provide hunters more opportunity to locate a mature ram. Two tags were recommended last year and neither of the rams were harvested in Unit 131 or Unit 164. These units do not have a stand alone quota recommendation for 2024. An aerial survey was conducted in this unit group where 55 sheep were observed in Units 131 and 164. The majority of the sheep were observed in Unit 164 and the lamb recruitment was promising but there was not a mature ram observed. Due to the lack of observed mature rams in these 2 units, only 1 tag is recommended for the Unit Group 131, 132, 164.

Reporting Biologist: Ricketts

Supervisor: Roberts

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 132

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	57	6	3		120	72	7	4
2021-2022	103	10	6		140	80	5	5
2022-2023	46	5	2		130	78	7	4
2023-2024	50	6	2		93	55	7	3
Trend	down	down	down		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2019	2	5.5	100%		11.5	0	NA	NA
2021	3	6	75%		15.5	0	NA	NA
2022	3	5	100%		5	0	NA	NA
2023	2	4	100%		12	0	NA	NA
Trend	up	stable						

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2019	0	0	0	2	0	0	0
2021	0	0	0	4	0	0	0
2022	0	0	0	4			
2023	0	0	0	2	0	0	0
Trend				up			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
1	100%	0%	100%	0%	100%	132		1		0	
	Archery	0%			0%	0					

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

In 2022, Units 131 and 164 were combined with Unit 132 to provide hunters more opportunity to locate a mature ram. Two tags were recommended last year and both of the rams were harvested in Unit 132. An aerial survey was conducted in Unit 132 with 50 bighorn observed. Lamb recruitment was dismal and there were only two mature rams observed. Due to the lack of mature rams and recent harvest data, only 1 ram tag is recommended for this unit group.

Reporting Biologist: Ricketts

Supervisor: Roberts

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 134, 251

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	101	5	5		160	107	8	6
2021-2022	112	9	6		150	100	4	4
2023-2024	72	5	3		120	77	4	3
Trend	stable	down	down		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	2	6	40%		13	0	0%	0
2022	2	6	67%		13	0	0%	0
2023	2	4.5	67%		8.3	0	0%	0
Trend	stable	down	stable		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				5			
2022				3			
2023				3			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %		% Unit Split	Unit(s)	Resident			Nonresident	
			NR %	Archery			Early	Late	Early	Late	
2	100%	0%	100%	0%	100%	134, 251		2		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 300

In 2011, a disease event caused a decline in lamb recruitment and affected adult survival. In recent years, higher lamb ratios have been observed, indicating a recovery of the population. Presumably, drought conditions have slowed this herd's rebound. Range conditions have dramatically improved over the last two years. Two new water development projects were built during the summer 2023 in the Reveille range. During the 2023 aerial survey, a lamb ratio of 33 lambs:100 ewes was classified. This hunt is difficult due to lower densities of bighorn sheep and large roadless areas. 2 ram tags are recommended for this unit group.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 161

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	387	32	24		500	291	22	16
2021-2022	281	20	9		550	335	19	17
2023-2024	97	6	4		180	115	8	5
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	16	5.8	94%		5	23	77%	
2022	11	5.4	65%		7.7	22	44%	
2023	6	5.4	58%		7.2	16	39%	
Trend	down	stable	down		down	down	down	

Previous Quotas

		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021		30	2		8	7	1	2
2022		35	5		8	7	1	1
2023		45	5	2	4	4	1	1
Trend		up	up		stable	stable	stable	down

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
4	45%	55%	90%	10%	100%	161		2	2		
	Archery	0%				NR AR					

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

A disease event occurred during the fall of 2023. Harvested bighorn were sampled and a high prevalence rate of *Mycoplasma ovipneumoniae* (M. ovi) was discovered. The strain type matched with the "pancake strain" which is believed to have been the same strain impacting the adjacent Hot Creek population. At this point, adult mortality rates are unknown and additional summer ground surveys will assist the Department in their assessment of adult loss. Survey results in January 2024 revealed a significant decrease in lamb ratio from aerial surveys that occurred in September 2023. The Department removed the archery seasons, nonresident seasons, and ewe seasons in unit 161. The Department is recommending a conservative ram quota of 4.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 163, 162

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	169	18	11		320	205	12	9
2021-2022	33	2	2		110	77	5	3
2023-2024	65	5	4		90	60	4	2
Trend	up	up	up		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	8	6.1	100%		3.6			
2021	6	4.5	100%		7.3			
2023	1	5	100%		23			
Trend	down	stable	stable		up			

Previous Quotas

	Res	Ewes NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2021			1	7		1	
2022			1	7		1	
2023			0	1		0	
Trend			down	down		down	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
1	90%	10%	90%	10%	100%	163, 162		1	0	0	0
	Archery	0%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

After significant reductions in the Unit 162, 163 population due to *Mycoplasma ovipneumoniae* (*M. ovi*), recent aerial surveys produced positive results. The survey yielded a total of 65 sheep with a lamb ratio of 38. These results were promising, and additional surveys should confirm increased lamb recruitment into the population. Four mature rams were observed on survey with 5 rams in the 4- to 5-year-old age class. The Department is recommending a quota of 1 ram.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 173N

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	45	4	1		130	109	9	6
2021-2022	36	1	0		120	103	9	6
2023-2024	38	1	4		130	75	4	4
Trend	stable	stable	up		stable	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	2	5.5	50%		17.17			
2021	1	4	33%		6.3			
2023	3	6	60%		12.5			
Trend	up	stable	up		up			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	MGMT	Early	Late	Early	Late
2021				4		1	
2022				3			
2023			4	1			
Trend				down			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
6	100%		100%	0%	20%	173N		1			
			Management Ram Hunt		80%	173N MR		5			

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 300

After a successful inaugural management ram hunt in 173N, the Department will be continuing the hunt and slightly increasing the quota. The 173N bighorn population continues to have high lamb ratios, but although much of the Toiyabe Range is great bighorn sheep habitat, they have not been found to pioneer into unoccupied habitat. The two hunts will continue to be challenging. Bighorn in this unit utilize incredibly rugged terrain with thick limber pine, single leaf pinyon, and juniper. These factors add to the complexity of the hunt. The Department recommends a slight increase in quota to 6 rams.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 173S

Year: 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	51	6	6		80	47	2	2
2022-2023	52	8	7		60	39	2	2
2023-2024	--	--	--		50	35	3	1
Trend	stable	up	up		stable	stable	up	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	1	6	50%		4.5			
2022	2	8	100%		5.8			
2023	2	7.5	100%		6.5			
Trend	stable	stable	up		stable			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				2			
2022				2			
2023				2			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota			% Unit Split		Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %		Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	173S		2		0	
Archery										

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 200

Mature rams continue to be available for hunters to harvest in unit 173S. Aerial surveys in 2022 indicate *Mycoplasma ovipneumoniae* (M. ovi) lingers within this herd. A positive ELISA test from a capture and collaring project in 2022 confirmed that portions of the herd have been exposed to *Mycoplasma ovipneumoniae*. The Department recommends that the quota remain at 2 tags.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 181 East & West

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	119	14	7		596	352	27	20
2021-2022	379	39	51		431	431	26	13
2023-2024	247	19	26		294	294	13	7
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	17	7.7	95%		5			
2021	18	7.3	83.00		4.6			
2023	19	6.6	90%		5.72			
Trend	up	down	up					

Previous Quotas

	Ewes Res	Ewes NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2018				16		2	
2021				18		2	
2023				20		2	
Trend				up		stable	

Ram Quota Recommendations

Total Ram Quota			% Unit Split		Unit(s)	Resident			Nonresident	
	East%	West	Res %	NR %		Archery	East	West	East	West
7	60%	40%	75%	25%	100%	East & V	3	2	1	1
	Archery				0%					

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Bighorn sheep ram quota of 7. Tags split 60% and 40% to 181 East and 181 West, respectively. After the herd made a great recovery after the 2007-2008 pneumonia dieoff event, another pathogen spillover hit the Unit 181 bighorn herds around 2020. But prior to that year, great lamb recruitment since 2009 fueled over a decade of high ram numbers and great ram harvest metrics through 2021. In recent years both pathogens and lion predation have reduced survival rates, causing a significant population decline. Current and future ram ratios will need to be reduced due to both lower recruitment rates since 2020 and increase in lion predation.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 182

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	203	19	8		629	373	27	20
2021-2022	153	14	7		319	198	16	10
2023-2024	149	11	14		242	150	16	7
Trend	down	down	down		down	up	stable	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	15	6.5	93%		6			
2021	18	5.9	95%		8			
2023	7	5	70%		13			
Trend	down	down	down		up			

Previous Quotas

	Rams	Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2018	16				13		3	
2021	19			2	15		2	
2023	10			1	8		1	
Trend	down				down		down	

Ram Quota Recommendations

Total Ram Quota					% Unit Split	Unit(s)	Resident			Nonresident	
	Early%	Late%	Res %	NR %			Archery	Early	Late	Early	Late
7	90%	0%	80%	20%	100%	182	1	5		1	
	Archery	10%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Excessive ram tags were issued since 2019 along with overestimation of the total population and rams available for harvest resulting in the overharvest of the ram segment. Hunters have struggled to find mature rams since 2018 with the average days hunted being 3.5 from 2013-2017, rising 7.3 days from 2018-2023. A continued reduction in tags is recommended

Reporting Biologist: Jason Salisbury

Supervisor: 1200

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 183

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	177	14	12		300	184	10	10
2021-2022	137	16	16		280	162	20	8
2023-2024	244	31	18		270	169	16	8
Trend	up	up	up		up	up	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	16	5.9	100%		2.75			
2021	7	7	1.00		2.85			
2023	10	7.1	100%	PIW	3			
Trend	up	up	stable		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2018	16				14		2	
2021	7				6		1	
2023	9				8		1	
Trend	up				up		stable	

Ram Quota Recommendations

Total Ram Quota					% Unit Split	Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %			Archery	Early	West	Early	West
9	100%	0%	90%	10%	100%	183		8		1	
	Archery	0%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

2021 was the first year we saw increases in lamb survival following the die off that occurred 3 years previously. 2023 Survey prior to 2023 hunt classified good numbers of 4-5 year old rams that will continue to support future ram quotas. Though average ram harvest age is trending up, there was an extra ram harvested by PIW hunter in Unit 183 last year. Potential for increase in lion predation from large removal of horses in the Clan Alpine Range. Recommend status quo in ram quota from last year.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 184

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	62	8	3		256	151	8	11
2021-2022	80	4	11		198	123	6	8
2023-2024	177	16	14		181	129	9	4
Trend	up	up	up		down	down	up	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	4	5	100%		1.75			
2021	6	6	0.85		6			
2023	5	7	100%		3			
Trend	up	up	up		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2018				4		1	
2021				4		1	
2023				3		1	
Trend							

Ram Quota Recommendations

Total Ram Quota							Resident			Nonresident	
	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
7	100%	0%	85%	15%	100%	184		6		1	
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Record survey with 177 sheep observed though lamb ratio in 2023 was in single digits likely due to a combination of severe late winter weather at time of 2023 lamb birthing and M.ov1 pathogen spillover from adjacent bighorn herd. Current strong mature ram segment in the population can support an additional 1 tag.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 202

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019					177	109	7	5
2021-2022	37	4	2		139	89	6	4
2023-2024	59	10	5		126	81	5	4
Trend	up	up	up		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	5	6.2	100%		1.16			
2021	4	6.5	80.00		3.75			
2023	4	8.75	100%		2.5			
Trend	down	up	stable		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2018					6			
2021				1	4			
2023				1	3			
Trend				stable	stable			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
4	80%	0%	100%	0%	100%	202	1	3		0	
	Archery	20%			0%						

Ewe Removal Recommendations								
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

50% 6 year old rams = 4. 8% of total rams = 3 rams. Recommend status quo on ram quota. Continue to have vehicle-bighorn mortalities and lion predation.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 204

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams	Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019				66	39	3	2
2021-2022				52	39	2	1
2023-2024	47	1	6	51	32	3	2
Trend	down	down	stable	down	down	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success	Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	0			1			
2021	2	5	100.00	1			
2023				DNH			
Trend	down	down	down	stable			

Previous Quotas

	Res	NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2018				1			
2021				2			
2023				1			
Trend			stable	down			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	100%	204		2		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal	Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Recommend 2 tag total for ram harvest. Small population of sheep occupying the East Walker river corridor. The single 2023 ram tagholder did not hunt. Enough mature rams available to warrant 2 tags.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 205/207

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	100	5	4		758	459	24	24
2021-2022	283	32	40		344	214	22	10
2023-2024	169	20	21		233	156	17	6
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	13	6.4	92%		5.19			
2021	9	7.1	0.69		4.5			
2023	10	7.1	100%		3.3			
Trend	up	down	up		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2018				20		3	
2021				11		2	
2023				9		2	
Trend				down		stable	

Ram Quota Recommendations							Resident		Nonresident
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Rifle	Rifle	
8	100%	0%	80%	20%	75%	205	5	1	
Archery					25%	207	2	0	

Ewe Removal Recommendations								
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Reduced tag quota from 10 to 8 between 205 and 207. Recommend continued low ram harvest in unit to account for a disease event that occurred in September 2023. Hunter harvested rams were sampled with no positive PCR infection. Many harvested rams were coughing when hunters took them. So it seems the rams were coughing because of a previous infection that caused lung damage. Lion predation is a continued problem in this unit group.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 206

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams	Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019				264	174	5	7
2021-2022	98	7	6	198	140	5	6
2023-2024	133	9	11	209	144	4	5
Trend	up	up	up	up	up	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success	Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	5	5	100%	5.33			
2021	3	6.75	0.75	3.6			
2023	3	7.3	75%	4.5			
Trend	down	up	stable	up			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2018				4			
2021				4			
2023				4			
Trend							

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
4	100%	0%	100%	0%	100%	206		4		0	
Archery					0%						

Ewe Removal Recommendations									
Total Ewe Objective	# Reduce	% Reduce	Nonlethal	Harvest	2023% Succ	Res Tags	NR Tags		

Quota and Population Objective Rationale

Population Objective:

50% of 6 year old plus in model = 4 rams tags. Three rams were harvested out of the main Excelsiors with no rams harvested from the Candalaria Hills or Garfield Hills.

Reporting Biologist: Salisbury

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 211

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	315	36	19		450	274	18	13
2021-2022	241	25	19		400	265	16	12
2023-2024	87	3	6		250	165	7	6
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	9	6.9	69%		4.2			
2022	9	5	75%		6.6			
2022	10	5.2	100%		4.3			
Trend	up	stable	up		stable			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2019				13		1	
2021			1	10		2	
2022			1	10		1	
Trend			stable	stable		down	

Ram Quota Recommendations

Total Ram Quota			% Unit Split				Resident			Nonresident	
	Early %	Late %	Res %	NR %	Unit(s)	Archery	Early	Late	Early	Late	
6	90%	0%	75%	25%	211	1	4		1		
	Archery	10%									

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 500

Hunter harvest metrics and sample sizes observed on survey are concerning in Unit 211. Only 87 bighorn sheep were observed during survey and the average age of harvested rams decreased to 5.2. Two new strains of *Mycoplasma ovipneumoniae* have been detected in adjacent Units. Current PCR tests have not found these strains present in 211, but a spillover is likely to have occurred. The Department recommends a reduction in the total ram quota to 6.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 212

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	249	45	33		350	198	30	12
2021-2022	131	18	31		250	150	21	8
2023-2024	41	4	13		60	39	2	1
Trend	down	down	down		down	down	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	17	7.8	94%		3.3			
2022	16	7.2	84%		5.7			
2023	4	7.25	80%		9			
Trend	down	stable	down		up			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021			1	7	7	1	2
2022			2	9	7	1	1
2023			1	6		1	
Trend			down	down	down	stable	down

Ram Quota Recommendations

Total Ram Quota					% Unit Split	Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %			Archery	Early	Late	Early	Late
0	90%		90%	10%	100%	212	0	0		0	
	Archery	10%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

Aerial survey in 2023 resulted in very concerning findings. Adult mortality has increased due to recent exposure to a virulent strain of *Mycoplasma ovipneumoniae* (*M. ovi*). After just 41 bighorn were classified in Unit 212 in two separate aerial surveys, the Department recommended the closure of all bighorn hunting seasons. A capture and collaring effort was initiated in February 2024. Eighteen individuals were collared, of which 9 were ewes, 7 were rams, and 2 were lambs. The goal of this project is primarily to understand prevalence rates of bacterial pneumonia. No quota is recommended.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 213

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	297	54	19		400	202	22	15
2022-2023	95	12	12		120	69	11	4
2022-2023	98	11	22		110	62	12	4
Trend	stable	stable	up		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	16	6.75	67%		4.5	10	67%	
2022	10	5.6	63%		7.4	-	-	
2023	1	7	33%		4.75	-	-	
Trend	down	stable	down		down			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021	15	1	2	7	6	2	2
2022	15	1	2	6	6	1	1
2023	-	-	1	2	-	1	-
Trend			down	down		stable	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
5	80%	0%	90%	20%	100%	213	1	3		1	
	Archery	20%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

Drought and disease have caused this herd to decline rapidly. Recent surveys observed static trends with almost no lamb recruitment. Although poor hunter success occurred in 2023, many mature rams are present within this population with 22 rams six years or greater being classified on survey. The Department recommends an increased ram quota of 5.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 221, 223, 241

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022					220	137	12	7
2022-2023	194	7	13		210	133	11	7
2023-2024					220	129	11	6
Trend	down	down	down		stable	down	stable	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	6	7.3	71%		6.75			
2022	6	7	100%		6			
2023	3	6	60%		16.4			
Trend	down	down	down		up			

Previous Quotas

	Res	Ewes		Ram Resident			Ram Nonresident	
		NR	Archery	Early	Late	Early	Late	
2020					8			
2021					6			
2023					6			
Trend					stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
5	100%	0%	100%	0%	20%	221,223		1			
	Archery				80%	241		4			

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 300

This bighorn population has declined in recent years due to disease exposure, drought and poor lamb recruitment. Lamb ratios in this unit were depressed during recent drought years but have improved back to replacement levels. Hunt success and average days hunted has decreased. Due to harvest metrics, and available mature rams the Department recommends a decreased quota compared to last year.

Reporting Biologist: Shanks

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 243

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	168	13	9		170	108	9	5
2022-2023	168	13	9		180	126	8	4
2023-2024	147	5	19		200	122	11	6
Trend	down	down	up		stable	stable	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	4	6.8	60%		5.5			
2022	5	7.6	100%		6.6			
2023	5	7.8	100%		13.6			
Trend	stable	stable	stable		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					5			
2022					5			
2023					5			
Trend					stable			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
6	100%	0%	100%	0%	100%	243		6		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **300**

This Bighorn population has remained stable despite low recruitment into the population during the severe drought conditions. The 2023 survey showed improved recruitment which was expected. The mature ram segment of this herd is strong as supported by survey data and hunt metrics. Hunter success has remained high over the past 3 years. The average age of harvested rams remains high. The Department recommends 6 tags due to the mature age class structure of rams in the unit.

Reporting Biologist: Shanks

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 244

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	94	8	10		140	87	4	4
2022-2023	67	4	7		105	65	5	3
2023-2024	-	-	-		100	59	7	4
Trend	down	down	down		stable	stable	up	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	4	7.3	100%		9.7	--	--	--
2022	3	9.7	100%		6	--	--	--
2023	3	9	100%		15.3	--	--	--
Trend	stable	up	stable		up	--	--	--

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					3		1	
2022					2		1	
2023					3		0	
Trend					up		down	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
3	100%	0%	100%	0%	100%	244		3		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 225

This unit was not surveyed in 2023. This population has been relatively stable with a slight decline in recent years due in part to drought. Movement between the Arrow Range and adjacent ranges is suspected, especially in years with poor forage conditions. The 2022 fall survey indicated sufficient mature rams in this unit, and mild weather since then has improved range conditions in this area. The Department recommends the same quota for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 245,133

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022					140	84	4	4
2022-2023	85	2	7		130	79	4	4
2023-2024					130	79	5	4
Trend	down	down	up		stable	stable	up	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	4	7	100%		7			
2022	4	7	100%		4.3			
2023	2	6.5	67%		9.3			
Trend	down	down	down		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					4			
2022					4			
2023					3			
Trend					down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	100%	245,133		2		0	
Archery					0%						

Ewe Removal Recommendations				Resident		Nonresident	
Total Ewe Objective	# Reduce	% Reduce	Nonlethal	Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **200**

This population is slightly decreasing due to lower lamb recruitment in recent years. Over the past 3 years, hunter success has remained high, the average number of days hunted has remained low, and the average age of harvested rams has remained stable. Although average age has remained strong the quality of rams and the lack of replacement of ram cohorts in the population due to poor lamb recruitment is causing the Department to recommend a slight tag decrease.

Reporting Biologist: Shanks

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 252

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	87	6	10		120	93	5	2
2022-2023	44	3	4		60	50	3	1
2023-2024	--	--	--		50	40	3	1
Trend	down	down	down		down	down	down	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	2	8.5	100%		11			
2022	2	7.5	100%		9.5			
2023	0	0	0%		17			
Trend	stable	stable	down		up			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				3			
2022				2			
2023				1			
Trend				down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
0	100%	0%	100%	0%	100%	252		0		0	
Archery					0%						

Ewe Removal Recommendations									
Total Ewe Objective	# Reduce	% Reduce	Nonlethal			Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **300**

The Stonewall bighorn population has experienced low lamb ratios for the past nine years. This is attributed to *Mycoplasma ovipneumoniae* (*M.ovi*), causing high lamb mortality, and resulting in a severe population decline. After several attempts to capture bighorn sheep on Stonewall Mountain in a Test and Removal project, few bighorn were even observed. The single 2023 tagholder hunted a total of 17 days, seeing very few sheep. The Department recommended to close bighorn sheep harvest within this unit until dramatic changes in herd status and more mature rams are present.

Reporting Biologist: Burkett

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 253

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	117	19	19		130	80	16	4
2022-2023	105	14	13		120	77	16	3
2023-2024	99	1	29		110	74	12	3
Trend	down	down	up		down	stable	down	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	8	7.8	100%		2.9	-		
2022	5	8.6	83%		6.7	-		
2023	6	8.3	100%		4.2	-		
Trend	up	stable	up		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					6		1	
2022					5		1	
2023					4		1	
Trend					down		stable	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %		NR %	% Unit Split	Unit(s)	Resident			Nonresident	
			Res	NR				Archery	Early	Late	Early	Late
6	100%	0%	80%	20%	100%	253		5			1	
Archery					0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **300**

Two rams were harvested with Specialty tags and one one-horned ram was harvested in this unit in 2023. The demographics of this population skew to older age classes due to a pneumonia-related die-off and low lamb recruitment several years ago. Almost 30 mature rams were observed on survey in 2023, but many are not year-round residents, and very few young rams were noted. A total of 18 collars were deployed in the Bare Mountains in 2022 and 2023 to study disease prevalence and movement, confirming migration to/from the NTTR. We recommend a quota of 6 for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 254

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	158	14	10		170	113	7	4
2022-2023	114	13	10		110	78	5	3
2023-2024	-	-	-		110	74	7	4
Trend	down	down	stable		stable	down	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	4	7.5	80%		2.3			
2022	5	7.6	100%		5.6			
2023	2	9	66%		1			
Trend	down	up	down		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					5			
2022					3			
2023					3			
Trend					stable			

Ram Quota Recommendations

Total Ram Quota							Resident			Nonresident	
Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late	
3	100%	0%	100%	0%	100%	254		3		0	
Archery				0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 225

In 2022 and 2023, a total of 13 bighorn sheep were collared as part of an effort to monitor disease prevalence and connectivity with adjacent populations. Seasonal movement between the Specter Range and the Nevada National Security Site (NNSS) was noted, especially for rams. No aerial surveys were conducted in 2023 for this unit, and survey results from year to year may vary due to range conditions and detection of seasonal inhabitants. The Department recommends the same quota of 3 for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 261

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	117	7	16		140	89	7	4
2022-2023	62	3	7		110	69	5	3
2023-2024	-	-	-		120	71	6	4
Trend	down	down	down		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	5	6.2	100%		6.8			
2022	1	8	33%		12.5			
2023	1	9	100%		3			
Trend	stable	up	up		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					5			
2022					3			
2023					2			
Trend					down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
3	100%	0%	100%	0%	100%	261		3		0	
Archery					0%						

Ewe Removal Recommendations									
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags	

Quota and Population Objective Rationale

Population Objective: 225

One of two tag holders for Unit 261 did not hunt this season. A total of 7 collars were deployed in this unit in 2022 to examine disease prevalence and connectivity with other populations. Migration is possible to and from adjacent ranges (Nopah, Resting Spring, Funeral), though this was not observed in collared animals. With good range conditions, this population has remained stable with sufficient cohorts of younger and older rams. The Department Recommends an increase in quota to 3 tags in 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 262

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	83	2	9		140	88	6	5
2022-2023	37	1	5		120	74	5	4
2023-2024	59	2	3		110	68	6	4
Trend	up	stable	down		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	2	7	40%		7.7			
2022	3	8	100%		3.7			
2023	2	8.5	66%		6			
Trend	down	up	down		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					5			
2022					3			
2023					3			
Trend					stable			

Ram Quota Recommendations

Total Ram Quota							Resident			Nonresident	
Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late	
100%	0%	100%	0%	100%	262		2		0		
Archery				0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 600

The upper Spring Mountains/La Madre area of this unit were not surveyed in 2022 but was included in 2023 surveys. Distribution of bighorn sheep is highly variable year-to-year, and the population appears to be still recovering from the impacts of disease detected in 2013 and 2018 as well as extreme drought from 2019 to 2022. Hunter success and hunter effort have fluctuated for this unit as well. The Department recommends a decrease in quota for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 263

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	165	8	19		200	114	11	6
2022-2023	211	14	15		230	120	13	6
2023-2024	-	-	-		230	128	17	8
Trend	up	up	down		stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	8	8.9	100%		3.4			
2022	4	8	80%		7.6			
2023	7	7.8	100%		4.1			
Trend	up	stable	up		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				7		1	
2022				4		1	
2023				5		1	
Trend				up		stable	

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
7	100%	0%	85%	15%	100%	263		6		1	
Archery					0%						

Ewe Removal Recommendations								
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

This unit was most recently surveyed in 2022 and 2018. Estimates for lamb recruitment have been poor for the past ten years based on survey data, range conditions, and impacts from disease and drought. However, based on the observed age classes of the 2022-2023 survey, we believe recruitment may have been higher than estimated between the 2018 and 2022 survey years, and estimates for all age classes may have been underreported in previous years. One Silver State tag was filled here in 2023. The Department recommends an increase in quota.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 264-266

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	39	0	0		140	86	11	4
2022-2023	--	--	--		70	44	4	2
2023-2024	--	--	--		60	38	3	2
Trend					down	down	down	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2019	2	8	100%		1.5			
2022	2	8	100%		5			
2023	2	7	100%		8.5			
Trend	stable	stable	stable		up			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2019				1			
2022				2			
2023				2			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	100%	264-266		2		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **600**

Units 264-266 were combined as a unit group in 2021 and were last surveyed by air in 2019. Bighorn sheep densities remain low in the Newberry and Eldorado Mountains due to the impacts of disease and prolonged drought. Hunter success has been good with a small increase in hunter effort, but numbers and distribution of mature rams is still unknown. The Department recommends no change in quota for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 267

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	296	13	9		320	190	12	8
2022-2023	305	31	16		360	210	12	8
2023-2024	-	-	-		360	200	15	12
Trend	up	up	up		stable	stable	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	9	7.1	90%		4.2			
2022	8	7.2	100%		7.6			
2023	10	5.3	100%		3.2			
Trend	up	down	stable		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021				-	9		1	
2022				-	8		1	
2023				1	8		1	
Trend				up	stable		stable	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
8	90%	0%	90%	10%	100%	267	1	6		1	
Archery		10%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **350**

This population is modeled together with Unit 268 due to high connectivity between ranges. Bighorn sheep in these units do not have a documented history of *M. ovi* and remain some of the only *M. ovi*-free extant herds in western North America. A new archery hunt was implemented for 2023 with a single tag, which was successful. Average harvested ram age was low this year, which could be a product of seasonal movement of mature rams. The Department recommends a decrease in quota for a total of 8 tags.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 268

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	380	34	60		550	245	48	23
2022-2023	499	70	76		520	240	38	15
2023-2024	272	27	26		540	300	43	20
Trend	stable	stable	stable		up	up	stable	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	40	7.3	98%		4.8	46	62%	
2022	34	7.3	95%		5.6	19	52%	28
2023	37	7.2	97%		4.6	24	60%	0
Trend	stable	stable	stable		stable	stable	stable	

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021		76	9		37		7	
2022		36	4		33		5	
2023		36	4		33		5	
Trend		stable	stable		stable		stable	

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
38	100%	0%	87%	13%	100%	268		33		5	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags
250	39	13%	0	39		65%	54	6

Quota and Population Objective Rationale

Population Objective: **500**

A short survey was conducted in 2023 in Unit 268 to estimate lamb birth and recruitment rates following the 2019-2022 drought conditions and do not represent a complete survey. The ewe quota was reduced in 2022 due to the transfer of thirty-two bighorn sheep to Utah and remained low due to ongoing drought. Recent mild weather and improved range conditions justify an increase near previous quota levels. The Department recommends a quota of 38 total ram tags and 60 total ewe tags.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 271,242

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	77	9	9		280	172	13	8
2022-2023					230	156	12	7
2023-2024	114	7	15		200	122	12	6
Trend	up	down	up		down	down	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	8	7.5	77%		8.6			
2022	5	8.4	71%		10.1			
2023	4	9.3	80%		12.4			
Trend	down	up	up		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2020					8		1	
2021					6		1	
2023					4		1	
Trend					down		stable	

Ram Quota Recommendations

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
4	100%	0%	100%	0%	100%	271,242		4		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

This bighorn population has declined in recent years due to disease exposure, drought and poor lamb recruitment. Lamb Ratios in this unit were depressed during recent drought years but have improved back to replacement levels per the 2023 survey. On survey, there is an evident gap in age class of rams. Survey results were top heavy for mature rams. Hunter success has remained stable and days hunted has continued to rise. The Department is recommending a slight decrease in quota for this Unit.

Reporting Biologist: Shanks

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 272

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	55	7	5		90	58	6	3
2022-2023	--	--	--		60	37	3	2
2023-2024	27	3	2		50	31	3	1
Trend	down	down	down		down	down	stable	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	1	8	100%		1			
2022	1	8	100%		11			
2023	1	8	100%		2			
Trend	stable	stable	stable		down			

Previous Quotas

	Res	NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2021				1			
2022				1			
2023				1			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
1	100%	0%	100%	0%	100%	272		1			0
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **225**

Unit 272 is remote, vast and sparsely populated by bighorn sheep. Average hunter success over the previous 10 years (2012 - 2022) was 59%, but all tags have been filled the last three years. The Department recommends no change in quota relative to last year.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 280

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	100	8	8		140	91	6	4
2022-2023	147	16	13		150	93	9	5
2023-2024	--	--	--		160	95	10	5
Trend	up	up	up		stable	stable	up	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	3	8.3	60%		6.8			
2022	3	9.7	100%		4.3			
2023	3	9	60%		3.3			
Trend	stable	stable	down		down			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					5			
2022					3			
2023					5			
Trend					down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
5	100%	0%	100%	0%	100%	280		5		0	
Archery					0%						

Ewe Removal Recommendations						2023%	Res Tags	NR Tags
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	Succ		

Quota and Population Objective Rationale

Population Objective: **225**

This unit falls within the National Test and Training Range (NTTR) and Desert National Wildlife Range, which has access and activity restrictions enforced by the US Air Force (USAF) and US Fish and Wildlife Service (FWS). No aerial survey was conducted in this unit in 2023. However, favorable range conditions have prevailed since last survey. The Department recommends no change in quota for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 281

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2021	72	4	6		110	67	6	4
2022-2023	93	10	8		110	66	6	4
2023-2024	--	--	--		110	68	5	3
Trend	up	up	up		stable	stable	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	6	6.3	75%		4.75			
2022	1	9	25%		6			
2023	3	7.3	75%		6.5			
Trend	down	up	down		up			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				6			
2022				8			
2023				4			
Trend				down			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %		NR %	% Unit Split	Unit(s)	Resident			Nonresident	
			Res	NR				Archery	Early	Late	Early	Late
4	100%	0%	100%	0%	100%	281		4			0	
Archery					0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **300**

This unit falls within the National Test and Training Range (NTTR) and Desert National Wildlife Range and has access and activity restrictions enforced by the US Air Force (USAF) and US Fish and Wildlife Service (FWS). This area was not surveyed in 2023, but range conditions were good during 2022 surveys with mild weather prevailing through winter and the following year. The Department recommends no change in quota for 2023.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 282

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	52	3	2		60	35	5	2
2022-2023	26	2	0		50	30	4	2
2023-2024	63	3	9		80	48	5	3
Trend	up	up	up		up	up	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	2	6	66%		8.3			
2021	0		0%		0			
2023								
Trend	down	down	down		up			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2020				5			
2021				1			
2023				0			
Trend				down			

Ram Quota Recommendations

Total Ram Quota					% Unit Split	Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %			Archery	Early	Late	Early	Late
1	100%	0%	100%	0%	100%	282		1			0
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 175

This unit falls within the National Test and Training Range (NTTR) and Desert National Wildlife Range and has restrictions on access and activity. 2022 aerial survey results were very poor, possibly reflecting temporary dispersal into adjacent ranges due to poor range conditions caused by several years of extreme drought. Aerial surveys in 2023 resulted in more observations and improved range conditions, but population distribution and availability may vary seasonally. Two water developments in the East Desert Range were rebuilt with larger collection aprons and expanded tank capacity. The Department recommends a quota of one for 2024.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 283-284

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	77	6	6		220	134	11	7
2021-2022	88	6	9		120	73	7	3
2023-2024	-	-	-		130	80	7	4
Trend	up	stable	up		up	up	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	4	6.5	80%		9.4			
2022	4	7.25	100%		9.75			
2023	2	5.5	50%		12.5			
Trend	down	down	down		up			

Previous Quotas		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021					4		1	
2022					3		1	
2023					3		1	
Trend					down		stable	

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
3	100%	0%	80%	20%	100%	283-284		2		1	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **800**

Aerial surveys were attempted but not conducted in this unit in 2023 due to weather and access constraints, and that last surveys were conducted in 2021. This population has been impacted by disease issues and has been slow to recover, especially in recent years due to extreme drought. Population increases have been noted in some adjacent units. Hunter effort remains high while success and ram age have decreased. The Department recommends a decrease in quota for 2023.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn

Unit Group: 286

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	55	9	3		100	59	6	3
2022-2023	34	2	2		90	52	6	3
2023-2024	70	4	4		100	61	7	3
Trend	up	up	up		stable	stable	up	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	1	6	100%		5			
2022	1	7	50%		1			
2023	2	9	100%		8			
Trend	up	up	up		up			

Previous Quotas

	Res	NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2021				5			
2022				1			
2023				2			
Trend				up			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
3	100%	0%	100%	0%	100%	286		3		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **225**

The bighorn sheep population in this unit experienced a dramatic decrease between 2020 and 2022, prompting lowered quotas until numbers improved. Survey observations in 2023 indicate this population is recovering, and reprieve from years of severe drought may increase survival and recruitment. The Department recommends an increase in quota this year.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn - 1-Horn Ram

Unit Group: 133,223,245

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2017-2018								
2021-2022								
2023-2024								
Trend	stable				stable			

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021								
2022	0	0	0%		10.0			
2023	0	0	0%		14			
Trend								

Previous Quotas

	Res	Ewes		Ram Resident			Ram Nonresident	
		NR	Archery	Early	Late	Early	Late	
2021								
2022					1			
2023					1			
Trend								

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res		% Unit Split	Unit(s)	Resident			Nonresident	
			NR %	Archery			Early	Late	Early	Late	
1	100%	0%	100%	0%	100%	133,223,245		1		0	
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

There are no formal surveys for one-horn rams, however, one-horn rams are typically noted during aerial surveys or from hunter observation forms. Empirical evidence suggests there were enough one-horn rams in this unit group to sustain limited harvest. Last year's tag was not successful. The Department recommends no change to this quota.

Reporting Biologist: Shanks

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn - 1-Horn Ram

Unit Group: 253,254,261

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2017-2018								
2021-2022								
2023-2024								
Trend								

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
NA	--	--	--		--			
2022	0	--	0%		7.5			
2023	1	9	100%		5			
Trend								

Previous Quotas

	Res	Ewes		Ram Resident			Ram Nonresident	
		NR	Archery	Early	Late	Early	Late	
NA								
2022						2		
2023						2		
Trend								

Ram Quota Recommendations

Total Ram Quota			Resident		Nonresident				
	Early %	Late %	Res %	NR %	Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	100%	253,254,261		2	0
Archery					0%				

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

There are no formal surveys for one-horn rams, however, one-horn rams are typically noted during aerial surveys or from hunter observation forms. One tag holder did not hunt this season. The Department recommends no change to this quota.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn - 1-Horn Ram Unit Group: 262,263,264,265,266 Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2017-2018								
2021-2022								
2023-2024								
Trend								

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
NA	--	--	--		--			
2022	1	11	33%		2.5			
2023	1	9	50%		16			
Trend								

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
NA				--			
2022				3			
2023				3			
Trend							

Ram Quota Recommendations

Total Ram Quota			% Unit Split			Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %	Archery		Early	Late	Early	Late	
3	100%	0%	100%	0%	100%	262,263,264,265,266		3		0	
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

There are no formal surveys for one-horn rams, however, one-horn rams are typically noted during aerial surveys or from hunter observation forms. Evidence suggests there were enough one-horn rams in this unit group to issue three tags. One tag holder did not hunt this season. The Department recommends no change to this quota.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: Desert Bighorn - 1-Horn Ram Unit Group: 267,268 Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2017-2018								
2021-2022								
2023-2024								
Trend								

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
NA								
2022	3	9.3	75%		9.25			
2023	3	9.3	75%		4.75			
Trend								

Previous Quotas

	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success	Ewes		Ram Resident			Ram Nonresident	
				Res	NR	Archery	Early	Late	Early	Late
NA										
2022	3	9.3	75%				4			
2023	3	9.3	75%				4			
Trend										

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
4	100%	0%	100%	0%	100%	267,268		4		0	
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

There are no formal surveys for one-horn rams, however, one-horn rams are typically noted during aerial surveys or from hunter observation forms. Evidence suggested there are enough one-horn rams in this unit group to issue four tags. The Department recommends no change to this quota.

Reporting Biologist: Wood

Supervisor: Bennett

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 012

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	61	4	1		90	65	3	3
2022-2023	35	7	4		85	54	3	2
2023-2024	88	13	7		114	69	3	4
Trend	up	up	up		up	up	stable	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	3	6.3	75%		10			
2022	2	6	66%		8.67			
2023	1	4	100%		16			
Trend	down	stable	stable		up			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				3		1	
2022				2		1	
2023				1		0	
Trend				down		down	

Ram Quota Recommendations

Total Ram Quota			% Unit Split				Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %	Archery	Early		Late	Early	Late		
3	100%	0%	100%	0%	100%	012		3		0		
	Archery	0%			0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 300

Unit 012 is once again separated out from the 012-014 Unit Group. Despite years of drought, feral horse, and predation issues, the sheep population in Unit 012 appears to be rebounding. On survey, quite a few mature rams, as well as 4-5 year old rams were detected, indicating that the unit can support more tags than the previous year.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 022

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	58	6	6		80	58	3	3
2022-2023	31	11	7		80	53	4	2
2023-2024	-	-	-		80	53	4	2
Trend					stable	stable	stable	stable

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	2	7.5	100%		9			
2022	1	8	50%		8			
2023	2	5.5	100%		7.5			
Trend	stable	down	stable		down			

Previous Quotas

		Ewes		Ram Resident			Ram Nonresident	
		Res	NR	Archery	Early	Late	Early	Late
2021		0	0	0	2	0	0	0
2022		0	0	0	2	0	0	0
2023		0	0	0	2	0	0	0
Trend					stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
3	100%	0%	100%	0%	100%	022		3		0	
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 110

The sheep population in Unit 022 is stable, which has been reflected in the past few years of hunter success. The sheep hunt in this unit is limited by access issues on the northern end of the Virginia Mountains, where the sheep spend most of their time during the season. Due to hunters having access issues, NDOW recommends keeping the quota conservative despite the number of available rams in the unit.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 031

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	70	11	5		150	83	6	5
2022-2023	75	9	3		146	84	6	5
2023-2024	73	7	4		165	100	6	5
Trend	down	down	up					

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	5	7.4	83%		7	0		8
2022	6	5.7	100%		6	0		
2023	5	6.2	100%		4.8	0		
Trend	down	down	stable					

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2020				6			
2022				6			
2023				5			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota					% Unit Split	Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %			Archery	Early	Late	Early	Late
4	100%	0%	100%	0%	100%	031		4			0
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 300

The Double H Mountains herd continues to be productive. 2023 survey numbers were comparable to 2022 numbers, however, more lambs were observed. It appears that sheep are starting to occupy areas a little more on the east side. In March we were able to reintroduce California bighorn sheep back into the Montana Mountains. Going forward, surveys, population modelling and quotas will be separate for the Montana Mountains and Double H Mountains. With average ram age still not back to long-term average and only limited mature rams on survey, recommending 1 less tag.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 032
Pine Forest & Pueblo Mtn

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	76	11	4		219	130	8	7
2022-2023	148	11	5		191	120	9	6
2023-2024	160	13	4		191	117	8	6
Trend	up	up	down					

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	10	6	84%		15	0		10
2022	10	6	100%		9	0		
2023	4	4.5	66%		9	0		
Trend	down	down	down					

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2020				11		1	
2022				9		1	
2023				7		1	
Trend				down			

Ram Quota Recommendations

Total Ram Quota			Res		NR		% Unit Split	Unit(s)	Resident			Nonresident	
	Early %	Late %	Res %	NR %	Archery	Early			Late	Early	Late		
5	100%	0%	80%	20%	100%	032		4			1		
	Archery				0%								

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

Unit 032 aerial survey classified a good number of sheep (160) but only a limited number of rams were observed. Lamb ratios continue to be at a level to allow for some population growth the last couple years. This population is showing a strong younger age class of rams and should provide some good opportunity in a few years. Most hunt metrics in 2023 were below standard: 4.5 average age, 66% hunter success, and 9 days average hunting. Based on these metrics, a 1 tag decline is recommended.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 033, 032
Sheldon NWR & McGee Mtn

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	36	2	2		115	70	4	3
2022-2023	72	9	4		115	63	4	3
2023-2024	111	9	6		130	83	5	4
Trend	up	stable	up		up	up	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	1	2	33%		13.3			
2022	1	5	50%		8.5			
2023	0	-	0%		5			
Trend	down		down		down			

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				3			
2022				2			
2023				2			
Trend				down			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
3	100%	0%	100%	0%	100%	033, 032		3		0	
	Archery	0%			0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 160

This year the sheep population on the Sheldon increased to a population estimate of 130. The number of sheep seen on survey continues to improve, including six mature rams and nine rams in the 4-5 year old category. Several years of unsuccessful hunters in the unit has contributed to an increase of available rams on the Sheldon, which is why NDOW is recommending to increase the quota to 3.

Reporting Biologist: Jon Ewanyk

Supervisor: Cooper Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 034

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	90	6	1		212	127	9	7
2022-2023	57	2	1		209	127	8	7
2023-2024	136	12	1		228	136	9	7
Trend	up	up	stable					

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	7	8	64%		11			
2022	9	6	100%		8			
2023	4	5.5	67%		11			
Trend	down	down	down					

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2020				10		1	
2022				8		1	
2023				5		1	
Trend				up			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
6	100%	0%	85%	15%	100%	034		5		1	
	Archery				0%						

Ewe Removal Recommendations									
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags	

Quota and Population Objective Rationale Population Objective: **300+**

Unit 034 was surveyed once again this year with survey numbers looking much better than last year. Ram ratios are still low, with only 1 mature ram detected. Lamb ratios continue to improve. There is a strong age class of young rams coming up the ranks in a few years. But all hunt metrics are trending down or below standard: 5.5 average ram age, 67% hunter success, and 11.3 average hunt days. Recommend status quo on the ram quota.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: **035 Jacksons**

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2017-2018	88	7	0		203	121	6	7
2020-2021	106	8	3		239	141	9	8
2022-2023	165	23	9		260	154	11	8
2023-2024	224	24	13		272	158	11	9
Trend	up	up	up					

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2017	4	6.75	100%		6.75			
2020	9	8	82%		4			
2022	10	7	100%		26			
2023	6	7	77%		18			
Trend	down	stable	down					

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2017				3		1	
2020				10		1	
2022				8		1	
2023				8		1	
Trend				up			

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
8	100%	0%	90%	10%	100%	85 Jacksons		7		1	
	Archery				0%						

Ewe Removal Recommendations								
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: **400**

Unit 035 has been doing extremely well over the last few years. There has been a substantial increase in the number of animals surveyed the last couple of years with this year producing the most animals ever surveyed. Age classes are still strong in the ram segment of the population. Sheep have distributed themselves well within the Jackson Mountains with many subpopulations available. This year should provide another good opportunity for harvest.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California Unit Group: **035, Bloody Run Hills** Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2021-2022	26	0	0		49	33	2	1
2022-2023	44	8	2		62	38	1	2
2023-2024	57	8	4		70	42	1	2
Trend	up	stable	up					

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2021	0							
2022	0							
2023	0							
Trend	stable	stable	stable					

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2021				0			
2022				0			
2023				1			
Trend							

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
1	100%	0%	90%	10%	100%	Bloody Ru		1		0	
Archery					0%						

Ewe Removal Recommendations					2023%			
Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 200

The Bloody Run portion of this unit was established in 2019 and is showing great recruitment and good quality rams. Ram ratios have dropped from last year's survey but in line with a growing herd. Lamb production remains good for the Bloody Run portion of this unit. The Bloody Runs are now modeled and surveyed separate from the Jackson population. This herd continues to do well with a good ram age distribution and should provide good opportunity this year.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies: California

Unit Group: 051

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	134	21	6		125	78	9	5
2022-2023	105	7	3		95	60	4	3
2023-2024	0	0	0		113	70	5	3
Trend	down	down	down		up	up	down	down

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	2	8	67%		5			
2022	2	7	100%		10			
2023	2	5.5	100%		8			
Trend	stable	down	stable		down			

Previous Quotas

	Ewes Res	Ewes NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2020				3			
2022				2			
2023				2			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Resident			Nonresident	
							Archery	Early	Late	Early	Late
2	100%	0%	100%	0%	100%	051		2		0	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective: 400

Unit 051 was not surveyed during this year's flights. The test and remove project continues in the Santa Rosa Range with additional animals being tested in both the summer and winter. The hope is to remove the last remaining chronic shedders of M.ovi. so that lamb survival will bounce back to long-term averages and allow for populaion increase. Still adequate mature rams for 2 tags.

Reporting Biologist: Partee

Supervisor: Munson

Bighorn Sheep Quota Recommendation Form

Subspecies California Bighorn

Unit Group: 68

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2020-2021	101	4	1		150	69	10	6
2021-2022	115	20	13		150	75	8	6
2022-2023	0	0	0		180	84	11	7
2023-2024	128	20	12		195	92	14	8
Trend	up	stable	stable		up	up	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2020	12	7.2	100%		5.25	1	100%	14
2021	7	7.8	100%		10	0	0%	0
2022	7	6.7	100%		3.7	0	0%	0
2023	6	7.6	100%		5.2	0	0%	15
Trend	stable	down	stable		down	down	down	stable

Previous Quotas	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2020	1			8		1	
2021	0			5		1	
2022	0			5		1	
2023	0			5		1	
Trend	stable			stable		stable	

Ram Quota Recommendations							Resident			Nonresident	
Total Ram Quota	Early %	Late %	Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late
6	100%	0%	90%	10%	100%	68		5		1	
Archery					0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2022% Succ	Res Tags	NR Tags
0			0					

Quota and Population Objective Rationale

Population Objective:

The recommended 2024 ram quota of 6 is slightly conservative to account for the possibility of a specialty tagholder harvesting a ram from this unit, as has been the case in recent years, likely resulting in 7 total rams harvested in 2024. While the harvest guideline of 8% of total rams would recommend 8 rams tags in 2024, the bulk of the age structure of this herd is skewed young. The recommended 6 tags does not take advantage of all 8% of total rams (8 rams harvested) and gives the larger cohort of younger rams, 5-years old and younger, one more year which will hopefully result in higher average age from harvest in subsequent hunts. That being said, the percentage of 6+ year old rams within the population in 2024 should be representative of a quality hunt.

Reporting Biologist: Allen

Supervisor: Roberts

Bighorn Sheep Quota Recommendation Form

Subspecies: Rocky Mtn Bighorn

Unit Group: 102

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2019-2020	29	1	2		40			
2021-2022	39	4	3		60	35	3	2
2023-2024	32	4	5		70	40	4	2
Trend					up			

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2019								
2021								
Trend	up							

Previous Quotas

	Ewes Res	Ewes NR	Ram Resident			Ram Nonresident	
			Archery	Early	Late	Early	Late
2019							
2021							
2023				1			
Trend				stable			

Ram Quota Recommendations

Total Ram Quota	Early %	Late %	Resident				Nonresident					
			Res %	NR %	% Unit Split	Unit(s)	Archery	Early	Late	Early	Late	
2	100%	0%	100%	0%	100%	102		2			0	
	Archery				0%							

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

No aerial survey this year due to weather conditions and a shortened flight schedule statewide. A few minutes of spring deer survey was used to classify group of bighorn in Lamoille Canyon. Seitz Canyon was unfliable due to wind but likely had a group. With 8 years of strong recruitment (>50 lambs:100 ewes) this herd is finally showing meaningful growth. There were 15 rams classified on 2023-2024 survey, and 5 were mature rams. Multiple known and identifiable mature rams were not observed on this survey. With the continued high lamb recruitment and strong age structure in the ram segment of the population, an increase to 2 tags is recommended for 2024.

Reporting Biologist: Kirk

Supervisor: Roberts

Bighorn Sheep Quota Recommendation Form

Subspecies: Rocky Mountain

Unit Group: 115

Year 2024

Survey and Model Results

Year	Survey Total	Survey 4-5 yr old Rams	Survey 6+ yr old Rams		Pop Estimate	1+ Ewes Population	50% 6+ yr old Rams	8% of 1+ Rams
2018-2019	9	2	1		50	30	3	2
2020-2021	8	0	0		70	39	3	2
2023-2024	28	4	1		75	44	5	3
Trend	up	down	up		up	up	up	up

Hunt Results and Translocation Removal

Year	Rams Harvested	Average Age Harvested Rams	% Ram Hunter Success		Avg Days Hunted	Ewes Harvested	% Ewe Hunter Success	Ewes Nonlethal Removal
2018	1	7	100%		7			
2021	2	8.5	100%		13.5			
2023	1	9	100%		35			
Trend	stable	up	stable		up			

Previous Quotas

	Ewes		Ram Resident			Ram Nonresident	
	Res	NR	Archery	Early	Late	Early	Late
2018				1			
2021				2			
2023				1			
Trend				down			

Ram Quota Recommendations

Total Ram Quota			% Unit Split				Resident			Nonresident	
	Early %	Late %	Res %	NR %	Unit(s)	Archery	Early	Late	Early	Late	
1	100%	0%	100%	0%	115		1		0		
	Archery				0%						

Ewe Removal Recommendations

Total Ewe Objective	# Reduce	% Reduce	Nonlethal		Harvest	2023% Succ	Res Tags	NR Tags

Quota and Population Objective Rationale

Population Objective:

Harvest success has been 100% since 2021, with an average of rams harvested at 8 years. Average number of days hunted during the same timeframe is 15.6 days per hunter. Survey efforts resulted in poor sample size in 2019, 2021, and 2022 and record survey sample sizes in 2020 and 2023. The inconsistent survey data makes it difficult to accurately model this population. Due to high hunter success, high hunter effort days, and poor surveys, caution is being exercised and only one tag is being recommended for 2024.

Reporting Biologist: Menghini

Supervisor: Roberts

Mountain Goat Quota Recommendation Form

Subspecies: Mountain Goat Unit Group: 101 Year 2024

Survey and Model Results

Year	Survey Total	Survey Adults	Survey Kids	Kids/100 Ads	Pop Estimate
2019-2020	28	26	2	8	50
2021-2022	20	18	2	11	55
2023-2024	45	32	13	41	65
Trend	down	down	down	down	down

Hunt Results and Translocation Removal

Year	Billy Harvest	Billy Avg Age	Nanny Harvest	Nanny Avg Age	Total Harvest	% Hunter Success
2019	1	7.0	NA	NA	1	100%
2021	1	7.0	NA	NA	1	100%
2023	0	NA	1	2.0	1	100%
Trend	stable		stable		stable	stable

Previous Quotas

Year	Resident	Nonresident
2019	1	0
2021	1	0
2023	1	0
Trend	stable	

Any Mountain Goat Quota Recommendations

Total Quota	Res %	NR %	Resident	Nonresident
1	100%	0%	1	0

Quota and Population Objective Rationale

Population Objective: NA

The 2023-2024 survey results in Unit 101 yielded a very exciting sample of 45 mountain goats with a ratio of 41 kids:100 adults. Of the 4 collared adults, 3 of them were observed. The survey showed exceptional recruitment with 13 kids, and 5 yearlings being classified. In February and March 2024, 5 adults were collared, and one additional unmarked adult and kid were sampled. Preliminary results from the sampling efforts showed that 5 of the 6 adult mountain goats were exposed to a pathogen at some point in their life but are not currently shedding it. Regarding quotas, Unit 101 will remain status quo with one tag for the 2024 hunting season. Continued above maintenance kid recruitment in concert with increased adult survival are needed prior to a quota increase.

Reporting Biologist: Kirk Supervisor: Roberts

Mountain Goat Quota Recommendation Form

Subspecies: Mountain Goat Unit Group: 102 Year 2024

Survey and Model Results

Year	Survey Total	Survey Adults	Survey Kids	Kids/100 Ads	Pop Estimate
2019-2020	104	87	17	20	200
2021-2022	171	128	43	34	240
2023-2024	NA	NA	NA	--	240
Trend	down	down	down	down	stable

Hunt Results and Translocation Removal

Year	Billy Harvest	Billy Avg Age	Nanny Harvest	Nanny Avg Age	Total Harvest	% Hunter Success
2019	4	6.0	0	NA	4	67%
2021	2	4.0	1	4.0	3	43%
2023	9	4.9	3	5.7	12	100%
Trend	up	stable	up		up	

Previous Quotas

Year	Resident	Nonresident
2019	6	0
2021	7	0
2023	10	1
Trend	stable	up

1 Silver State

Any Mountain Goat Quota Recommendation

Total Quota	Res %	NR %	Resident	Nonresident
14	90%	10%	12	1

1 Silver State

Quota and Population Objective Rationale

Population Objective: NA

Aerial mountain goat surveys were hindered in January 2024 by inconsistent windy and snowy conditions coupled with limited survey time across the state. This resulted in the total abandonment of the Unit 102 survey. However, on the ground and credible observations during the 2024 hunting season indicated high recruitment rates throughout Unit 102. Of the 12 hunters in 2023, all of them were successful and harvested a total of 9 billies and 3 nannies. After further assessing survey and harvest data post-die-off, there is greater confidence in adult survival rates for Unit 102 to have supported a slight increase in tags in 2023, and again for the upcoming 2024 hunting season. One tag will again be allocated to the nonresident pool, and one tag will be allocated to the Silver State Tag Program.

Reporting Biologist: Kirk Supervisor: Roberts

Mountain Goat Quota Recommendation Form

Subspecies: Mountain Goat Unit Group: 103 Year 2023

Survey and Model Results

Year	Survey Total	Survey Adults	Survey Kids	Kids/100 Ads	Pop Estimate
2019-2020	NA	NA	NA	--	40
2021-2022	10	9	1	11	45
2023-2024	18	14	4	29	50
Trend	stable	stable	stable	stable	up

Hunt Results and Translocation Removal

Year	Billy Harvest	Billy Avg Age	Nanny Harvest	Nanny Avg Age	Total Harvest	% Hunter Success
2019	NA	NA	1	12.0	1	100%
2021	1	5.0	0	NA	1	100%
2023	0	NA	0	NA	0	0%
Trend	down		stable		down	

Previous Quotas

Year	Resident	Nonresident
2019	1	0
2021	1	0
2023	1	0
Trend	stable	stable

Any Mountain Goat Quota Recommendations

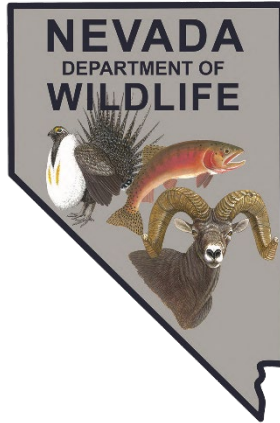
Total Quota	Res %	NR %	Resident	Nonresident
1	100%	0%	1	0

Quota and Population Objective Rationale

Population Objective: NA

Aerial mountain goat surveys were hindered in January 2024 by inconsistent windy and snowy conditions coupled with limited survey time across the state. This resulted in the total abandonment of the Unit 103 survey. Incidental mountain goat observations from fall and spring deer surveys indicated fair kid recruitment. A total of 14 adults and 4 kids were observed yielding 29 kids:100 adults. For the second year in a row, the successful applicant was unsuccessful in harvesting a mountain goat. The lack of consecutive harvest is abnormal and will be monitored. This herd continues to maintain and will allow for the same quota levels.

Reporting Biologist: Kirk Supervisor: Roberts



2024-2025 Mule Deer Quota Recommendation Forms
(Accompanies Commission Regulation 24-12)

Mule Deer Quota Recommendation Form

Unit Group: 011-013

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	45	78	29	152	253	70	323	58	37	24	28	35	48	900
2022-2023	82	159	92	333	187	45	232	52	58	38	24	33	45	750
2023-2024	20	65	30	115	-	-	-	29	46	35	-	44	54	700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	42%		20%	61%				49%	3	100%	57%	50%
2022-2023	0%		50%	46%				43%	3	67%	60%	50%
2023-2024	33%		75%	33%				62%	0	50%	62%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2	7	1	50	3	--	--	--	--	0	30	3	4
2023-2024	15	1	4	1	35	2	--	--	--	--	0	15	2	4
2024-2025	15	2	5	1	36	2	--	--	--	--	0	15	2	2
Tag Trend	=	INC	INC	=	INC	=	=	=	=	=	=	=	=	DEC

Quota Rationale

This years flight time was reduced for Management Area 1, and no spring deer surveys were conducted. Deer in unit grouping 011-013 continue to occur at low density and the population estimate is slightly lower than the previous year due to continued winter loss from the previous harsh winter. Hunt success has decreased for the past three consecutive years, however the three year average is still at 47%. Similarly, four point or better in the harvest has remained consistent for the past three years. As a result, NDOW is recommending similar quotas for this year. Last year there was one deferred resident ALW tag which was added to the quotas.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 014

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	22	44	22	88	52	9	61	50	50	33	17	42	49	250
2022-2023	33	62	37	132	97	30	127	53	60	39	31	49	57	290
2023-2024	17	59	33	109	-	-	-	29	56	43	-	54	61	300

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	43%		0%	58%				50%	1	0	63%	
2022-2023	50%		50%	38%				29%	0	n/a	100%	
2023-2024	0%		0%	63%				57%	0	100%	0%	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Junior Primitive	Junior ALW	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	2	1	2	1	8	1	--	--	--	--	0	2	0	0
2023-2024	2	1	2	1	8	1	--	--	--	--	0	3	1	0
2024-2025	4	1	5	1	9	1	--	--	--	--	2	3	1	1
Tag Trend	INC	=	INC	=	INC	=	=	=	=	=	INC	=	=	INC

Quota Rationale

This years flight time was reduced for Management Area 1, which resulted in a smaller sample size located on fall survey and no spring deer surveys were conducted. Hunt unit 014 is managed as an alternative hunt unit, and this past year it hit all 3 of the alternative unit metrics. Unit 014 has a three year average buck ratio of 44 bucks:100 does, a three year success average of 53%, and a four point or better average of 45%. As a result, NDOW is recommending keeping tags similar to last year, with nominal increases to keep fulfilling the metrics of an alternative unit.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 015

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0	215	61	276	--	--	--	28	48	55	190
2022-2023	18	22	18	58	228	120	348	82	82	45	53	51	60	200
2023-2024	--	--	--	--	--	--	--	--	--	--	--	48	50	200

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	0%		40%			29%		80%	1	100%	44%	0%
2022-2023	33%		20%			9%		50%	0	n/a	50%	
2023-2024	0%		50%			29%		63%	0	0%	33%	--

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	3	2	5	1	15	2	--	--	--	--	0	5	0	0
2023-2024	3	1	5	1	10	1	--	--	--	--	0	3	2	0
2024-2025	2	1	1	1	10	1	--	--	--	--	0	3	1	0
Tag Trend	DEC	=	DEC	=	=	=	=	=	=	=	=	=	DEC	=

Quota Rationale

Due to this year's budget constraints, no surveys occurred in hunt unit 015. Deer in hunt unit 015 occur at a low density and still receive a small influx of deer from California during the winter months. Unit 015 is managed as a non-standard hunt unit, which targets a hunt success rate of 35-45% success. The three year average success is 22%, however the number of four points or greater in the harvest remains high with a three year average of 64%. As a result, NDOW is recommending similar quotas to the year prior.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 021

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	31	76	53	160	645	231	876	41	70	50	36	35	42	400
2022-2023	28	80	52	160	530	232	762	35	65	48	44	37	50	380
2023-2024	18	70	27	115	--	--	--	26	39	31	--	44	49	450

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	7%	--	60%	--	--	46%		59%	1	0%	46%	--
2022-2023	15%	--	75%	--	--	39%		50%	1	100%	75%	--
2023-2024	14%	--	40%	--	--	56%		57%	1	--	71%	--

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2	5	1	--	--	--	--	30	2	0	15	2	0
2023-2024	15	1	5	1	--	--	--	--	20	1	0	7	2	0
2024-2025	20	2	4	1	--	--	--	--	28	2	0	9	1	0
Tag Trend	INC	INC	DEC	=	=	=	=	=	INC	INC	=	INC	=	=

Quota Rationale

This years flight time was reduced for Management Area 2, which resulted in a smaller sample size located on fall survey and no spring deer surveys occurred. Three consecutive years of quality fawn recruitment has lead to an increase in the population estimate for unit 021. Harvest metrics for unit 021 remain stable, with a three year average of 47% success and a three year average of four point in the This unit is managed as non standard, targeting 35-45% success. The three year average for success is 47%, warranting an increase in tags to keep success rates between 35-45%. Last year there were three resident ALW tags that were deferred which were added to the quota.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 022

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	14	28	19	61	30	10	40	50	68	45	33	30	42	500
2022-2023	31	66	46	143	143	60	203	47	70	47	42	36	44	500
2023-2024	17	42	27	86	--	--	--	40	64	46	--	52	55	525

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	13%	--	60%	49%	--	--		45%	2	50%	64%	100%
2022-2023	40%	--	20%	56%	--	--		35%	1	0%	50%	--
2023-2024	20%	--	75%	63%	--	--		39%	0	DNR	43%	--

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	6	2	5	1	35	2	--	--	--	--	0	15	2	0
2023-2024	6	1	5	1	35	2	--	--	--	--	0	15	2	0
2024-2025	15	2	6	1	41	2	--	--	--	--	0	20	2	0
Tag Trend	INC	INC	INC	=	INC	=	=	=	=	=	=	INC	=	=

Quota Rationale

This years flight time was reduced for Management Area 2, which resulted in a smaller sample size located on fall survey and no spring deer surveys occurred. The mule deer population in unit 022 remains stable, and buck ratios have been high the past three years of surveying. Harvest success has increased the past three years, and the unit has fairly consistent four point or better in the harvest (three year average of 40%). As a result, NDOW is recommending a slight increase in quotas for unit 022. Last year there was one resident ALW tag deferred which was added to the quota.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 031

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	34	106	47	187	638	147	785	32	44	34	23	27	36	1,800
2022-2023	171	611	239	1,021	602	153	755	28	39	31	25	28	38	1,700
2023-2024	29	100	56	185	638	222	860	29	56	43	35	27	39	1,700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	30%		60%	58%				39%	7	63%	70%	64%
2022-2023	25%		75%	66%				34%	3	100%	79%	50%
2023-2024	33%		75%	64%				43%	0	100%	46%	50%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2	4	1	90	4						35	6	18
2023-2024	9	1	4	1	85	5						30		13
2024-2025	31	3	15	1	86	6						45	3	11
Tag Trend	INC	INC	INC	=	INC	INC	=	=	=	=	=	INC	DEC	DEC

Quota Rationale

Both fall and spring flights were conducted in this unit. Fall surveys were much lower than last year, however, they were in line with two years prior. Spring surveys were much the same the last two years. Success rates remain high in this unit with the 4-point class rising the last couple of years. With the success rates over the last three years and the new standardized demand we are seeing an increase in the primitive weapon class.

Reporting Biologist: Partee

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 032

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	23	98	44	165	261	74	335	23	45	36	28	28	38	750
2022-2023	28	98	41	167	289	70	359	29	42	33	24	28	38	650
2023-2024	6	45	17	68	179	73	252	13	38	33	41	30	42	650

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	5%		0%	41%				41%	4		45%	75%
2022-2023	17%		40%	25%				21%	6		65%	100%
2023-2024	6%		67%	50%				33%	0		30%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	30	3	7	1	70	7						40	3	3
2023-2024	20	2	4	1	40	2						15		7
2024-2025	30	4	10	1	43	3						20	2	6
Tag Trend	INC	INC	INC	=	INC	INC	=	=	=	=	=	INC	DEC	DEC

Quota Rationale

Unit 032 was flown in both the fall and spring this year. Fall surveys numbers were down with lower-than-average buck ratios. Spring surveys were slightly down from the last couple of years but showed good fawn ratios at that time. Snow conditions have been high the last couple of years providing ample forage throughout the year. Success rates remain good for most of the weapon classes with the 4-point or greater class starting to creep up slowly. Tag numbers have dropped over the years as well as population adjustments.

Reporting Biologist: Partee

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 033

Date Prepared: 3/31/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	34	44	30	108	35	13	48	77	68	38	37	34	48	320
2022-2023	50	96	73	219	25	5	30	52	70	50	20	33	45	300
2023-2024	29	70	36	135	-	-	-	41	51	36	-	44	54	300

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	10%		40%	65%				40%		0%	60%	--
2022-2023	0%		60%	60%				39%		100%	83%	--
2023-2024	20%		20%	57%				29%		100%	50%	--

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	5	2	5	1	15	2	--	--	--	--	0	6	1	0
2023-2024	7	1	5	1	15	1	--	--	--	--	0	5	1	0
2024-2025	15	1	3	1	20	1	--	--	--	--	0	6	1	0
Tag Trend	INC	=	DEC	=	INC	=	=	=	=	=	=	INC	=	=

Quota Rationale

The mule deer population on the Sheldon remains stable, despite deer occurring at low density. On survey, high buck to doe ratios and high fawn to doe ratios were observed for the third straight year. Harvest metrics remain stable for hunt unit 033, with a three year average of 61% success. As a result of the high observed buck ratio, NDOW recommends a slight increase in tags for hunt unit 033.

Reporting Biologist: Ewanyk

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 034

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	23	98	44	165	261	74	335	23	45	36	28	28	38	180
2022-2023	29	98	41	168	289	70	359	30	42	32	24	28	38	160
2023-2024	6	45	17	68	179	73	252	13	38	33	41	30	42	160

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	0%		20%	32%				22%	0	50%	75%	50%
2022-2023	0%		0%	55%				36%	0	50%	50%	90%
2023-2024	14%		50%	6%				75%	0	50%	100%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	5	2	2	1	20	2						5	2	6
2023-2024	8	1	2	1	20	1						4		9
2024-2025	6	1	3	1	15	1						4	1	3
Tag Trend	DEC	=	INC	=	DEC	=	=	=	=	=	=	=	DEC	DEC

Quota Rationale

This year was a struggle with fall surveys and locating animals. This population continues to be adjusted down to match what this herd is doing. Rifle success was at an all time low with only one successful hunter. Overall, with all weapon classes we saw an increase in 4-point class which may be skewed due to the low harvest number. Observed post season buck ratios are way down with the modeled in line with management objectives. This unit should see a drop in the number of tags recommended.

Reporting Biologist: Partee

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 035

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	17	67	26	110	128	40	168	25	39	31	31	22	35	650
2022-2023	34	115	49	198	71	26	97	30	43	33	37	26	34	600
2023-2024	18	50	28	96	158	59	217	36	56	41	37	29	40	550

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	7%		29%	39%				26%	3	33%	38%	67%
2022-2023	21%		0%	28%				34%	2	100%	52%	100%
2023-2024	13%		0%	46%				38%	0	DNH	57%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	20	2	3	1	30	2						25	3	2
2023-2024	20	2	2	1	40	2						15		4
2024-2025	20	2	5	1	30	2						10	2	2
Tag Trend	=	=	INC	=	DEC	=	=	=	=	=	=	DEC	DEC	DEC

Quota Rationale

Surveys in this unit took place in both the fall and spring this last year. Most of the sample for this unit is coming from a small portion of the unit. Both buck and fawn ratios were above the last few years. Rifle success increase from last year with the 4-point or better class showing signs of improvement. This population has been modified down over the last several years to get in line of what is seen on the landscape. With the fixed demand and the slightly better success we are not seeing a need to drop from last years quota but to track it in the coming years.

Reporting Biologist: Partee

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 041, 042

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			650
2022-2023				0			0	--	--	--	--			600
2023-2024				0			0	--	--	--	--			600

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	15%		18%	15%				30%	0	0%	32%	no tags
2022-2023	7%		42%	80%				53%	1	100%	36%	no tags
2023-2024	0%		0%	57%				27%	0	100%	89%	no tags

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	15	2	10	2	8	1						15	2	0
2023-2024	15	2	5	2	8	2						10	2	
2024-2025	15	2	5	2	10	2						10	1	
Tag Trend	=	=	=	=	INC	=	=	=	=	=	=	=	DEC	=

Quota Rationale

This population is not modeled or surveyed. According to NDOW management objectives, this unit group is managed conservatively to achieve a Resident Any Legal Weapon (ALW) Hunt success rate of greater or equal to 45%. Last year's success rate was 57%, with the 3-year average of 51%. An increase of 2 ALW Resident tags is recommended due to exceeding management objectives. The population level is thought to be low and stable.

Reporting Biologist: Kyle Neill

Supervisor: Cooper Munson

Mule Deer Quota Recommendation Form

Unit Group: 043 044 046

Date Prepared: 3/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	62	195	97	354			0	32	50	38	--	27	35	1,100
2022-2023	70	294	136	500			0	24	46	37	--	26	37	1,000
2023-2024					448	148	596				33	29	41	1,000

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	6%		33%	38%		32%		34%	11	100%	57%	
2022-2023	11%		50%	39%		56%		36%	9	50%	62%	0%
2023-2024	10%		35%	42%				32%	1	100%	60	50%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	70	8	20	2	80	6			35	2		70	3	1
2023-2024	50	5	20	1	65	4						25	3	4
2024-2025	45	5	20	2	65	4						20		1
Tag Trend	DEC	=	=	INC	=	=	=	=	=	=	=	DEC	=	DEC

Quota Rationale

NDOW Harvest Guidelines suggests Units 043 044 046 as a standard management unit for mule deer to be managed for approximately a 30 bucks: 100 does post-season ratio. However, recommend using a post-season buck ratio objective of 33 bucks: 100 does. Rationale: Last year's 4-points or greater bucks harvested for all hunts was 32%. This value was 33% in 2022 and 30% in 2021. The 2023 statewide average value was 42%. The statewide figure is near or greater than 40% every year. In Units 043 044 046, the 4-points or greater buck harvest for next year is expected to be similar or lower to previous years. This theory is based on the population model for the unit group that shows 42% of the buck segment as yearlings. Therefore, using a higher post-season buck ratio objective is desired to aid in achieving an older age buck segment to improve percentage of 4-point or greater bucks to near statewide averages. Additionally, this herd has also been below the post-season buck ratio objective of 30 bucks: 100 does. The last post-season survey was in 2022 (Units 043 044 046) and resulted in a buck ratio of 24 bucks: 100 does. Furthermore, the post-season buck ratio in 2021 (Units 043 044 046) was measured at 26 bucks: 100 does. A post-season aerial survey will be recommended in 2024 to assess the buck ratio.

Reporting Biologist: Kyle Neill

Supervisor: Cooper Munson

Mule Deer Quota Recommendation Form

Unit Group: 045

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			
2022-2023				0			0	--	--	--	--			350
2023-2024				0			0	--	--	--	--			350

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022												
2022-2023								53%				
2023-2024	9%		11%	56%				58%		100%	56	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023														1
2023-2024	15	1	10	2	20	2						10	2	1
2024-2025	15	2	10	2	20	2						10	1	
Tag Trend	=	INC	=	=	=	=	=	=	=	=	=	=	DEC	=

Quota Rationale

Starting in 2023 and on, this population will not be modeled or surveyed. According to NDOW management objectives, this unit is to be managed conservatively to achieve a Resident Any Legal Weapon Hunt success rate of > or = 45%. Unit 045 was split out of Unit Group 043-046 due to consistently demonstrating a higher post-season buck ratio than adjacent units. 2024 recommended quotas are designed to achieve an overall harvest of 20 - 30 bucks per year and an ALW Resident Hunt success rate of > or =45%. Last year's total buck harvest for all hunts was 19 with a Resident ALW success rate of 58%. Long-term (1997-2023) average buck harvest for Unit 045 is 22 bucks/ year. All 2024 Recommended quotas will remain the same as last year to establish a 3-year average.

Reporting Biologist: Kyle Neill

Supervisor: Cooper Munson

Mule Deer Quota Recommendation Form

Unit Group: 051

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	68	175	68	311	535	182	717	39	39	28	34	28	39	2000
2022-2023	40	168	87	295	420	134	554	24	52	42	32	29	40	1900
2023-2024	56	132	65	253	385	143	528	42	49	35	37	26	39	1,800

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	30%		40%	45%				42%	8	67%	48%	61%
2022-2023	17%		24%	53%				49%	24	88%	63%	82%
2023-2024	9%		55%	55%				55%	0	100%	54%	67%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	25	3	20	2	160	8					25	65	9	21
2023-2024	30	3	15	1	140	9					0	50		18
2024-2025	50	5	20	2	110	6					0	50	6	12
Tag Trend	INC	INC	INC	INC	DEC	DEC	=	=	=	=	=	=	DEC	DEC

Quota Rationale

051 has remained stable the last several years. With the good amount of moisture received the last couple of years this herd should see good recruitment into the population. Success rates remain high with the 4-point or better class increasing yearly. The fixed demands are having a slight impact on primitive weapon classed along with the lower success. With the higher success in the any legal weapon. We are recommending a lower quota for this area. Post season buck ratios are in line with management objectives.

Reporting Biologist: Partee

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 181-184

Date Prepared: 3/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0	105	33	138	--	--	--	31	30	42	1,200
2022-2023				0	59	17	76	--	--	--	29	27	42	1,100
2023-2024	111	293	115	519	160	48	208	38	39	28	30	33	37	1,200

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	4%		38%	33%				49%			52	
2022-2023	15%		53%	40%				44%			48	
2023-2024	14%		71%	36%				50%			44	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	60	6	15	1	150	8						70	6	
2023-2024	35	4	9	1	130	8						40	6	
2024-2025	60	7	15	2	150	10						60		
Tag Trend	DEC	INC	INC	INC	INC	INC	=	=	=	=	=	INC	=	=

Quota Rationale

Used a post hunt buck ratio of 30 bucks /100 does. Last year's success of 40% is within the long term average for this unit group. 44% of the bucks harvested were 4 point or better and is above the statewide average of 38%. Tag quotas are similar to what was recommended last year.

Reporting Biologist: Salisbury

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 192

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	16	86	28	130			0	19	33	27	--	42	50	500
2022-2023				0	88	25	113	--	--	--	28	50	51	450
2023-2024	21	125	28	174	154	38	192	17	22	19	25	41	49	450

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	27%	28%	43%	62%				48%	1	100%	47%	NA
2022-2023	20%	56%	0%	56%				27%	1	0%	55%	NA
2023-2024	20%	24%	16%	51%				40%	0	0%	71%	NA

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late Archery Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2	10	1	55	4			20	3		25	0	0
2023-2024	15	2	15	2	55	4			20	1		25	2	0
2024-2025	10	1	20	2	40	3			10	1		15	1	0
Tag Trend	DEC	DEC	INC	=	DEC	DEC	=	=	DEC	=	=	DEC	DEC	=

Quota Rationale

Deer populations in the Carson Range continue to slowly decline. Success rates and point class were lower last year but not significantly lower than the long term average. Urban encroachment, with the accompanying recreation, is having a negative impact. There are increasing numbers of mature bucks staying in the urban-wildland interface, which means they are in the population but not available to harvest.

Reporting Biologist: Lackey

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 194-196

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	15	76	16	107			0	20	21	18	--	30	41	780
2022-2023				0	417	81	498	--	--	--	19	31	39	700
2023-2024	20	82	22	124	332	66	398	24	27	22	20	29	39	630

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	50%	53%	60%	89%				63%	0	100%	79%	NA
2022-2023	33%	38%	63%	85%				65%	1	50%	90%	NA
2023-2024	32%	45%	85%	83%				63%	0	0%	78%	NA

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late Archery Hunt		Junior Primitive	Junior ALW	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	6	2	5	1	35	2			9	2		20	2	0
2023-2024	4	1	5	1	35	2			15	1		20	2	0
2024-2025	7	1	4	1	30	1			7	1	10	10	2	0
Tag Trend	INC	=	DEC	=	DEC	DEC	=	=	DEC	=	INC	DEC	=	=

Quota Rationale

This population continues to slowly decline. Looking at 10yr averages in buck and fawn ratios, there has been a noticeable decline in both metrics since 2012 compared to the previous 10yr period, with significant declines the last couple of years. Fires and urban encroachment have taken their toll. Success rates and point class remain strong in this unit. The new fixed-demand percentages and high success rates are driving the quotas down more than is probably necessary. There is an increasing number of mature bucks as resident deer within the urban-wildland interface where they are unavailable to harvest.

Reporting Biologist: Lackey

Supervisor: Munson

Mule Deer Quota Recommendation Form

195

Date Prepared: 2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			500
2022-2023														250
2023-2024														250

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	25%		0%	74%				48%	0	100%	38%	NA
2022-2023	20%		25%	25%				41%	1	NA	67%	NA
2023-2024	25%		0%	13%				27%	0		60%	NA

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	5	2	5	1	25	2						10	0	0
2023-2024	5	1	5	1	15	2						10	0	0
2024-2025	3	1	3	1	10	2						4	0	0
Tag Trend	DEC	=	DEC	=	DEC	=	=	=	=	=	=	DEC	DEC	=

Quota Rationale

There has been much variation in both point class and success rates, with a drop in both in 2023. The BLM now estimates around 4,000 feral horses in the Virginia Range. The substantial increase over the last few years undoubtedly has had an effect on the deer population. The estimate has been reduced accordingly. A slight reduction in tags reflects this.

Reporting Biologist: Lackey

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 201-204

Date Prepared: 3/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			600
2022-2023				0			0	--	--	--	--			500
2023-2024				0			0	--	--	--	--			550

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	33%	50%	60%	68%				45%			75	
2022-2023	0%	60%	40%	71%				30%			100	
2023-2024	0%	60%	0%	53%				40%			83	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late Archery Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	5	2	2	1	20	2			5	2		7		
2023-2024	5	2	1	1	20	2			10	1		6		
2024-2025	7	2	2	2	20	2			10	2		8		
Tag Trend	INC	=	=	INC	=	=	=	=	=	INC	=	INC	=	=

Quota Rationale

Overall hunter success in the any legal weapon hunt is down. The harvest is down but 4 point or better is up. Tag quotas are similar to what was available last year. A post hunt buck ratio of 20 bucks/ 100 does was used for tag quotas.

Reporting Biologist: Salisbury

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 202-208

Date Prepared: 3/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			
2022-2023				0			0	--	--	--	--			280
2023-2024				0			0	--	--	--	--			

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022		0%	40%	60%				34%				
2022-2023		0%	60%	69%				23%				
2023-2024		0%	67%	60%				29%				

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	5	2	5	1	40	2						20	2	
2023-2024	10	2	5	2	40	2						20	2	
2024-2025	5	2	5	2	40	4						20	2	
Tag Trend	DEC	=	=	=	=	INC	=	=	=	=	=	=	=	=

Quota Rationale

60% overall hunter success in the any legal weapon hunt. The 4 point or better has increased to 29%. Tag quotas are similar to what was recommended last year

Reporting Biologist: Salisbury

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 203

Date Prepared: 3/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			600
2022-2023				0			0	--	--	--	--			500
2023-2024				0			0	--	--	--	--			448

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	38%	16%		65%				39%			75	
2022-2023	17%	31%		62%				56%			56	
2023-2024	15%	15%		33%				57%			57	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late Archery Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2			30	2			15	2		20	2	
2023-2024	15	2			25	2			15	2		15	2	
2024-2025	10	2			40	2			15	2		15	2	
Tag Trend	DEC	=	=	=	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

Used a post hunt buck ratio of 27 bucks/ 100 does. 33% success in the any legal weapon hunt with 57% being 4 point or better. Recommend a similar amount of tags compared to last year.

Reporting Biologist: Salisbury

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 291

Date Prepared: 4/1/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			600
2022-2023														850
2022-2023														850

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	36%		80%	78%				50%	1	100%	74%	NA
2022-2023	30%		67%	80%				46%	2	NA	76%	NA
2023-2024	29%		33%	64%				47%	0	0%	77%	NA

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	15	2	3	1	55	4						25	0	0
2023-2024	15	1	3	1	55	4						25	2	0
2024-2025	22	2	7	1	44	3						25		0
Tag Trend	INC	INC	INC	=	DEC	DEC	=	=	=	=	=	=	INC	=

Quota Rationale

Anecdotal reports are that this population has grown slightly since the Bison Fire in 2013. Success rates and point class are also creeping upwards. This population is not surveyed or modeled, but based on several years of increasing tag numbers while maintaining good success rates, the population estimate has been increased.

Reporting Biologist: Lackey

Supervisor: Munson

Mule Deer Quota Recommendation Form

Unit Group: 061, 062, 064, 066-068

Date Prepared: 4/10/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	378	1,004	668	2,050	3,410	1,250	4,660	38	67	48	37	38	50	8,600
2022-2023	558	1,754	941	3,253	3,047	1,050	4,097	32	54	41	34	35	45	7,900
2023-2024	555	1,642	1,227	3,424	2,489	1,092	3,581	34	75	56	44	35	50	6,400

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	20%	n/a	34%	43%	n/a	63%		38%	165	71%	66%	50%
2022-2023	22%	n/a	38%	42%	n/a	61%		35%	289	59%	59%	60%
2023-2024	10%	n/a	19%	23%	n/a	53%		38%	96	42%	50%	50%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	330	35	110	8	1,150	65	n/a	n/a	140	9	540	480	34,4	4
2023-2024	210	20	50	6	800	40	n/a	n/a	90	3	140	350	37,5	5
2024-2025	350	40	150	17	794	60	n/a	n/a	90	7	0	210	29,3	3
Tag Trend	INC	INC	INC	INC	DEC	INC	=	=	=	INC	DEC	DEC	DEC	DEC

Quota Rationale

The severity of overwinter mortality from winter 2022-2023 was underestimated last year. Collared mule deer data paired with harvest metrics suggests this population experienced a significant contraction exiting the winter of 2023. Mule deer were dying well into summer months of malnutrition and hunter success resulted in the lowest number of harvested deer since 2004, at only 398 dead bucks. The 2024 population estimate, 6,400 deer, accounts for additional mortality last winter at an approximate 29% population decline. This results in an updated 2023 estimate of 5,900 deer and represents a loss of approximately 2,000 deer over winter. Conversely, the winter of 2023-2024 has been favorable for wildlife and overwinter fawn recruitment in 2024 was the highest observed since 2012, 44 fawns:100 does. This results in an approximately 9% population growth from the historic 2023 low. This population is well below carrying capacity and antlerless harvest is not currently appropriate. Those hunts have been removed while this herd is encouraged to grow. The depressed hunter success and high fawn recruitment has resulted in a ratio of 35 bucks:100 does. These antlered quota recommendations take a step towards the 30 bucks:100 does management objective by targeting 33:100. Not going all the way to 30:100 in one year aids in rebuilding age structure as growth continues over time. Increases to the archery and muzzleloader hunts are a product of the new "Fixed-Demand" percentage allocation. Junior tags see a sharp decline due to removing the antlerless harvest eligibility from that hunt. Unrounded quotas represent deferred tag(s) from 2023 added to the rounded quota recommendation.

Reporting Biologist: Allen

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 065 Alternative Unit

Date Prepared: 4/10/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	n/a	n/a	n/a	0			0	n/a	n/a	n/a	--	n/a	n/a	650
2022-2023	n/a	n/a	n/a	0			0	n/a	n/a	n/a	--	n/a	n/a	500
2023-2024	n/a	n/a	n/a	0			0	n/a	n/a	n/a	--	n/a	n/a	500

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	40%		100%	63%				43%	0	67%	85%	n/a
2022-2023	25%		40%	70%				53%	0	67%	87%	50%
2023-2024	60%		67%	47%				43%	1	33%	56%	n/a

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	10	2	5	2	35	4						15	3	2
2023-2024	5	1	5	2	20	2						10	3	2
2024-2025	4	1	3	1	20	2						10	1	1
Tag Trend	DEC	=	DEC	DEC	=	=	=	=	=	=	=	=	DEC	DEC

Quota Rationale

Recommended quota reductions the past few years were directed at improving the declining percentage of bucks harvested supporting 4-points or better. The three-year average percentage of harvested bucks supporting 4-points or better is below the objective of 50-75%. Quota recommendations this year are aimed at improving the percentage of harvested bucks supporting 4-points or better.

Reporting Biologist: Jeffress

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 071-079, 091

Date Prepared: 4/10/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	239	968	478	1,685	2,307	794	3,101	25	49	40	34	32	44	11,000
2022-2023				0	3,301	1,020	4,321	--	--	--	31	31	41	9,400
2023-2024	385	1,687	968	3,040	2,253	884	3,137	23	57	47	39	31	41	9,300

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	21%	41%	45%	57%		70%		40%	185	65%	77%	83%
2022-2023	24%	30%	36%	54%		69%		35%	93	69%	73%	0%
2023-2024	20%	24%	41%	38%		66%		38%	47	60%	65%	67%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	240,30	25,3	80	5	750	40			190	9	105	360	36,9	1
2023-2024	190,20	20,2	40	5	550	25			140	6	50	260	30,7	5
2024-2025	300,20	35,2	140	15	700	60			80	3	0	310	20,5	2
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	DEC	DEC	DEC	INC	DEC	DEC

Quota Rationale

The Area 7 deer herd was modeled down more from the 2022-2023 population estimate to further account for the severe and prolonged winter that occurred last year. Harvest metrics from the 2023 season remained around the state average but were slightly down from the long-term average in Area 7. The reduced harvest success rates can likely be attributed to the reduction in population, paired with tough hunting conditions that were experienced in 2023. The post season survey produced a ratio of 23 bucks:100 does:57 fawns. The buck ratio is likely biased low, due to the Jarbidge Wilderness segment of the deer herd not being surveyed because of regional reprioritization. This segment of the herd typically has a higher buck ratio and was not represented in the post season sample. Spring survey results produced an above average sample size and a fawn ratio of 39 fawns:100 does, which is the highest spring fawn ratio in recent years. The harvest from last year was the third lowest reported harvest in the last 20 years. The proposed quotas are targeting a buck ratio of 30 bucks:100 does. Large increases in primitive weapons are due to changes made in tag allocations with the demand success formula being changed to a fixed demand allocation.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 081

Date Prepared: 4/10/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021				0			0	--	--	--	--			900
2021-2022				0			0	--	--	--	--			850
2022-2023				0	371	97	468	--	--	--	26			700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	22%		63%	40%				49%			67%	
2022-2023	40%		69%	50%				86%		0%	80%	
2023-2024	29%		40%	60%				63%		0%	60%	67%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	5	2	15	2	40	2						20	3	
2023-2024	3,3	1,1	8	2	30	1						15	3	4
2024-2025	4,4	1,1	4	1	30	2						14	2	
Tag Trend	INC	INC	DEC	DEC	=	INC	=	=	=	=	=	DEC	DEC	DEC

Quota Rationale

This is an alternative mule deer herd management unit and harvest metrics are used to determine quota recommendations. The three-year average hunter success and percentage of 4 points are both within the management objectives. The recent severe winter in 2022-2023 likely had negative effects on age class structure and caused some level of population retraction. Quotas are to remain at low levels to allow for age class structure to recover in this unit. In the future, more effort will be directed towards communication with tag holders to collect more tooth samples for age analysis. Tooth age data combined with hunt metrics will help better inform tag quotas in the future.

Reporting Biologist: Ellingwood

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 101-109

Date Prepared: 4/5/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0	4,616	1,596	6,212	--	--	--	35	36	48	13,500
2022-2023	1,084	3,309	1,934	6,327	5,015	1,185	6,200	33	58	44	24	36	38	10,800
2023-2024	412	1,056	623	2,091	3,353	990	4,343	39	59	42	30	38	48	10,700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	13%	25%	15%	28%	30%	59%		32%	156	49%	48	78%
2022-2023	10%	20%	26%	25%	27%	43%		26%	111	64%	51	93%
2023-2024	10%	14%	13%	18%	18%	31%		27%	56	50%	33	65%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	690, 30	70, 3	220	16	1,050	75	1,050	65	180	10	50	600	28,35,6	19
2023-2024	460, 45	50, 2	75	8	450	25	450	7	100	4	15	400	41,38,6	20
2024-2025	400, 15	45, 2	200	20	450	42	450	35	111	7	0	230	10,16,4	16
Tag Trend	DEC	DEC	INC	INC	=	INC	=	INC	INC	INC	DEC	DEC	DEC	DEC

Quota Rationale

Conservative quotas last year in response to the extreme winter of 2022-2023, led to the harvest of 407 deer, consisting of 351 antlered and 56 antlerless deer, which was significantly lower than the previous 10-year mean of 1,132 deer. The 2023 buck harvest was the lowest ever, representing only 58% of the previous low annual harvest. The extremely conservative quota in 2023 of 1,580 resident buck tags was the second lowest quota on record since the inception of the quota process in 1976. The buck ratio took a considerable jump during post-season aerial survey which is well above management objective. This can be attributed to the very conservative tag quota in 2023, the low hunter success, and above average fawn recruitment. Modeling adjustments were made following the conclusion of last winter after understanding its full effects to the deer herd. The winter was devastating across all age classes but was not as severe than what was accounted for in 2023. Because of this, the population was modeled up and the published population estimate in 2023 does not reflect those modeling adjustments. Quota recommendations will show an increase in buck tags from last year to work back towards the standard unit post-season management objective of 30 bucks:100 does. It is worth noting that the recommended total buck tags is still significantly lower than historical tag quotas. This recommendation is based on a post-season objective of 38 bucks:100 does and represents a small step down towards objective. The 2024 hunting season will also be the first to eliminate an antlerless hunt in multiple decades in Area 10.

Reporting Biologist: Kirk

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 111-113

Date Prepared: 4/4/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0	1,535	298	1,833	--	--	--	19	33	40	3,100
2022-2023	314	952	471	1,737	1,531	401	1,932	33	49	37	26	34	42	2,600
2023-2024					1,041	392	1,433				38	35	48	2,800

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	41%	NA	46%	43%	NA	63%		23%	39	57%	77%	NA
2022-2023	19%	NA	58%	53%	NA	58%		32%	19	40%	60%	NA
2023-2024	23%	NA	31%	42%	NA	80%		28%	0	88%	55%	NA

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	30	3	10	2	200	13	0	0	20	2	0	90	12,1	0
2023-2024	25	3	16	1	170	10	0	0	10	1	0	55	9,1	0
2024-2025	96	10	35	4	250	20	0	0	25	2	0	110	7,1	0
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	INC	INC	=	INC	DEC	=

Quota Rationale

This population suffered from the 2018-19 winter and the drought of 2020-2022. Quotas decreased during this time to account for population decline. The last post-season survey was conducted in the fall of 2022, resulting in ratios of 33 bucks:100 does:49 fawns. The observed 33 bucks:100 does is above the management objective of 30 bucks:100 does post-season, indicating that quota reductions were slightly more than needed. Due to the uncertainty of the 2022-23 winter and the effects on this population, a more conservative approach was taken on quota recommendations in the 2023, despite the post-season buck ratio indicating a quota increase.

Spring fawn ratios have been in an upward trend. Fawn recruitment, post-season buck ratios, and stable harvest metrics are indicating a quota increase for 2024. Quotas are based off of a post season ratio of 34 bucks:100 does, which is still above management guidelines.

Reporting Biologist: Menghini

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 114-115

Date Prepared: 4/4/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0	465	74	539	--	--	--	16	31	36	1,000
2022-2023				0	283	105	388	--	--	--	37	25	39	1,000
2023-2024				0	233	95	328	--	--	--	41	26	41	1,100

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	11%	NA	47%	48%	NA	80%		59%	21	100%	58%	100%
2022-2023	17%	NA	71%	56%	NA	57%		59%	3	40%	64%	50%
2023-2024	13%	NA	78%	34%	NA	75%		57%	0	50%	48%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	70	7	20	2	60	6	0	0	5	2	0	30	3,1	6
2023-2024	70	7	25	2	65	6	0	0	5	2	0	35	3,1	3
2024-2025	70	7	25	2	65	6	0	0	5	2	0	15, 30	3,1	4
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	INC	=	INC

Quota Rationale

This unit group is managed as an alternative hunt and current management guideline direction is to manage for a post-season buck ratio of 35 bucks:100 does, hunter success rate between 40-55%, and percent 4-point or greater is 50-75% for all harvested bucks. Post-season surveys in this unit group result in low sample sizes and statistically unreliable data, therefore the post-season buck ratio is not considered in quota development. The 3-year average hunter success for the early ALW hunt is 46% and the 3-year average percent 4-point or greater is 58%. Harvest metrics are in the middle of management guidelines; therefore no quota changes are being recommended.

Last year the Junior quota was 35. The Junior hunt is now split in to two seasons: an Any Legal Weapon and Primitive Weapon season. The Any Legal Weapon quota is 30 and the Primitive Weapon quota is 15.

Reporting Biologist: Menghini

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 121

Date Prepared: 4/4/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	77	421	162	660	805	202	1,007	18	38	33	25	24	34	1,700
2022-2023				0	907	270	1,177	--	--	--	30	29	40	1,600
2023-2024	202	741	370	1,313	799	271	1,070	27	50	39	34	33	45	2,000

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	30%	33%	60%	51%		38%		36%	7	57%	90%	50%
2022-2023	33%	0%	75%	59%		71%		38%	0	50%	73%	100%
2023-2024	50%	33%	71%	82%		33%		43%	1	100%	73%	80%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	4,2	2,2	3	2	40	2	0	0	5	2	0	15	3,1	3
2023-2024	9,5	1,1	7	1	40	3	0	0	5	2	0	15	2,1	5
2024-2025	35,10	4,1	20	2	130	10	0	0	15	2	0	70	2,1	6
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	INC	=	=	INC	=	INC

Quota Rationale

The 2020 and 2021 post-season observed buck ratios were 15 and 18 bucks per 100 does, respectively. Model adjustments occurred to reflect the depressed buck ratio and declining population more accurately. Quotas have been depressed since 2021 to improve the buck ratio and age structure. A total of 1,313 deer was classified in the fall of 2023, resulting in observed ratios of 27 bucks:100 does:50 fawns. The observed buck ratio is close to management objectives of 30 bucks:100 does post-season. This is an indication that tag reductions were successful to increase the observed buck ratio to management objectives. The upward trend in fawn recruitment the last two years is resulting in an increasing population. The improved post-season buck ratio and fawn recruitment is allowing for a quota increase in this herd.

Quotas are being based off a post-season buck ratio of 32 bucks:100 does.

Reporting Biologist: Menghini

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 131-134

Date Prepared: 4/5/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	31	157	59	247	373	96	469	20	38	31	26	21	32	2,200
2022-2023	36	173	135	344	394	122	516	21	78	65	31	26	37	1,400
2023-2024	53	207	103	363	406	147	553	26	50	40	36	29	43	1,500

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	27%		30%	29%		31%		27%	32	60%	58%	30%
2022-2023	50%		20%	56%		25%		43%	2	55%	56%	0%
2023-2024	40%		25%	44%		50%		57%	0	71%	50%	40%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Anterless Hunt	Junior Hunt ALW	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	6	2	5	2	45	2	0	0	4	2	0	20	13,2	4
2023-2024	4	1	3	1	25	2	0	0	3	1	0	8	6,2	5
2024-2025	25	3	10	1	65	4	0	0	9	1	0	25,15	3,1	5
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	=	=	INC	INC	INC

Quota Rationale

Due to the recently depressed quota recommendations, the observed post-season buck ratio is showing slow growth back towards management objective and was observed at 26 bucks:100 does during the fall aerial survey. The favorable environmental conditions on the landscape throughout 2023 and the relatively mild winter of 2023-2024 yielded an impressive fawn recruitment of 36 fawns: 100 adults. The harvest metric in 2023 of percent four point or greater is up substantially at 57% and well over the statewide average of 42%. Hunter success was 47% across all seasons, and is within alternative hunt success objective of 40-55%. With the two years of improved fawn recruitment, another anticipated large fawn crop, and high harvest metrics, quota recommendations will show an increase this year. This recommendation is targeting a post-season buck ratio of 37 bucks: 100 does. The significant increase in the primitive weapons quotas is a direct reflection of the new and approved Policy 24 fixed demand tag allocation.

Reporting Biologist: Ricketts

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 141,142,143,144,145

Date Prepared: 4/5/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	212	681	352	1,245	770	173	943	31	52	39	22	32	43	4,400
2022-2023	164	740	447	1,351	1,800	562	2,362	22	60	49	31	27	39	3,600
2023-2024	273	1,000	577	1,850	1,448	596	2,044	27	58	45	41	30	44	3,700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	18%		26%	47%		43%		34%	33	80%	66%	46%
2022-2023	20%		56%	45%		50%		31%	22	44%	70%	89%
2023-2024	18%		13%	38%		40%		30%	1	77%	59%	87%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	220	23	20	2	270	23	0	0	35	3	0	190	10,1	10
2023-2024	140	15	15	1	200	9	0	0	20	1	0	70	12,2	16
2024-2025	170	20	70	8	350	30	0	0	35	4	0	130	8,1	10
Tag Trend	INC	DEC	INC	INC	INC	INC	=	=	INC	INC	=	INC	DEC	DEC

Quota Rationale

Environmental conditions in 2023 were favorable for wildlife throughout most of Area 14. Above average precipitation and landscape conditions were seen throughout the spring and early summer and precipitation events in the fall provided critical green up for deer in preparation for the mild winter of 2023-2024. The 2023 post-season deer survey was exceptional in all arenas like survey conditions, sex and age ratios, and total sample size. A sample was observed in each subunit which typically does not happen during the post-season survey. The survey yielded a fawn production ratio of 59 fawns:100 does and the post-season observed buck ratio was 27 bucks: 100 does. The spring survey was also exceptional in total sample size and fawn recruitment in that 2,044 deer were classified yielding an impressive fawn recruitment of 41 fawns:100 adults. Last year, quota recommendations were conservatively reduced because of modeling adjustments and the severe winter conditions of 2022-2023. With the exceptional recruitment from last year and an anticipated large fawn crop this year, quotas recommendations will show an increase to maintain the population at 30 bucks:100 does. Hunter success and the harvest metric of four point or greater remains around the long term average.

Reporting Biologist: Shanks

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 151-156

Date Prepared: 3/29/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	118	344	211	673	425	181	606	34	61	46	43	36	46	2,500
2022-2023				0	633	199	832	--	--	--	31	38	50	2,500
2023-2024				0	988	423	1,411	--	--	--	43	36	48	2,600

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	33%		75%	39%		73%		38%	3	60%	68%	100%
2022-2023	8%		63%	44%		63%		39%	3	100%	69%	100%
2023-2024	20%		14%	33%		64%		48%	0	87%	54%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	60	7	9	1	200	15			20	1	0	100	8,1	6
2023-2024	110	10	15	1	280	20			30	2	0	90	9,1	6
2024-2025	130	15	50	1	340	25			35	3	0	170	12,1	1
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=	INC	DEC	DEC

Quota Rationale

No fall aerial post-season survey was conducted in Area 15 during 2023. An aerial spring survey was conducted in early March 2024 totaling 1411 deer. Ratios on spring survey compiled an observed fawn to adult ratio of 43 fawns:100 adults. After two favorable fawn crops due to recent precipitation patterns and underestimates of the buck ratio. The buck ratio is well above objective at 37 bucks:100 does. NDOW is recommending an incremental step to get back the statewide objective of 30 bucks:100 does. The 2024 quota NDOW is shooting for a post season buck ratio of 32 bucks:100 does. In 2023, harvest metrics held strong with 48 percent of the harvested bucks were 4 points or better.

Reporting Biologist: Shanks

Supervisor: Roberts

Mule Deer Quota Recommendation Form

Unit Group: 161-164

Date Prepared: 3/26/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	31	223	63	317	160	31	191	14	28	25	19	23	31	2,100
2022-2023				0	381	111	492	--	--	--	29	25	36	1,500
2023-2024	91	288	171	550	463	185	648	32	59	45	40	32	47	1,700

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	12%		35%	23%		27%		28%	26	43%	53%	80%
2022-2023	17%		7%	32%		30%		22%	1	100%	40%	0%
2023-2024	20%		0%	20%		71%		40%	0	67%	39%	0%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	50	6	15	1	110	3			10	2		45	11	2
2023-2024	25	3	7	1	90	5			15	2		30	7	1
2024-2025	56	6	30	3	140	10			15	1		45	6	1
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	=	DEC	=	INC	DEC	=

Quota Rationale

Increased precipitation patterns in 2022 and 2023 have greatly benefitted wildlife in central Nevada. The Area 16 mule deer herd is no exception. After many years of drought conditions and depressed fawn recruitment, the tides have turned. Fawn ratios observed during aerial surveys in the fall 2023 (59 fawns:100 does) and spring 2024 (40 fawns:100 adults) are indicative of a growing population. The buck ratio has also seen a notable increase to 32 bucks per 100 does. The 4-point or greater percentage of harvested bucks significantly increased to 40% from 2022's percentage of 22%. The survey data and harvest metrics are suggestive that the Area 16 mule deer herd is recovering from the drought conditions. Commission Policy 24 was updated by the Nevada Board of Wildlife Commissioners during the January 2024 commission meeting. The updates to this policy provide a fixed allocation for various weapon classes as opposed to a demand formula. The fix allocation will allow for greater proportion of allocated tags shifted towards primitive weapon classes. With these changes, a larger percentage of muzzleloader and archery quotas will be offered. The Department recommends a modest increase in the overall quota.

Reporting Biologist: Burkett

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 171-173

Date Prepared: 3/29/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	86	278	136	500	408	111	519	31	49	37	27	34	44	3,100
2022-2023				0	641	253	894	--	--	--	39	33	46	3,200
2023-2024	154	431	286	871	480	224	704	36	66	49	47	37	52	3,800

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	8%		13%	21%	24%	67%		32%	33	100%	46%	
2022-2023	10%		17%	24%	25%	31%		34%	22	73%	57%	
2023-2024	7%		29%	20%	36%	55%		44%	2	64%	35%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	240	25	65	6	270	25	180	10	30	2		170	13	0
2023-2024	260	25	65	6	270	20	190	15	30	2		120	18	2
2024-2025	300	30	110	10	310	25	240	20	55	2		170	21	1
Tag Trend	INC	INC	INC	INC	INC	INC	INC	INC	INC	=	=	INC	INC	DEC

Quota Rationale

Increased snowpack and summer moisture patterns in 2022 and 2023 have provided some relief compared to the drought conditions experienced in 2018, 2019, and 2020. The Area 17 deer herd also had some reprieve from better forage conditions at higher elevations and weren't as severely impacted by the drought conditions experienced in adjacent unit groups. There was an increase in the 4-point or greater percentage of harvested bucks in Area 17. The previous year's percentage of bucks harvested that were 4 points or greater was 34%. Moreover, during the fall deer aerial survey, there were 36 bucks per 100 does classified, above our objective for standard units. Commission Policy 24 was updated by the Nevada Board of Wildlife Commissioners during the January 2024 commission meeting. The updates to this policy provide a fixed allocation for various weapon classes as opposed to a demand formula. The fixed allocation will allow for a greater proportion of allocated tags to be shifted towards primitive weapon classes. With these changes, a larger percentage of muzzleloader and archery quotas will be offered. The Department recommends an increase in quota in all weapon classes.

Reporting Biologist: Burkett

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 211-213

Date Prepared: 3/29/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			
2022-2023				0			0	--	--	--	--			
2023-2024				0			0	--	--	--	--			

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	42%		57%	43%				35%	4	50%	95%	
2022-2023	0%		0%	22%				13%	0	0%	18%	
2023-2024	0%		0%	29%				45%	0	0%	63%	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	10	2	6	2	20	5						15	3	
2023-2024	3	1	3	1	15	2						10	2	
2024-2025	5	1	5	1	15	2						10	2	
Tag Trend	INC	=	INC	=	=	=	=	=	=	=	=	=	=	=

Quota Rationale

Aerial surveys are not conducted for the Area 21 mule deer population. Sample sizes are inconstant and do not derive enough statistical power for current modeling practices. Instead, harvest metrics (i.e., hunter success, average days hunted, and the 4-point or greater percentage of harvested bucks) provide suggestions to the Department in quota recommendations. In Area 21, harvest success remains low, but we've seen an increase in the percentage 4-point or greater bucks harvested. The Department recommends a minimal increase in the primitive weapon classes, but no change in the any-legal-weapon quotas.

Reporting Biologist: Burkett

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 231

Date Prepared: 4/3/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	137	674	185	996	935	209	1,144	20	27	23	22	27	38	2,500
2022-2023	151	583	274	1,008	696	220	916	26	47	37	32	30	35	2,100
2023-2024	124	502	288	914	784	325	1,109	25	57	46	41	32	38	2,400

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	18%		47%	63%				50%	8	43%	85%	54%
2022-2023	25%		25%	71%				49%	2	50%	81%	46%
2023-2024	7%		40%	61%				58%	0	67%	64%	59%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	8	2	4	2	45	2						20	6	42
2023-2024	15	1	5	1	45	4						40	3	29
2024-2025	32	3	15	2	62	5						30	1	34
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	=	=	=	DEC	DEC	INC

Quota Rationale

This mule deer population has undergone a decline in recent years. However, with recent precipitation patterns, fawn ratios and forage quality have greatly improved. With reduced buck harvest and the recent precipitation patterns the buck ratio has returned to a level within management levels. Hunter success and quality of harvest has remained stable. Drought conditions that occurred from 2020-2022 resulted in very few fawns recruited in the population. The poor recruitment levels are being realized in this population with the lack of representation of three- to four-year-old animals. It is important to note that the compensation tag quota has remained low compared to previous years. Survey, modeling, and harvest metrics warrant an increase in quotas.

Reporting Biologist: Shanks

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 221-223

Date Prepared: 3/30/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	87	385	107	579	795	165	960	23	28	23	21	31	40	3,000
2022-2023	81	372	175	628	861	255	1,116	22	47	39	30	25	31	2,200
2023-2024	87	294	171	552	783	304	1,087	30	58	45	39	32	38	2,300

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	14%		54%	31%	22%	65%		39%	12	67%	38%	88%
2022-2023	19%		25%	25%	28%	43%		57%	9	50%	50%	0%
2023-2024	25%		0%	31%	40%	50%		44%	1	67%	60%	66%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Junior Hunt Primitive	Junior ALW Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	20	2	5	2	90	2	55	2	7	2		60	16	3
2023-2024	15	1	4	1	80	3	45	2	6	2		35	9	4
2024-2025	50	5	20	2	150	10	0	0	8	3	20	25	6	1
Tag Trend	INC	INC	INC	INC	INC	INC	DEC	DEC	INC	INC	INC	DEC	DEC	DEC

Quota Rationale

This mule deer population has undergone a significant decline in recent years due to drought. Success of any-legal-weapon hunters has remained low in recent years. However, with reduced buck harvest and the recent precipitation patterns, the buck ratio has returned to appropriate management levels. Drought conditions that occurred from 2020-2022 resulted in very few fawns recruited in the population. The poor recruitment levels are being realized in this population with the lack of representation of three- to four-year-old animals. Due to population trends, hunter success, and quality of harvest, the Department recommends a modest increase in the quota.

Reporting Biologist: Shanks

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 241-245

Date Prepared: 4/3/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022	53	177	83	313	325	74	399	30	47	36	23	43	52	1,300
2022-2023				0			0	--	--	--	--	37	50	1,200
2023-2024	27	146	81	254			0	18	55	47	--	36	48	1,000

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	50%		75%	61%				75%	0	75%	74%	56%
2022-2023	36%		29%	47%				61%	3	0	64%	40%
2023-2024	25%		67%	48%				86%	1	50	55%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Junior Primitive Hunt	Junior ALW Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2022-2023	4	2	3	2	45	2						20	5	12
2023-2024	5	1	3	1	45	2						15	3	10
2024-2025	15	2	6	1	45	3					10	15	2	11
Tag Trend	INC	INC	INC	=	=	INC	=	=	=	=	INC	=	DEC	INC

Quota Rationale

This mule deer population has undergone a decline in recent years. However, with recent precipitation patterns, fawn ratios, and forage quality have greatly improved. Tag quotas were substantially cut the last two years in response to population trends and harvest metrics. The reduced quotas saw the harvest success stabilize and the quality metrics 4-pt or better increase within the metrics for an alternative unit. Harvest metrics and modeled buck ratio warrant a similar quota to last year. However, due to policy 24 the Department recommends an increase in the primitive weapon hunts.

Reporting Biologist: Shanks

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 251-254

Date Prepared: 3/29/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			
2022-2023				0			0	--	--	--	--			
2023-2024				0			0	--	--	--	--			

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	14%		0%	4%				29%	1	0%	46%	
2022-2023	0%		0%	29%				67%	1	0%	50%	
2023-2024	25%		0%	14%				67%		0%	33%	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	8	2	5	2	30	5						20		
2023-2024	5	2	2	2	10	2						5		
2024-2025	5	1	5	1	10	1						5	2	
Tag Trend	=	DEC	INC	DEC	=	DEC	=	=	=	=	=	=	INC	=

Quota Rationale

Aerial surveys are not conducted for the Area 25 mule deer population. Sample sizes are inconstant and do not derive enough statistical power for current modeling practices. Instead, harvest metrics (i.e., hunter success, average days hunted, and the 4-point or greater percentage of harvested bucks) provide suggestions to the Department in quota recommendations. The Department recommends an increase in muzzleloader quota, but similar quotas in the other weapon classes.

Reporting Biologist: Burkett

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 261-268

Date Prepared: 3/22/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				-			-	--	--	--	--			
2022-2023				-			-	--	--	--	--			
2023-2024				-			-	--	--	--	--			

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	38%		50%	47%				28%		100%	45%	
2022-2023	22%		0%	33%				40%		0%	44%	
2023-2024	29%		50%	30%				47%		100%	28%	

Approved (Previous Year) and Recommended (Current Year) Tag Quota

Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	10	2	10	2	60	3						30	3	
2023-2024	8	2	8	2	40	3						20	3	
2024-2025	15	2	15	2	30	3						20	3	
Tag Trend	INC	=	INC	=	DEC	=	=	=	=	=	=	=	=	=

Quota Rationale

Aerial surveys for mule deer are not conducted in Area 26 due to low density and detection. Standard survey methods do not yield sufficient sample sized to estimate populations; quotas are set using hunter success, buck quality (4-point or greater), and observation reports. Harvest success rates across most weapon and age classes have declined since 2020, but buck quality has increased, and hunter satisfaction is average. Range conditions in much of the unit group have improved due to mild temperatures and increased precipitation since late 2022, and deer may be more widely distributed on the landscape, especially in lower elevations. Residual precipitation from Hurricane Hilary in late August resulted in heavy rains that closed roads and limited hunter access to key mule deer areas for much of the season. The Department recommends a similar quota to last year with a shift from the ALW to primitive weapon seasons.

Reporting Biologist: Wood

Supervisor: Bennett

Mule Deer Quota Recommendation Form

Unit Group: 271-272

Date Prepared: 3/30/2024

Herd Results

Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2021-2022				0			0	--	--	--	--			
2022-2023				0			0	--	--	--	--			
2023-2024				0			0	--	--	--	--			

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)	Any-Legal-Weapon Success (%)			Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
	E	L		E	M	L						
2021-2022	25%		10%	43%				45%	0	100%	56%	100%
2022-2023	13%		33%	25%				73%	0	0%	44%	100%
2023-2024	0%		0%	36%				67%	0	0%	57%	100%

Approved (Previous Year) and Recommended (Current Year) Tag Quota

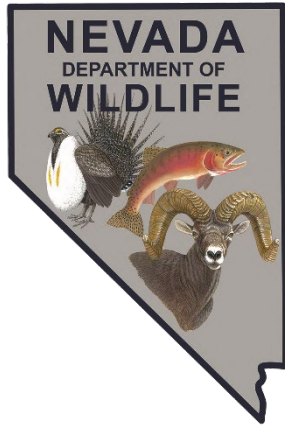
Year	Archery Hunt		Muzzleloader Hunt		Early ALW Hunt		Mid ALW Hunt		Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR				
2022-2023	10	2	10	2	25	2						10	1	1
2023-2024	8	1	8	1	15	2						8	1	1
2024-2025	8	1	8	1	15	2						8	1	0
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	DEC

Quota Rationale

This mule deer population is managed as a non-standard unit group due to limited deer numbers and low density. The management objective is a 45% success rate. Harvest success was below objective in 2023. Quality of harvest, measured by percentage of harvested bucks with 4 or more points, was higher than average despite the low hunter success. This population appears to be slightly increasing due to favorable conditions. The Department recommends a stable quota.

Reporting Biologist: Shanks

Supervisor: Bennett



2024-2025 Moose Quota Recommendation Forms
(Accompanies Commission Regulation 24-12)

Moose Quota Recommendation Form

Unit Group: 061, 062, 064, 066-068, 071-077, 081, & 101-103

Date Prepared: 4/10/2024

Herd & Harvest Results

Year	Survey Count			Total	Bull Ratio (Obs)	Calf Ratio (Obs)	Pop Est (August)	Antlered Success (%)	B&C Score	Age	Days Hunted
	Bull	Cow	Calf								
2021-2022	12	16	8	36	75	50	75				
2022-2023	23	21	11	55	110	52	90				
2023-2024	12	12	5	29	100	42	105				

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

Year	Antlered ALW	
	10151	10251
2024-2025	2	--
		--
		--
Tag Trend	INC	=

Quota Rationale

The Department recommends 2 tags for the inaugural moose hunt, representing harvest of up-to 4% of available bull moose. For comparison, desired harvest for elk comprises about 10-15% of available bull elk. Ratios displayed from 2022-2023 are likely more reflective of true bull and calf ratios since more focused survey efforts were conducted during that time frame. Since 2020, survival for adult moose ranged from 94-100%, and recruitment rates for monitored cows averaged 73 calves per 100 cows, annually. Both metrics suggest exceptional potential for population growth, which is corroborated by a nearly 300% increase in reported observations in 2023. The population estimate is primarily driven by observed calf ratios, which are likely biased low because cow and calves are often bedded in or near heavy cover, reducing their likelihood for detection. While the harvest of 2 bulls will reduce mating pressure in localized areas, the Department is proceeding cautiously with a proposal for light harvest as we gain and evaluate valuable information about moose demographics (e.g., age structure, body condition, and disease) that are difficult to obtain otherwise.

Reporting Biologist: _____

Supervisor: _____

