

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

Flk	Quota	Reco	mmenda	tion Form

Unit Group):			0:	51					Date	Pre	oare	d:		4	4/17/	202	3	
Population	Obje	ctive:			200														
Herd & Ha	rvest	Resu	lts																
Year	Sui	rvey Co	ount	Total		Ratio bs)		Ratio bs)		Est gust)		ull Ri		Ве)-in am %)	6 Pt (%)	An	Tota tlerle	ess
	Bull	Cow	Calf			•	_				Е	М	L	,					
2020-2021	4	21	16	41		9		6		90	67		0		50	100		2	
2021-2022	2	28	10	40		7	_	36		00	50				25	100		1	
2022-2023	7	20	9	36	3	5	4	5	1:	20	33			5	50	100		1	
Approved	(Prev	ious '	Year) :	and R	ecom	mend	led (C	urreni	t Year) Tag	Que	ota -	Δni	tlere	he				
Approved										·	Qui	Bull	AII				Lar	ndow	/ner
Year		ull hery		ull eloader		ull Early		ull / Mid		ull ′ Late		oreda int 41			Spik unt 40		In	cent Tags	ive
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	Α	М	ALW
2021-2022			2		6				0										
2022-2023			1		6				0										
2023-2024			1		1				0										
Tag Trend	=	=	DEC	=	DEC	=	=	=	=	=	=	=	=	=	=	=	=	=	=
Approved	(Prev	ious `	Year) a	and R	ecom	mend	led (C	urren	t Year) Tag	Quo	ota -	Ant	tleri	ess				
Year		erless hery		erless eloader		erless Early		erless / Mid		erless Late	De	ntlerle preda unt 41	tion	M	ntlerle gmt H (DELI	lunt	Wi	ntlerle Idern ınt 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022					0				6										
2022-2023					0				4										
2023-2024					0				0										
Tag Trend	=	=	=	=	=	=	=	=	DEC	=	=	=	=	=	=	=	=	=	=
Quota Rat																			
Currently, w seeing an ir occurred, co in the future objective is the 2021-20 upcoming h	nflux of ontinue e. This _l to mair 022 Big	anima d reha popula ntain th Game	ls mov bilitatio tion is nis hero Huntir	ing in f on effor expect I below ng Sea	rom ac ts have ed to s v 200 a son, w	ljacent e conti ee fluc nimals arranti	areas nued ir stuation . Hunt ng a re	like we this a is in nu er suce duction	e have rea wh imbers cess ai n in bu	observich is endedededededededededededededededededed	/ed ii expe nding sfact	n the cted on a ion b	pas to he annu nas c	t. Sii elp tl al w Iropp	nce f his p inter oed i	the Mopulation of the concept of the	artin ation lition vely	Fire grea s. T sinc	e atly he e

		O	Ciida		01111														
Unit Group):			061,	071			_		Date	Prep	oare	d:		4	1/17/	202	3	
Population Herd & Ha	•			Hab	itat Ba														
Year	Sui	vey Co	unt	Total		Ratio bs)	_	Ratio bs)		Est gust)	Suc	ıll Ri cess	(%)	50- Bea (%	am	6 Pt (%)	An	Tota tlerle arve	ess
2020-2021	Bull 397	Cow 1,329	Calf 517	2,243	2	80	2	39	5 000	(1,700)	E 62	М	59	17	7	64		190	
2020-2021	533	1,230	566	2,329		3	_	.6		(1,400)	69		61	16		66		136	
2022-2023	479	1,219	443	2,141		9		86		(1,400)	70		29	28		62		94	
												, to			-	<u> </u>			
Approved	(Prev	ious	rear)	and R	ecom	mena	ea (C	urren	rear) rag	Quo		An	liere	a		1		
Year	Bı Arcl	ull nery		ull eloader		ull Early		ull / Mid		ull Late		Bull oreda nt 41			Spike nt 46		In	ndow centi Tags	ive
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Ε	М	L	Е	М	L	Α	М	ALW
2021-2022	30	3	16	2	30	4			40	4				8		8			8
2022-2023	25	3	8	1	18	2			25	3				4		4			7
2023-2024	13	1	6	1	15	2			25	3				5	0	5			6
Tag Trend	DEC	DEC	DEC	=	DEC	=	=	=	=	=	=	=	=	INC	=	INC	=	=	DEC
Approved	(Prev	ious \	rear)	and R	ecom	mend	ed (C	urrent	t Year) Tag	Quo	ota -	An	tlerle	ess				
Approved Year	Antle		Antle	and R erless eloader	Antle	mend erless Early	Antle	urrent erless / Mid	Antle) Tag erless Late	An Dep	ota - itlerle oreda int 41	ess ition	An Mgi	ess tlerle mt F DELI	lunt	Wil	tlerle dern nt 4	ess
• •	Antle	rless	Antle	erless	Antle	erless	Antle	erless	Antle	erless	An Dep	tlerle reda	ess ition	An Mgi	tlerle mt H	lunt	Wil	dern	ess
• •	Antle Arcl	rless nery	Antle Muzzle	erless eloader	Antle ALW	erless Early	Antle ALW	erless / Mid	Antle ALW	erless Late	An Dep Hu	itlerle preda int 41	ess ition 107	An Mgi ([tlerle mt H DELI	lunt <)	Wil Hu	dern nt 4	ess 181
Year	Antle Arcl	erless nery 4211	Antle Muzzle	erless eloader	Antle ALW 4181	erless Early 4281	Antle ALW	erless / Mid	Antle ALW 4151	erless Late 4251	An Dep Hu	itlerle preda int 41	ess ition 107	An Mgi ([tlerle mt F DELI M	lunt <) ALW	Wil Hu	dern nt 4	ess 181
Year 2021-2022	Antle Arcl	erless nery 4211 6	Antle Muzzle	erless eloader	Antle ALW 4181 235	erless Early 4281 35	Antle ALW	erless / Mid	Antle ALW 4151 195	erless Late 4251 30	An Dep Hu	itlerle preda int 41	ess ition 107	An Mgi (E A	tlerle mt H DELI M 0	lunt <) ALW	Wil Hu	dern nt 4	ess 181
Year 2021-2022 2022-2023	Antle Arcl 4111 60 45	erless nery 4211 6 7	Antle Muzzle	erless eloader	Antle ALW 4181 235 125	erless Early 4281 35 18	Antle ALW	erless / Mid	Antle ALW 4151 195 110	erless Late 4251 30 16	An Dep Hu	itlerle preda int 41	ess ition 107	An Mgi (E A 0	tlerle mt H DELI M 0	ALW 0	Wil Hu	dern nt 4	ess 181
Year 2021-2022 2022-2023 2023-2024	Antle Arcl 4111 60 45 35 DEC	4211 6 7 5 DEC	Antle Muzzle 4176	erless eloader 4276	Antle ALW 4181 235 125 130	4281 35 18	Antle ALW 4151	erless / Mid 4251	Antle ALW 4151 195 110 130	erless Late 4251 30 16 15	An Dep Hu	nt 41	ess ition 107	An Mgi	tlerle mt H DELI M 0 0	ALW 0 0 0	Wil Hu E	dern nt 4	less 181 L
Year 2021-2022 2022-2023 2023-2024 Tag Trend	Antle Arcl 4111 60 45 35 DEC ionale 1 elk p tht incre tations ntlered or bette harves	4211 6 7 5 DEC	Antle Muzzle 4176 4176 = ion est om 20. signed reduct harves	imate is 22. This to slow ions in st metri	Antle ALW 4181 235 125 130 INC s nearly popular to the popular t	4281 35 18 15 DEC y identify dilation (were stains be	Antle ALW 4151 = tical to ue to for growth uccess low the	erless / Mid 4251 = the 20 our yea as well ful in ra	Antle ALW 4151 195 110 130 INC	arless Late 4251 30 16 15 DEC mate. A elatively ntinuing the peront object	An Dep Hu E ==	rless provv age of a	ess stion 07 L = s har	An Mgr ([A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mt H DELI M 0 0 0 = reccettme intented	ALW O O O = Omme nt. C oppo bulls /erag	Will Hu E = enda urrer ortur with e of	dernnt 4' M = tion: nt qu nity. 50-i	ess 181 L

Unit Group:	062, 064, 066-068	Date Prepared:	4/17/2023
D	#h 500	_	
Population Object	tive:500	<u>.</u>	

Herd & Harvest Results

Year	Sur	vey Co	unt	Total	Bull Ratio (Obs)	Calf Ratio (Obs)	Pop Est (August)	Bı Suc	ull Ri		50-in Beam (%)	6 Pt (%)	Antiorioce
	Bull	Cow	Calf					Е	М	L	()		
2020-2021	78	298	116	492	26	39	700 (400)	52		33	32	72	22
2021-2022	161	443	160	764	36	36	700 (450)	27		33	27	83	30
2022-2023	138	393	159	690	35	40	800 (500)	50		25	23	69	35

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

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Year	Bı Arcl	ull nery	Bi Muzzle	ull eloader		ull Early	Bı ALW		Bı ALW	ull Late		Bull reda nt 41			Spike Int 46		Ind	ndow centi Tags	ve
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	Α	М	ALW
2021-2022	2	1	4	1	14	2			13	1				3	0	3			
2022-2023	1	1	2	1	13	1			12	1				2		2			
2023-2024	6	1	3	1	30	3			0	0				18		0			
Tag Trend	INC	=	INC	=	INC	INC	=	=	DEC	DEC	=	=	Ш	INC	Ш	DEC	=	Ш	=

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

Year	Antle Arch		Antle Muzzle			erless Early	Antle ALW	erless / Mid		rless Late	Dep	tlerle reda nt 41	tion	Mg	ntlerle jmt H DELI	lunt	Wil	tlerle derne nt 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	10	1			65	9			0	0				0	0	0			
2022-2023	10	1			75	8			0	0				0	0	0			
2023-2024	16	2			75	8			70	8				0	0	0			
Tag Trend	INC	INC	=	=	=	=	=	=	INC	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

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

Reporting Biologist:	Allen	Supervisor:	Donham	

EIK QUOT	a Kec	omm	enda	tion F	orm														
Unit Group):			072,07	73,074	ļ.				Date	Prep	oare	d:		4	4/17/	202	3	
Population Herd & Ha	•				1,420														
Year		rvey Co		Total	Bull I	Ratio bs)		Ratio bs)	•	Est gust)		ıll Ri cess		Ве	-in am %)	6 Pt (%)	An	Tota tlerle arve	ess
2020-2021	140	217	140	497	6	5	6	55	1,1	00	30		18	2	:1	61		73	
2021-2022	88	121	62	271	7	3	5	51	1,2	200	37		33	2	1	68		49	
2022-2023	174	227	167	568	7	7	7	'4	1,3	300	33		35	2	4	75		34	
Approved	(Prev	ious \	Year) :	and R	ecom	mend	ed (C	urrent	Year) Tag	Qua	ota -	Ant	tlere	ed.				
Year	B Arcl	ull hery	B Muzzle	ull eloader	Bı ALW	ull Early	B ALW	ull / Mid	Bı ALW	ull Late	Dep Hu	Bull reda nt 41	tion		Spike Int 46		In	ndow centi Tags	ive s
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	E	M	L	Α	М	ALW
2021-2022	60	8	30	4	100	10			100	10				20		20			15
2022-2023	35	4	10	1	55	6			55	6				12		12			13
2023-2024	14	2	7	1	50	5	_	_	50	5	_	_	_	10	_	10	_	_	9
Tag Trend	DEC	DEC	DEC	=	DEC	DEC	=	=	DEC	DEC	=	=	=	DEC	=	DEC	=	=	DEC
Approved	(Prev	ious \	Year) :	and R	ecom	mend	ed (C	urrent	Year) Tag	Qua	ota -	Ant	tlerl	ess				
Year	Antle	erless	Antle	erless eloader	Antle ALW	rless	Antle	erless / Mid		rless	An Dep	tlerle reda nt 41	ess ition	Ar Mg	ntlerle ımt H DELI	lunt	Wil	tlerle dern nt 4	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	E	М	L
2021-2022	10	1	7	1	65	7			50	5				0	0	0	5		
2022-2023	8	2	9	2	50	5			40	4							3		
2023-2024	16	2	8	1	90	10			80	9							DE0		
Tag Trend Quota Rat	ional	=	DEC	DEC	INC	INC	=	=	INC	INC	=	=	=	=	=	=	DEC	=	=
Survey effor 073. This m level. The 3 managemen move toward (which inclu- ratios, antle	t was in ay be Bayear and object described the street of t	ncreas at leas averag ctive of ctive by e popul	t partia e antle f 25-35 / increa lation c	ally con red elk %. As asing the objective	tribute harve a resu ne aver e of 10	d to the st metr ilt, reco age ag 00 adul	e elk poric of 50 ommer ge of book It elk in	opulation or inch inded buills har Unit 0	on bein main b ull tag o vested 75) is b	ng belo eam on quotas l. The pelow p	w har bette have popu	bitat ter le bee ulatio	cari ength en de on es n obj	rying n rem ecrea stima jectiv	cap nains ased ite fo e. \	acity belo in ar or this With t	at is w th effo unit	curi e ort to gro	rent o oup
Reporting	Biolo	gist:		F	luebne	er		. 8	Superv	/isor:				Do	onha	am			

EIK QUOT	a Rec	omm	enaa	tion F	orm														
Unit Group):			07	75					Date	Prep	oare	d:		4	4/17/	202	3	
Population	•				100														
Herd & Ha	rvest	Kesu	Its	1			1				ı			I		1			
Year	Sui	rvey Co	ount	Total		Ratio bs)		Ratio bs)		Est gust)		ull Ri cess		Ве	in am %)	6 Pt (%)	An	Tota tlerle larve	ess
2020-2021	43	59	28	130	7	'3	4	7	1,1	100	60	IVI	29	2	24	86		6	
2021-2022				0	-	-	-	-		200	75		29	2	29	75		7	
2022-2023	28	59	32	119	4	7	5	54	1,3	300	67		0	3	31	67		4	
	/ 5										_	_							
Approved	(Prev	ious `	Year) a	and R	ecom	mend	ed (C	urrent	Year) Tag	Quo		Ant	tlere	ed				
Year		ull hery	_	ull eloader		ull Early	_	ull / Mid		ull Late		Bull oreda nt 41			Spike Int 46		In	ndow cent Tags	ive
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	E	М	L	Α	М	ALW
2021-2022	3		2		9	1			9	1									9
2022-2023	3		1		6	1			5	1									9
2023-2024 Tag Trend	3 =	=	1 =	=	8 INC	1 =	=	=	6 INC	1 =	=	=	=	=	=	=	=	=	7 DEC
rag rrend	_	_	_	_	INC	_	_	_	INC	_	_	_	_	_	_	_	_	_	DEC
Approved	(Prev	ious `	Year)	and R	ecom	mend	ed (C	urrent	t Year) Tag	Quo	ota -	Ant	tlerl	ess				
Year		erless hery		erless eloader		erless Early		erless / Mid		erless Late	Dep	itlerle reda nt 41	tion	Mg	ntlerle jmt H DELI	lunt	Wil	itlerle Idern Int 4	ness
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	2		4		4				50	5				0	0	0			
2022-2023	2		2		6				40	4				0	0	0			
2023-2024	2		2		14				80	9				0	0	0			
Tag Trend	=	=	=	=	INC	=	=	=	INC	INC	=	=	=	=	=	=	=	=	=
Quota Rat			xtensiv	elv this	s vear	Snow	loads	had elk	conce	entrate	d T	he 3	-vea	r ave	erage	e bull	han	/est	
metric of 50 within the in resident her is necessary estimate rep	+ inch dividua d withi y to mo	main bal Unit on the 1 n the 1 odel Ur	eam le 075 po 00 adu nit 075	ength is pulatio ılt elk o along v	withir n objectiv objectiv	objective of etive of e, due it grou	tive. A f 100 a to reg p 072-0	ntlerle: dult elk ular mo 074 for	ss quot c. Altho ovemer popula	tas are ough U nt of el ation es	des Init 0 k into stima	igne 75 is and ating	d to l mai d out purp	keep nage of U oose	thised to Jnit (s. T	hero mair 075 s he po	l stal ntain easc	ble a the mall	and y, it
Reporting	Biolo	gist:		F	luebne	er		. 8	Superv	visor:		_		D	onh	am		_	_

Elk Quota	a Rec	omm	enda	tion I	-orm														
Unit Group):		07	6,077	,079,0	81		-		Date	Prep	oare	d:		4	1/17/	202	3	
Population	Obje	ctive:			1,195	<u> </u>		<u>-</u>											
Herd & Ha	rvest	Resu	lts																
Year	Su	rvey Co	ount	Total		Ratio bs)		Ratio bs)		Est gust)		ıll Ri cess		Ве	-in am 6)	6 Pt (%)	Ar	Tota itlerl	ess
0000 0004	Bull	Cow	Calf	0					4.	100	E	М	L	,		00		72	
2020-2021	298	649	317	0 1,264		- - 6		- - I9		100 200	80 67		58 57		6 4	80 72		80	
2021-2022	290	049	317	0	4					300	77		71		0	68		118	ł
2022-2020				U					1,0		11		7 1			00		110	
Approved	(Prev	ious `	Year)	and R	ecom	mend	ed (C	urrent	t Year) Tag	Quo	ota -	Ant	tlere	d				
Year		ull hery	_	ull eloader		ull Early		ull / Mid		ull Late		Bull oreda nt 41			Spike Int 46		In	ndov cent Tag:	
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	E	М	L	Α	М	ALW
2021-2022	25	3	15	2	65	8			65	8				10		10			36
2022-2023	12	1	12	1	60	7			60	7				10		10			39
2023-2024 Tag Trend	12	1 =	11 DEC	1 =	60	7 =	=	=	60	7 =	=	=	=	10	=	10	=	=	35 DEC
rag rrenu	_	_	DEC	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	DEC
Approved	(Prev	ious `	Year)	and R	ecom	mend	ed (C	urrent	t Year) Tag	Quo	ota -	Ant	leri	ess				
Year		erless hery		erless eloader		erless Early		erless / Mid		erless Late	Dep	ntlerle oreda unt 41	tion	Μg	ntlerle gmt H DEL	unt	Wi	ntlerle Idern unt 4	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	E	М	L
2021-2022	10	1	15	1	45				30		10	16	30	0	0	0			
2022-2023	8	2	11	2	70				40		12	18	35	0	0	0			
2023-2024	13	1	14	1	85	9			65	7	19	19	37						
Tag Trend	INC	DEC	INC	DEC	INC	INC	=	=	INC	INC	INC	INC	INC	=	=	=	=	=	=
Quota Rat This herd was Based on pa	as surv	veyed i		•			•												
Idaho, so th inch main be recommend population c	at port eam pe lations	ion of tercentate for the	he san age har 2024-	nple is vest m 23 sea	remov etric is son wi	ed fron within Il rema	n the p the ob in simi	opulati jective lar to la	on esti of 25- ast yea	matior 35%. r. Bed	pro As	cess a res	. Th sult, l	e 3-	year quota	avera	age	50+	
Reporting	Biolo	gist:		ŀ	luebne	er_		5	Super	visor:				D	onha	am_			

Unit Group:	078, 105-107, and 109	Date Prepared:	4/17/2023
Population Objective:	340 +/- 10%		

Herd & Harvest Results

Year	Sui	vey Co	ount	Total	Bull Ratio (Obs)	Calf Ratio (Obs)	Pop Est (August)		ull Rit cess		50-in Beam (%)	6 Pt (%)	Total Antlerless Harvest
	Bull	Cow	Calf					Е	М	L	()		
2020-2021	122	251	105	478	49	42	600	75		92	55	79	30
2021-2022	91	317	124	532	29	39	750	69		64	39	88	52
2022-2023	40	188	91	319	21	48	750	83		56	42	81	51

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

Approvou	1			411G 11	000111	o a	54 (5	a	· · · ·	<u>,</u>	440		,		, u				
Year	Bı Arcl	ull nery		ull eloader		ull Early	Bı ALW	ull / Mid	Bı ALW	ull Late	Dep	Bull reda nt 41			Spike Int 46		In	ndow centi Tags	ve
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Ε	М	L	Α	М	ALW
2021-2022	10	1	12	1	16	3			16	2				15					
2022-2023	10	1	13	1	19	3			19	2				19					
2023-2024	10	2	13	1	20	2			20	2				8, 1		8			
Tag Trend	=	INC	=	=	INC	DEC	=	=	INC	=	=	=	Ш	INC	=	INC	=	Ш	=

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

Year	Antle Arch			erless eloader	Antle ALW		Antle ALW	rless / Mid	Antle ALW		Dep	ntlerle oredat int 41	tion	Μg	ntlerle gmt H DELP	unt	Wi	ntlerle Iderne Int 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	20	2	15	2	70				40										
2022-2023	20	3	15	3	80				55										
2023-2024	20	2	25	2	70, 8	8, 1			45	5									
Tag Trend	=	DEC	INC	DEC	INC	INC	=	=	DEC	INC	=	=	=	=	=	=	=	11	=

Quota Rationale

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

Reporting Biologist:	Roberts	Supervisor:	Donham	
			=	

Flk Quota	Recommendation	Form
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Elk Quota	a Rec	omm	enda	tion F	orm														
Unit Group):			09	91			_		Date	Prep	oare	d:		4	4/17/	202	3	
•	•			NV sic	le)														
Herd & Ha	rvest	Resu	ITS								1			1		1			
Year				Total							Suc	cess		Ве)-in eam %)	6 Pt (%)	Ar	Tota tlerl arve	ess
2020-2021	Bull	Cow	Î	00	1	0	6	2	4	50	E	М	L	·	14	100		14	
2020-2021															22	63		19	
2021-2022	30	00	20												13	80		7	
2022 2020				U							100					1 00		<u> </u>	
Approved	(Prev	ious `	Year)	and R	ecom	mend	ed (C	urrent	t Year) Tag	Quo	ota -	Ant	tlere	ed				
Year			Pop Est												Spike unt 46		In	ndov cent Tags	
	4161	4261	4156	NV side Date Prep One									L	Е	М	L	Α	М	ALW
2021-2022				Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E E E															2
2022-2023				Date Prepared Date Prepared Date Dat															2
Tag Trend		=	Sunt Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) Esu										=	=	=	=	=	=	=
rag rrend	_	_	_	Total Bull Ratio (Obs) Calf Ratio (Obs) Foundaries Calf Ratio (Obs) Foundaries Calf Ratio (Obs) Foundaries Calf Ratio (Obs) Foundaries Foun							_	_	_	_	_	_		_	
Approved	(Prev	ious `	Year)	Total Bull Ratio (Obs) Calf Ratio (August) E								ota -	Ant	tlerl	ess				
Year		Previous Year) and Recommended (Current Year) Tag Quota Bull												M	ntlerle gmt H (DEL	lunt	Wi	ntlerle Idern ınt 4	ess
	4111	4211	4176	Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E									L	Α	М	ALW	E	М	L
2021-2022			Succession Suc																
2022-2023				Total Bull Ratio (Obs) Calf Ratio (Obs) Record (August) E															
2023-2024				Total Bull Ratio (Obs) Calf Ratio (Cobs) Calf Ratio (Cobs) E E E E E E E E E															
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=
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Reporting	Biolo	gist:		F	luebne				D	onh	am								

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Unit Group):		10	4, 108	and 1	121		_		Date	Prep	oare	d:		2	1/17/	202	3	
Population	•			U	p to 9 ⁻	12													
Herd & Ha	rvest	Resu	Its	I	Ι		1		ı		1			1		1			
Year				Total			_				Suc	cess		Ве	-in am ⁄6)	6 Pt (%)	An	Tota tlerle larve	ess
2020-2021			Î	461	3	4	Δ	13	9(<u> </u>		IVI	L	Δ	-6	76		96	
2021-2022															2	64		69	
2021-2022					_								67	_	.7	74		38	
		_										4-				74			
Approvea	(Prev	ious `	rear) a	and R	ecom	mena	ea (C	urren	Year) rag	Quo		An	tiere	ea				
Year		Cow Calf Cow Cow											Spike Int 46		In	ndow cent Tags	ive		
	4161			Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E									L	Е	М	L	Α	М	ALW
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2022-2023				Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E M Success									10						
2023-2024			Total Color										5						
Tag Trend	=	Survey Count										=	DEC	=	=	=	=	=	=
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Elk Quota	a Rec	omm	enda	tion F	orm														
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Year				Total			_				Suc	cess		Ве	in am (6)	6 Pt (%)	An	Tota itlerl larve	ess
2020-2021	Bull 34	Cow		400	1	2		00	2,	20	E		L	2	0	60		17	
															18 13	60 70		5	
2021-2022	39 42														3 34	64		5	
2022-2023	42	100	39	109	3	9	·	,0	3	10		30) +	04			
Approved	(Prev	ious `	Year)	and R	ecom	mend	led (C	urrent	t Year) Tag	Quo	ota -	Ant	tlere	ed				
1.1.	Ì		1				<u> </u>			<i>.</i>		Bull					Lar	ndov	vner
Year	Arcl	ull hery	Muzzle	eloader	ALW	Early	ALW	/ Mid	ALW	Late	Hu	reda nt 41		Ηι	Spike Int 46		In	cent Tag	ive s
0004 0000	4161	4261		4256	4151	4251	1		4151	4251	Е	М	L	Е	М	L	Α	М	ALW
2021-2022	7																-		
2022-2023	5				0.5		60	/	0.5								-		
2023-2024	7			Total															
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Approved				Total Bull Ratio (Obs) Calif Ratio (Obs) Pop Est (August) E											ntlerle	200	Δ,	ntlerl	000
Voor		erless		Total Bull Ratio (Obs) Cair Ratio (Obs) E M 3											gmt H			lderr	
Year	Alci	hery	IVIUZZIE	eioadei	ALVV	⊏any	ALW	/ IVIIQ	ALVV	Late	Ηι	ınt 41	07	(DEL	<)	Ηι	ınt 4	181
	4111	4211	4176	Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) East (Augus										Α	М	ALW	Е	М	L
2021-2022	2			Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) Succes										0	0	0			
2022-2023	2											0	0	0					
2023-2024	2		2			2								0	0	0			
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Quota Rat					11 41.	50 :						(I. '				- 00	00		1 . 11 .
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Commission	n that a	split s	eason	Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E															
				Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) E															
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				Total Bull Ratio (Obs) Calf Ratio (Obs) Pop Est (August) State															
Reporting	Biolo	gist:			Kirk				Superv	visor:				D	onh	am			

Unit Group:	111-115	Date Prepared:	4/17/2023

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

Herd & Harvest Results

Year	Sur	vey Co	unt	Total	Bull Ratio (Obs)	Calf Ratio (Obs)	Pop Est (August)		ull Rit		50-in Beam (%)	6 Pt (%)	Antieriess
	Bull	Cow	Calf					Е	М	L	()		
2020-2021	388	786	304	1,478	49	39	2,700	75	NA	59	41	77	232
2021-2022	348	713	191	1,252	49	27	2,500	68	NA	58	44	75	178
2022-2023	217	521	177	915	42	34	2,300	64	NA	62	39	76	172

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

	p. 0 . 0 u	1						(-			, . <u>~</u> 9	-,				•				
	Year	Bı Arch	ull nery	Bı Muzzle		_	ull Early	_	ull ' Mid	Bı ALW	ull Late		Bull reda nt 41			Spike Int 46		Ind	idow centi Tags	ve
		4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	Α	М	ALW
20	21-2022	30	3	20	2	80	9	NA	NA	80	9	NA	25	NA	50	NA	50	7	2	8
20	22-2023	25	3	20	2	80	9	NA	NA	80	9	NA	25	NA	20	NA	20	11	0	5
20	23-2024	25	3	7	1	70	7	NA	NA	75	8	NA	25	NA	38	NA	38			
Ta	ag Trend	=	=	DEC	DEC	DEC	DEC	=	=	DEC	DEC	=	=	=	INC	Ш	INC	DEC	=	DEC

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

Year	Antle Arch		Antle Muzzle	rless eloader		rless Early	Antle ALW	erless / Mid	Antle ALW		De	ntlerle predat unt 41	tion	Μç	ntlerle gmt H DELP	unt	Wil	itlerle derne int 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	70	8	34	4	150	15	NA	NA	175	19	0	50	0	0	0	0	0	0	0
2022-2023	27	6	27	6	110	13	NA	NA	115	13	0	100	0	0	0	0	0	0	0
2023-2024	32	4	17	3	95	10	NA	NA	130	13	0	50	0	0	0	0	0	0	0
Tag Trend	INC	DEC	DEC	DEC	DEC	DEC	=	=	INC	=	=	DEC	Ш	=	=	=	=	=	=

Quota Rationale

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

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

Reporting Biologist:	Menghini	Supervisor:	Donham	

11

Unit Group:	161-164	Date Prepared:	4/17/2023
Population Objective:	850		

Herd & Harvest Results

Year	Sur	vey Co	unt	Total	Bull Ratio (Obs)	Calf Ratio (Obs)	Pop Est (August)	Bı Suc	ıll Rif cess		50-in Beam (%)	6 Pt (%)	Total Antlerless Harvest
	Bull	Cow	Calf					Е	М	L	()		
2020-2021				0			750	100	45	34	33	49	38
2021-2022	81	338	42	461	24	12	650	100	50	42	38	64	39
2022-2023	53	300	62	415	18	21	600	100	29	32	35	59	13

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

Year	Bı Arcl		Bı Muzzle	ull eloader		ull Early		ull / Mid	B ALW	ull Late		Bull reda nt 41			Spike ınt 46		In	ndow centi Tags	ve
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	#	of Ta	gs
2021-2022	15	2	15	2	7	1	35	4	35	4				15					
2022-2023	13	1	6	1	6	1	35	3	35	4				10					
2023-2024	6	1	4	1	0	0	30	3	35	4				15					
Tag Trend	DEC	=	DEC	=	DEC	DEC	DEC	=	=	=	=	=	=	INC	=	=	=	=	=

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

- 4- 1	<u> </u>									<u>,</u>									
Year	Antlerless Archery		Antle Muzzle	rless eloader		rless Early		erless / Mid		erless Late	Dep	itlerle predat int 41	ion	Мо	ntlerle gmt H DELM	unt	Wil	tlerle derne nt 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	E	М	Г	Α	М	ALW	E	М	٦
2021-2022	20	2	20	2	70	7			75	7							10		
2022-2023	5	2	4	2	40	4			55	6							2		
2023-2024	4	1	2	1	20	2			30	3									
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	DEC	DEC	=	=	=	=	=	=	DEC	=	=

Quota Rationale

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

Reporting Biologist: Burkett Supervisor: Bennett	
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Unit Group:	221-223	Date Prepared:	4/17/2023
Population Objective:	1600 +/-20% (1,280-1,920)		

Herd & Harvest Results

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

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

- 4-1-		1			<u> </u>			- 1 -			, . <u>~</u> 9	-,				-				
,	Year	Bı Arch	ull nery	Bı Muzzle			ull Early	_	ull ' Mid	Bı ALW	ull Late		Bull preda int 41			Spike Int 46		Ind	ndow centi Tags	ve
		4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	Α	М	ALW
202	21-2022	25	2	15	2	60	6	NA	NA	60	7	NA	NA	NA	25	NA	25	8	0	5
202	22-2023	30	3	16	2	65	8	NA	NA	65	8	NA	NA	NA	21	NA	20	6	0	7
202	23-2024	30	3	7	1	80	8	NA	NA	80	9	NA	NA	NA	38	NA	34			
Тао	g Trend	=	=	DEC	DEC	INC	=	=	=	INC	INC	=	=	=	INC	=	INC	DEC	=	DEC

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

	•																		
Year	Antlerless Archery			rless eloader		rless Early	Antle ALW	erless / Mid	Antle ALW		Dep	ntlerle oreda int 41	tion	Μç	ntlerle gmt H DELP	unt	Wil	tlerle derne nt 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	25	3	25	3	80	8	NA	NA	70	8	0	0	0	0	0	0	10	0	10
2022-2023	25	2	13	2	70	8	NA	NA	60	6	0	0	0	0	0	0	7	0	7
2022-2024	25	2	13	1	90	10	NA	NA	75	9	0	0	0	0	0	0	0	0	0
Tag Trend	=	=	=	DEC	INC	INC	=	=	INC	INC	=	=	=	=	=	=	DEC	=	DEC

Quota Rationale

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

Reporting Biologist:	Menghini	Supervisor:	Donham	

Reporting Biologist: Shanks

Unit Group) :			23	31			=		Date	Prep	oare	d:			1/17/	2023	3	
Population	Objec	ctive:			550			-											
Herd & Ha	ırvest	Resu	Its				<u> </u>		<u> </u>		<u>. </u>								
Year		rvey Co		Total		Ratio bs)		Ratio bs)		o Est gust)	Suc	ull Rif		Ве)-in am %)	6 Pt (%)	Ant	Total tlerle arves	ess
2020 2021	Bull	Cow	Calf	0						00	E	М	F	<u>`</u>		01		90	
2020-2021	E7	70	4.4	1/13	1	 70		 10			82		53		34	61			
2021-2022	57	72	14	143		79 17		19		50	69		61		25	60		76	
2022-2023	26	55	33	114	4	47		60	53	50	59		58	ა	36	69		66	
Approved	(Prev	ious '	Year) :	and R	ecom	mend	led (C	urren	t Year) Tag	Quc	ota -	Ant	tlere	∍d				
Year	•		Bı Muzzle	ull eloader	Bı ALW	ull Early	BI ALW	sull V Mid	Bi ALW	sull / Late	Dep Hu	Bull oreda int 41	ition		Spike unt 46		Inc	ndowi centiv Tags	ve
	1		4156	4256	4151			4251	4151	4251	Е	М	L	E	М	L	# (of Tag	
2021-2022	20	2	6	1	40	5	<u> </u>	<u> </u>	45	5				10		10]	20
2022-2023	12	1	6	1	40	4	<u> </u>	<u> </u>	40	4				10		10			24
2023-2024	12	1	6	1	40	4		<u> </u>	40	4				9		9			23
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	DEC	=	DEC	=	=	DEC
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Approved	(Piev	lous	Tear, a	ariu n	ecom	Menu	eu (C	urrem	Tear) lay	T T			I			^_	ماد ده	
Year		erless hery		erless eloader		erless Early		erless V Mid		erless / Late	Dep	ntlerle predat unt 41	tion	Μg	ntlerle gmt H (DELk	lunt	Wil	itlerle: derne int 41	ess
	4111	4211	4176	4276	4181	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	Е	М	L
2021-2022	20	1	10	1	45	5			50	5							30		<u> </u>
2022-2023	5	2	5	2	30	3			40	4			Ī	Γ_{-}	Γ_		25		Ī
2023-2024	7	1	6	1	40	4			50	5							0		
Tag Trend	INC	DEC	INC	DEC	INC	INC	=	=	INC	INC	=	=	=	=	=	=	DEC	=	=
			11.14.00	4.1		1 -4-	1. 14:		C 4 4	4 4		0	4						
in this unit w parameters 36% and the within object quotas into to 231 to ap	Quota Rationale The population trend for Unit 231 has remained stable. It is important to note that a September survey was conducted in this unit which is inflating the calf ratios at a higher level. Harvest metrics for Unit 231 are slightly above the parameters for a standard unit. The 2022 hunt season saw an increase in 50-inch main beam length from 25% to 36% and the % 6pt is maintaining at a high level. Antlerless harvest was reduced last year to maintain the population within objective. With the elimination of the antlerless wilderness hunt the department is reapportioning the antlerless quotas into other seasons to maintain population level. A new 5-point restricted antlered depredation hunt was added to 231 to apply pressure on elk adjacent to agricultural lands. A total of 25 tags will be issued on this hunt among five seasons. In the bull hunts we are recommending a similar quota to last year. We recommend a slight increase in																		
aritieriess A	LVV Ca	Try/late	tags u	ue to i	Ciliova	i oi uic	anuci	IC33 WI	lucino	33 Hull	۲.								

Supervisor:

Bennett

241,242

Unit Group:

Population Objective:			200																
Herd & Ha	rvest	Resu	Its																
Year	Survey Count Bull Cow Calf		Total	Bull Ratio (Obs)		Calf Ratio (Obs)		Pop Est (August)		Bull Rifle Success (%)			50-in Beam (%)		6 Pt (%)	An	Total Antlerless Harvest		
2020-2021	Duii	0011	0						110		100			20		80		6	
2021-2022	1	24	5	30	4	4	2	<u></u>	1	10	75		50		40	4			
2022-2023				0	-	.	-	-	1	10	70			3	4	50		7	
Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered																			
Year	Bı Arcl		Bull Muzzleloader		Bull		Bull ALW Mid		Bull ALW Late		Bull Depredation Hunt 4102			Spike Int 46		Landowner Incentive Tags			
	4161	4261	4156	4256	4151	4251	4151	4251	4151	4251	Е	М	L	Е	М	L	#	of Ta	gs
2021-2022	2		2		4														1
2022-2023	2		2		4														1
2023-2024	3		2		3														1
Tag Trend	INC	=	=	=	DEC	=	=	=	=	=	=	=	=	=	=	=	=	=	=
Approved	(Prev	ious `	Year) :	and R	ecom	mend	ed (C	urrent	Year) Tag	Quo	ta -	Ant	lerle	ess				
Year	Antlerless Year Archery			Antlerless Muzzleloader		_		erless / Mid	Antlerless ALW Late		Antlerless Depredation Hunt 4107			Antlerless Mgmt Hunt (DELK)			Antlerless Wilderness Hunt 4181		
2021-2022	4111	4211	4176	4276	4181 10	4281	4151	4251	4151	4251	Е	М	L	Α	М	ALW	E	IVI	L
2022-2023	3				10														
2023-2024	2		2		10														
Tag Trend	DEC	=	INC	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=
Quota Rat			-																
This elk population does not have a formal population model due to low elk numbers. The Department manages this population using harvest metrics from the previous 3 years. Quality of bull harvest, based on percent of harvest with main beams greater than 50 inches, has remained within the standard unit metrics. The Area has a rotational rut hunt, and the archery season will be in the rut this year. The shift in season structure warrants an additional archery tag. Success has remained high. Cow harvest has remained stable; therefore the department recommends a similar quota to last year.																			
Reporting	Biolo	gist:		5	Shank	s		. 8	Super	visor:				В	enne	ett			

Date Prepared: 4/17/2023

EIK QUOL	a Nec	OIIIIII	enua	lion r	OHIII														
Unit Group	2	51				Date Prepared:						4/17/2023							
Population		0																	
Herd & Ha	rvest	Resu	lts																
Year	Survey Co		ount	Total	Bull Ratio (Obs)		Calf Ratio (Obs)		Pop Est (August)		Bull Rifle Success (%)		50-in Beam (%)		6 Pt (%)	An	Total Antlerless Harvest		
2020-2021	Buil Cow Cal		Oan	0	_	_	_	-			75	IVI		3	33	67			
2021-2022				0	_		_				80			2	<u>2</u> 5	100			
2022-2023				0	_	_	_	_			13				0	100	2		
Approved	Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered																		
Year	Bull Archery			ull eloader	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	Е	М	L	Е	М	L	#	of Tag	s
2021-2022											5								
2022-2023											10								
2023-2024											5								
Tag Trend	=	=	=	=	=	=	=	=	=	=	DEC	=	=	=	=	=	=	=	=
• •	Antle	rless	Year) and Recommer Antlerless Antlerless				Antle	rless	Antlerless			ota -	ss	Α	ess ntlerle	ess	Antlerless Wilderness		
Year	4111	nery 4211	Muzzleloader 4176 4276		ALW Early 4181 4281		4151	/ Mid 4251	4151	Late 4251		int 41 M		(DELF				Hunt 4181 E M L	
2021-2022					10														
2022-2023					15														
2023-2024																			
Tag Trend	=	=	=	=	DEC	=	=	=	=	=	=	=	=	=	=	=	=	=	=
Quota Rat			w its fir	et succ		cow e	lk hunt	ers sin	ce the	hunt's	ince	otion	Dı	ie to	the	rene	ated	low	
hunter succe designated this elk herd densities. La in pinyon an in quota.	ess, the this are I depre ack of v	e Depa ea as a dating visibility	artmen non-e on priv y make	t recon stablis ate ag s this	nmend hment ricultur a diffic	ed rem area fo re. No ult hun	noving to or elk. / formal t. The l	the ant As of th survey Kawich	lerless nis yea s are c range	seasor, there conducts, where	n. The have ted control	ne C e be urre s her	entra en n ntly l d pri	al Ne lo do beca mar	evad ocum ause ily re	a Elk nente of lovesides	Plar d cas w elk s, is o	n has ses of covere	ed

	4 1100		Ciida		OIIII																
Unit Group):			20	62		_	Date Prepared:						4/17/2023							
Population	250																				
Herd & Ha	rvest	Resu	lts																		
Year Survey Co			Total	Bull Ratio (Obs)		Calf Ratio (Obs)		Pop Est (August)		Bull Rifle Success (%)		50-in Beam (%)		6 Pt (%)	An	Total Antlerless Harvest					
2020-2021	Bull 10	Cow 5	Calf 1	16	200		2	20	170		E M L		0		33						
2021-2022	1	16	1	18	(6	10	60	100			4	0	40					
2022-2023				0	-	· -			1:	50	100			7	5	75					
Approved (Previous Year) and Recommended (Current Year) Tag Quota - Antlered																					
Year	Bull ar Archery			ull eloader	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	Е	М	L	Е	М	L	#	of Ta	gs		
2021-2022	1		1		3																
2022-2023	1		1		3																
Tag Trend	=	=	1 =	=	INC	=	=	=	=	=	=	=	=	=	=	=	=	=	=		
rag rienu	_	_	_	_	INC	_	_	_		_		_	_	_	_	_	_	_	_		
Approved	(Prev	ious `	Year)	and R	ecom	mend	led (C	urrent	Year) Tag	Quo	ta -	Ant	lerle	ess						
Year		erless hery	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	Е	М	L	Α	М	ALW	Е	М	L		
2021-2022 2022-2023 2023-2024																					
Tag Trend	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=		
Reporting	Biolo	gist:			Wood	<u> </u>		S	Supervisor:						Bennett						