

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

Mule De	er Qu	iota R	econ	ımend	ation	Forn	n							
Unit Grou	ıp:		011	-013						Date	Prepared:		3/31/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason l bserve		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(ОСРІ)
2020-2021				0	223	55	278				25	38	45	1,000
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
Harvest	Result	ts												
Year		hery ss (%)		loader ess (%)		egal-W ıccess (Avg. Age		Pt or ter (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	23%		0	%	69%				53	3%	0	100%	63%	0%
2021-2022	42%		20)%	61%				49	9%	3	100%	57%	50%
2022-2023	0%		50)%	46%				43	3%	3	67%	60%	50%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cı	ırrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt		ALW unt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	20	2	7	2	65	5					0	30	2	4
2022-2023	15	2	7	1	50	3					0	30	3	4
2023-2024	15	1	4	1	35	2					0	15	2	4
Tag Trend	=	DEC	DEC	=	DEC	DEC	=	=	=	=	=	DEC	DEC	=
Quota Ra														
population contributin	. Seveing to the	ral year e lower	s of lov	v fawn ition siz	recruitr e of thi	nent, p s unit ເ	oor boo	dy cond g. The	lition of reducti	GPS on of a	e impact on toollared adultoollared adultool	ts, and pre ks that sur	edation are vived the	e all
Reportin	g Biol	ogist:			Ewa	anyk		. ;	Super	visor:		Muns	son	

Mule De	er Qu	iota R	Recom	ımeno	datior	n Forn	n							
Unit Grou	ıp:		0	14		_				Date	Prepared:		3/31/202	3
Herd Res	sults													
Year		Fall Survey		Total		ring rvey	Total		season I observe		Spring Ratio (obs)		leled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(ОСРІ)
2020-2021				0	21	9	30				43	44	52	470
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
Harvest	Result	ts												
Year		nery ss (%)		loader ess (%)		_egal-W uccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	10%	_	50)%	55%	IVI	<u> </u>		18	3%	0	0	65%	` '
2021-2022	43%		0	%	58%				50)%	1	0	63%	
2022-2023	50%		50)%	38%				29	9%	0	n/a	100%	
Approve	Arcl	nery	Muzzle	eloader	Early	/ ALW	Mid	ALW	Late	ALW	Antlerless	Junior	NR Guided	Comp
Year		ınt		unt		unt		unt		unt	Hunt	Hunt	Hunt	Tags
0004 0000	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES	4	0
2021-2022 2022-2023	10	2	5	1	15 8	1					0	10 2	0	0
2022-2023	2	1	1	1	10	1					0	3	1	0
Tag Trend	=	=	DEC	=	INC	=	=	=	=	=	=	INC	INC	=
population	deer po decline eductio	pulation e, buck ns in ta	ratios ags. An	remain other y	high fo	or Unit	014. Hu	ınter sı	ıccess	for this	s in the early unit continu ns should he	es to be s	table after	the
Reportin	g Biol	ogist:			Ew	anyk			Super	visor:		Mun	son	

Mule De	er Qu	iota R	Recom	nmend	dation	Forn	n							
Unit Grou	ıp:		0	15		<u>-</u>				Date	Prepared:	;	3/31/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f bserve		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	, , ,
2020-2021				0	102	28	130				27	45	51	230
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
Harvest I	Result	s												
Year	Succe			loader ess (%)		egal-W uccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021		<u> </u>	60)%	<u> </u>	IVI	24%		50)%	0	0%	30%	0%
2021-2022)%			29%)%	1	100%	44%	0%
2022-2023	Archery Success (%) Mic Success (%) Success (%)						9%)%	0	n/a	50%	
Approve				and R		mend	,	irrent ALW		Tag Q	uota Antlerless	Junior	NR	
Year		-	Hu	unt	Η̈́ι	unt		unt	Ηι	unt	Hunt	Hunt	Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	5	2	5	2	35	3					0	10	2	1
2022-2023	3	2	5	1	15	2				-	0	5	0	0
2023-2024	1	1	1	1	10	1					0	3	2	0
Tag Trend	DEC	DEC	DEC	=	DEC	DEC	=	=	=	=	=	DEC	INC	=
success ra	managates ha ornia m o this u	ged as ve bee oving t nit prio	n below o winte r to the	v 35% f r range huntin	or the l within g sease	ast 3 co Unit 01	onsecu 15; how	tive yea ever, th	ars. His ne lack	toricall of seve	35-45%. Th y, there was ere winters h for this unit s	a large m as reduce	igration of d the imm	deer igration
Reportin	g Biol	ogist:			Ewa	anyk			Super	visor:		Muns	son	

Mule De	er Qu	iota R	Recom	ımeno	dation	Forn	n							
Unit Grou	ıp:		02	21		_				Date	Prepared:	;	3/31/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f bserve		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021				0	524	128	652				24	35	41	450
2021-2022			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
Harvest	Result	ts												
Year	Succe	ss (%)		loader ess (%)	Sı	egal-W iccess ((%)	Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021			10	10%	E	M 	79%		50	5%	0	0%	67%	(70)
2020-2021	-2022 31 76 -2023 28 80 vest Results Archery Success (%) E L -2021 7%2022 7%2023 15% roved (Previous Young 100 100 100 100 100 100 100 100 100 10						46%			9%	1	0%	46%	
2021-2022				5%			39%)%	1	100%	75%	
2022-2023	1370		7.	770			39 /0		30	770	Į.	100 /0	7370	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year		-		eloader unt	-	ALW	I	ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	Archery Success (%) E			NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	5	2					40	3	0	15	2	0
2022-2023	15	2	5	1					30	2	0	15	2	0
2023-2024	8	1	1	1					20	1	0	7	2	0
Tag Trend	DEC	DEC	DEC	=	=	=	=	=	DEC	DEC	=	DEC	=	=
these fires	tate de , the po ny Lega	er herd opulational Wear	on estin	nate ha	ıs decli as bee	ned acı n stead	ross the lily decl	e past t lining a	hree ye cross tl	ears. Ur	nges burned nit 021 is ma three years	naged as	a non-sta	ndard unit
Reportin	a Biol	ogist:			Ewa	anyk		;	Super	visor:		Muns	son	

Mule De	er Qu	iota R	ecom	meno	dation	Forn	n							
Unit Grou	ıp:		02	22		<u>.</u>				Date	Prepared:	;	3/31/2023	3
Herd Res	sults													
Year		Fall Survey		Total	Sur	ring vey	Total	(0	eason f observe	d)	Spring Ratio (obs)	Buck	eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn	00	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021	4.4	00	40		66	17	83				26	34	45	550
			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
Harvest I	Result	s												
Year	Succe	ss (%)		loader ss (%)	Sı	egal-W iccess ((%)	Avg. Age		t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020 2021			20)%	52%	M 			51	1%		100%	50%	100%
	22-2023 31 66 42				49%					5%	2	50%	64%	100%
	Archery Success (%) E)%)%	56%					5%	1	0%	50%	
2022-2023	40 /0		20	770	30 /0				00	770	'	0 70	30 70	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cι	ırrent	Year)	Tag Q	uota		1	Т
Year		nery unt		eloader unt		ALW unt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	5	2	45	4					0	15	2	1
2022-2023	6	2	5	1	35	2					0	15	2	0
2023-2024	5	1	3	1	35	2					0	15	2	0
Tag Trend	DEC	DEC	DEC	=	DEC	=	=	=	=	=	=	=	=	DEC
Quota Ra			n in Ur	nit 022 l	has bee	en stab	le for th	ne past	three y	ears, v	vith good fav	vn recruitn	nent the pa	ast two
-						•		-	_		ensecutive ye	-	n buck rat	IOS.
Reportin	g Biol	ogist:			Ewa	anyk		;	Super	visor:		Muns	son	

Mule De	er Qu	iota R	ecom	ımeno	dation	Forn	n							
Unit Grou	ıp:		03	31						Date	Prepared:		2023	
Herd Res	sults													
Year		Fall Survey		Total	Spr Sur	ing vey	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(СОРІ)
2020-2021	58	230	97	385	728	254	982	25	42	34	35	28	39	2,000
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
Harvest	Result	ts												
Year				loader ss (%)		egal-W ccess (Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	17%		67	7%	58%				43	3%	8	80%	78%	78%
2021-2022	30%		60)%	58%				39	9%	7	63%	70%	64%
2022-2023	Success (%) E L 2020-2021 17% 221-2022 30% 222-2023 25%			5%	66%				34	! %	3	100%	79%	50%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt	Early Ηι	ALW int	Mid A	ALW unt	Late Hı	ALW ınt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	20	2	5	2	140	7						65	8	17
2022-2023	15	2	4	1	90	4						35	6	18
2023-2024	9	1	4	1	85	5						30		13
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	DEC	DEC	DEC
Quota Ra			ht dron	in the	nonulai	tion wh	ich has	hoon	occurrir	ag over	the last few	voare Po	eteogeon	huck
ratios have conditions	e been were e	stable extreme	over the	e last fe upper e	ew year elevatio	s with ons and	a slight I have d	ly highe continu	er than ed thro	norma ughout	I fawn loss the the winter. Nonce again s	nis last wir With the di	nter. Snov ry conditio	v ns that
Reportin	g Biol	ogist:			Par	tee		. ;	Super	visor:		Muns	son	

Mule De	er Qu	iota R	Recom	ımeno	dation	Forn	n							
Unit Grou	ıp:		0;	32						Date	Prepared:		2023	
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f bserve		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021	35	127	58	220	272	108	380	28	46	36	40	32	45	900
2021-2022	23	98	44	165	261	74	335	23	45	36	28	31	42	850
2022-2023	28	98	41	167	289	70	359	29	42	33	24	33	42	800
Harvest I	Result	ts												
Year	Succe	ss (%)			Sı	egal-W iccess ((%)	Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021			14	1%	-	IVI	L		22	2%	16	()	46%	100%
2021-2022	28 98 vest Results Archery Success (%) E L 1-2021 3% -2022 5% 1-2023 17%									1%	4		45%	75%
2022-2023	E L 1-2021 3% -2022 5% 1-2023 17% 1-2024 (Previous)									1%	6		65%	100%
		vious	Year)	and R		mend	ed (Cu	ırrent						
Year		-			-			ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	Archery Success (%) E			NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	60	Muzzloader Success (%)				8						55	0	6
2022-2023	30	3	Success (%) Success (%) E									40	3	3
2023-2024	20	2	4	1	40	2						15		7
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	DEC	=	INC
	as see k and f	n anoth awn ra	tios. Sp	oring su	ırveys i	ndicate	d a hig	her-tha	n-avera		ge over the vn loss due t	-		
Reportin	a Biol	ogist:			Pai	rtee		;	Super	visor:		Muns	son	

Mule De	er Qu	iota R	ecom	meno	dation	Forn	n							
Unit Grou	ıp:		0	33		<u>-</u>				Date	Prepared:	;	3/31/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason fobserve		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	, , ,
2020-2021				0			0					37	45	400
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	76	50	20	33	45	300
Harvest	Result	ts												
Year	Succe	ss (%)			Sı	iccess ((%)	Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021		Archery Success (%) E		М	L		52	2%		0%	60%			
2021-2022	10%)%		0%	60%	
2022-2023	0%									9%		100%	83%	
	Arc	hery	Muzzle	eloader	Early	ALW	Mid	ALW	Late	ALW	Antlerless	Junior	NR Guided	Comp
Year	RES	Archery Coess (%) L		NR	RES	unt NR	RES	unt NR	Hunt RES	Hunt RES	Hunt	Tags		
2021-2022	10					2					0	15	1	0
2022-2023	5	2	5	1	15	2					0	6	1	0
2023-2024	7	1	1	1	15	1					0	5	1	0
Tag Trend	INC	DEC	DEC	=	=	DEC	=	=	=	=	=	DEC	=	=
_	he mul ne harv	e deer est hav	e rema	ained st	able th				-		arvest succe	•	-	
Reportin	a Biol	oaist:			Ewa	anyk			Super	visor:		Muns	son	

Mule De	יפו ענ	iola N	econ	menc	ation	I FOII	11							
Unit Grou	ıp:		0;	34						Date	Prepared:		2023	
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		season l observe		Spring Ratio (obs)		leled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(ОСРІ)
2020-2021	35	127	58	220	272	108	380	28	46	36	40	32	45	230
2021-2022	23	98	44	165	261	74	335	23	45	36	28	31	42	210
2022-2023	29	98	41	168	289	70	359	30	42	32	24	33	42	200
Harvest	Result	ts												
Year		hery ess (%)		loader ess (%)	_	egal-W iccess (-	Avg. Age		Pt or ter (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	0%		66	6%	26%				43	3%	0	0%	90%	88%
2021-2022	0%		20)%	32%				22	2%	0	50%	75%	50%
2022-2023	0%		0	%	55%				36	6%	0	50%	50%	90%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota	Ι	l	<u> </u>
Year		hery unt		eloader unt		ALW unt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	7	2	5	2	30	2						8	2	5
2022-2023	5	2	2	1	20	2						5	2	6
2023-2024	8	1	2	1	20	1						4		9
Tag Trend	INC	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	DEC	DEC	INC
consistent additional	lation h ∶includi fawn lc	as reming rations	os. Like Γhis uni	many it along	of our o	other u	nits, co saw a 3	ming of 30% fav	ff a dro wn loss	ught ar s this w	icross the bo nd into a hea inter which v that tag nun	ivy winter l vill have ar	has resulte n affect on	this
this year.							,				J			
Reportin	g Biol	logist:			Pai	rtee		;	Super	visor:		Mun	son	

Mule De	er Qu	ıota R	Recom	ımeno	dation	Forn	n							
Unit Grou	ıp:		03	35						Date	Prepared:		2023	
Herd Res	sults													
Year		Fall Survey	,	Total		ring vey	Total		eason F observe		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	, , ,
2020-2021	22	66	28	116	167	59	226	33	42	32	35	22	37	600
2021-2022			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
Harvest	Result	ts												
Year	Succe	ess (%)		loader ss (%)	Sı	egal-W iccess ((%)	Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	6%		29	9%	43%	101			30)%	10	67%	61%	33%
2021-2022	St Results Archery Success (%) E			9%	39%				26	6%	3	33%	38%	67%
2022-2023	Archery Success (%) E			%	28%				34	1%	2	100%	52%	100%
Approve	d (Pre	vious	Year)	and R	Recom	mend	ed (Cu	irrent	Year)	Tag Q	uota			
Year	2021 6% 29% 43% 30% 30% 26% 29% 39% 26% 2023 21% 0% 28% 34% 34% 28% Archery Muzzleloader Early ALW Mid ALW Late ALW										Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	60	7	7	2	75	5						35	3	3
2022-2023	20	2	3	1	30	2						25	3	2
2023-2024	20	2	2	1	40	2						15		4
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	DEC	DEC	INC
Quota Ra														
average fa	all surve aking i	ey and t difficu	one of t	the low ate in t	est spr he valle	ing sur eys. Th	veys on is unit s	record	d. With averag	the ext e fawn	t few years. reme winter loss this wir	many of th	ne deer dr	opped
Reportin	g Biol	logist:			Pai	rtee		;	Super	visor:		Muns	son	

Maic De	CI QU	iota i	CCOII		autioi		•							
Unit Grou	ıp:		041,	042		<u>.</u>				Date	Prepared:	/	April 2023	3
Herd Res	sults													
Year		Fall Survey	,	Total		ring vey	Total		eason l		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)
2020-2021				0			0							700
2021-2022				0			0							650
2022-2023				0			0							600
Harvest I	Result	ts												
Year	Arc	hery ss (%)		loader ess (%)		egal-W iccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	7%		25	5%	48%				30)%	5	100%	79%	no tags
2021-2022	15%		18	3%	18%				30)%	0	0%	32%	no tags
2022-2023	7%		42	2%	67%				53	3%	1	100%	36%	no tags
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt		ALW	I	ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	10	2	25	3						15	2	0
2022-2023	15	2	10	2	8	1						15	2	0
2023-2024	15	2	5	2	8	2						10	2	
Tag Trend	=	=	DEC	=	=	INC	=	=	=	=	=	DEC	=	=
conservati success ra	ation is vely to ate was	not m achiev 80%,	e a Res with the	sident <i>A</i> e 3-yea	Any Leg r avera	gal Wea ge of 4	apon (A 8%. A (LW) H	unt suc ed redu	cess rauction in	objectives, tl ate of greate In the Reside ght to be at a	er or equal ent ALW qu	to 45%. L uota has fi	ast year's
Reportin	g Biol	ogist:			Kyle	Neill		,	Super	visor:		Cooper N	Munson	

Fall

043 044 046

Spring

Unit Group:

Herd Results

Year		Survey	,	Total	Sui	vey	Total	(0	observe	d)	(obs)	Buck	Ratio	Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn	<u> </u>	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Ουρί)
2020-2021				0	476	124	600				26	29	39	1,700
2021-2022	62	195	97	354			0	32	50	38		29	41	1,500
2022-2023	70	294	136	500			0	24	46	37		26	37	1,000
Harvest l	Result	s												
Year	Arcl Succe	nery ss (%)		loader ss (%)		egal-W uccess (Avg. Age		or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	16%		26	6%	46%	IVI	48%		24	1%	12	50%	68%	` /
2021-2022	6%			3%	38%		32%			1%	11	100%	57%	
2022-2023	11%		1)%	39%		56%			6%	9	50%	62%	0%
_022 2020	1 1 70			. , ,	0070	1	0070			- / -		0070	0270	1 570
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cı	ırrent	Year)	Tag Q	uota		_	
Year		nery unt		eloader unt	-	ALW		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	60	6	20	2	70	6			30	3		70	4/1	1
2022-2023	70	8	20	2	80	6			35	2		70	3/1	1
2023-2024	50	5	20	1	65	4						25	3	
Tag Trend	DEC	DEC	=	DEC	DEC	DEC	=	=	DEC	DEC	=	DEC		
approxima 2023 Unit Overall, th	arvest 0 Itely a 3 045 wa is herd s 1,000	Guidelir 30 buck is split has co deer (cs: 100 out of tontinued 1,350 d	does p his unit d to ded eer wit	ost-sea group cline sind Unit (ason ra due to nce 201 045 add	tio.NEV consist 13 wher	V for 20 tently d n the es	023 AL emons stimate	W seas trating a d popu	nent unit for son is now a a much high lation was 3 (includes U	single sea er post-se 500. The	ason. NEV ason buck 2023 popu	V for ratio. Ilation
Reportin	g Biol	ogist:			Kyle	Neill		· -	Super	visor:		Cooper N	Munson	

Date Prepared: April 2023

Modeled

Pop

Spring

Ratio

Postseason Ratios

Unit Grou	p:		04	45		·				Date	Prepared:	/	April 2023	3
Herd Res	ults													
Year		Fall Survey		Total	Spi Sur	ring vey	Total		eason F		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(00)
2020-2021				0			0							
2021-2022				0			0							350
2022-2023				0			0							350
Harvest F	Result	is												
Year		nery ss (%)		loader ss (%)	Su	egal-W iccess ((%)	Avg. Age		ot or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	E	L			E	M	L					(70)		(70)
2021-2022														
2022-2023									53	3%				
2022 2020	Approved (Previous Year) and									,,,				
Approved	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year		nery unt		eloader unt	Early Hu	ALW ınt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	Year Hunt Hunt RES NR RES NR					NR	RES	NR	RES	NR	RES	RES		
2021-2022														
2022-2023														1
2023-2024	15	1	10	2	20	2						10	2	
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	=	=	=	INC	INC	DEC
Quota Ra		_												
is to be ma split out of year avera	naged Unit G ge pos o ache	conse roup 04 t-seaso ive an	rvativel 43-046 on buck overall	y to acl due to ratio (harves	hieve a consist 2017,2 t of 20 ·	Residently d 19820 19820 30 bu	ent Any lemons 021) Ur cks/ ye	Legal trating hit 045 ar and	Weapo a highe = 46 bu an ALV	on Hunt er post- icks: 10	NDOW man success rat season buck 00 does. 202 dent Hunt su	e of >= 45 c ratio thar 23 reccom	%. Unit 04 n adjacent ended quo	15 was units. 3 otas are
Reporting	g Biol	ogist:			Kyle	Neill			Super	visor:		Cooper N	Munson	

Maic De	nit Group: 051 Date Prepared: 2023													
Unit Grou	ıp:		0	51		ī				Date	Prepared:		2023	
Herd Res	sults													
Year		Fall Survey		Total	Spi Sur	ring vey	Total		eason F bserved		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	, , ,
2020-2021	51	114	54	219	613	289	902	45	47	33	47	28	40	2100
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	1,900
Harvest	arvest Results													
Year	Arc	hery ss (%)		oader ss (%)	,	egal-W iccess (•	Avg. Age	4-P Greate	t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021 12% 24% 41% 51% 19											57%	59%	93%	
2021-2022	30%		40)%	45%				42	2%	8	67%	48%	61%
2022-2023	17%		24	! %	53%				49)%	24	88%	63%	82%
Approve	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota		ND			
Year Archery Muzzleloader Early ALW Mid ALW Late ALW Antlerless Hunt Hunt Hunt Hunt Hunt										Junior Hunt	NR Guided Hunt	Comp Tags		
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	55	6	15	2	170	15					25	70	7	16
2022-2023	25	3	20	2	160	8					25	65	9	21
2023-2024	30	3	15	1	140	9					0	50		18
Tag Trend	DEC	DEC	=	DEC	DEC	DEC	=	=	=	=	DEC	DEC	DEC	INC
	mbers	were sl									on levels hav			
population Buck ratio	within s during ht drop	the nex g surve due to	kt coup y have fawn r	le of ye droppe ecruitm	ars. Su ed from ent. Th	iccess previo ie Mart	this las us year	t year v s resul	vas god ting in a	od with a reduc	the four-poi tion in tag th aprove range	nt class re nis year. Tl	maining st his popula	table. tion may
Reportin	Reporting Biologist: Partee Supervisor: Munson									visor:		Muns	son	

	Unit Group:	061, 062, 064, 066-068	Date Prepared:	4/7/2023	
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Herd Results

Year		Fall Survey		Total	Spr Sur	ring vey	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021	372	1,208	834	2,414	2,728	1,166	3,894	31	69	53	43	34	49	7,300
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	47	7,900

Harvest Results

Year	Arcl Succe	nery ss (%)	Muzzloader Success (%)		egal-W iccess (Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		Е	М	L				(%)	(/	(%)
2020-2021	14%	n/a	38%	34%	n/a	45%		45%	254	49%	60%	80%
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%		38%	289	59%	59%	60%

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

Year		nery unt		eloader unt	Early Hu		Mid A	ALW ınt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	270	30	70	8	800	50	n/a	n/a	95	5	240	320	40,5	4
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			90	3	140	340	37,5	5
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	INC	INC

Quota Rationale

Decrease in antlerless harvest recommendation in response to above average overwinter conditions leading to
anticipated decreased overwinter survival of both fawns and adults. The proposed antlerless harvest of 2% reported doe
harvest would result in 3% population growth. Antlered harvest recommendations target a post season buck ratio of
33:100.

Reporting Biologist:	Allen	Supervisor:	Donham	

065 Alternative Unit

Unit Group:

Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		season l observe		Spring Ratio (obs)	Mod Buck	eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(COPI)
2020-2021	n/a	n/a	n/a	0			0	n/a	n/a	n/a		n/a	n/a	650
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
Harvest	Result	ts												
Year		hery ss (%)		loader ess (%)		egal-W iccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	44%		20)%	61%				38	3%	0	50%	83%	n/a
2021-2022	40%		10	0%	63%				43	3%	0	67%	85%	n/a
2022-2023	25%		4()%			0	67%	87%	50%				
Approve Year	Arc	vious hery unt	Muzzle	and Reloader	Early	mend ALW unt	Mid	ALW unt	Late	Tag Q ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES	Hulli	Tags
2021-2022	5	2	5	2	45	5	1.20				1.25	15	3	
2022-2023	10	2	5	2	35	4						15	3	2
2023-2024	5	1	5	2	20	2						10	3	2
Tag Trend	DEC	DEC	=	=	DEC	DEC	=	=	=	=	=	DEC	=	=
of 8 collare early Nove Recomme harvested improved I	Octobed deer 2 anded quality supportant years were with the control of the contro	er 202: r perish 2022 ar luota re rting 4- ar, it is s vere like	ned. The nd late eduction points of still on the ely lost	e high r March : ns the p or bette the low this wir	mortalit 2023 m ast fev r. While end of nter. Th	y rate in ost of lost of lost of lost of lost of lost on the polymer. The more desired in the more desired	s not und the second of the se	nexpection 15 was I lirected age of head of 50-7 perience	ted given blanket I at imp narveste 75%. Ma	en the ved und roving ed buck any of t	en October 2 well above a er a foot or r the declining as supporting the improver is a setback	verage sn more of sn g percentag g 4-points ments in sh	owfall. Bef ow. ge of buck or better a nown in re	tween ss gain cent
Reportin	g Biol	ogist:			Jeff	ress			Super	visor:		Donh	nam	

Date Prepared: 4/7/2023

Unit Group:	071-079, 091	Date Prepared:	4/7/2023	

Herd Results

Year		Fall Survey		Total	Spr Sur	ing vey	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021				0	1,930	616	2,546				32	35	46	11,100
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

Harvest Results

Year		nery ss (%)	Muzzloader Success (%)		egal-W		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		E	М	L				(%)	()	(%)
2020-2021	22%	38%	45%	47%		67%		54%	194	76%	72%	100%
2021-2022	21%	41%	45%	57%		70%		40%	185	65%	77%	83%
2022-2023	24%	30%	36%	54%		69%		35%	93	69%	73%	0%

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

Year	Arch Hu	,		eloader unt	Early Hu		Mid A	ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	280,30	30,3	85	7	850	60			200	15	290	380	35,10	
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
Tag Trend	DEC	DEC	DEC	=	DEC	DEC	=	=	DEC	DEC	DEC	DEC	DEC	INC

Quota Rationale

The drop in population this year is a result of tough winter conditions. Although spring fawn ratios have been close to recent averages, it is likely additional fawns and adult deer will die once they start migrating back to summer range. Observed fall buck ratios from cameras on the highway 93 overpasses indicate the buck ratio has been coming down toward objective. The decrease in antlered mule deer tag recommendations is the result of targeting the post-season buck ratio objective of 30 bucks per 100 does. Hunter success and the number of 4 points in the harvest decreased again in 2022. This is due primarily to reduced fawn recruitment in 2016 - 19 which has resulted in the older age classes of bucks being more under represented in the population than is typical. With the recent increase in fawn recruitment the past few years, the proportion of older age class bucks is expected to begin building back. Doe quotas will remain conservative and the harvest of such a minimal number of animals will have no biological impact on the population.

Reporting Biologist:	Huebner	Supervisor:	Donham	

Mule De	er Qu	ota R	lecom	ımeno	dation	Forn	n							
Unit Grou	ıp:		08	81						Date	Prepared:		4/7/2023	
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021				0			0							900
2021-2022				0	074	07	0							850
2022-2023				0	371	97	468				26			700
Harvest I	Result	s												
Year	Arch Succe			loader ss (%)		egal-W iccess (Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	40%		79	9%	82%	101	_		78	3%		100%	69%	0%
2021-2022	22%				40%					9%			67%	
2022-2023	-				50%				86	5%		0%	80%	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	rrent	Year)	Tag Q	uota			
Year	Arch Hu	•		eloader unt	Early Hu	ALW ınt	Mid A	ALW ınt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	10	2	20	2	65	4						35	3	
2022-2023	5	2	15	2	40	2						20	3	
2023-2024	3,3	1,1	8	2	30	1						15	3	4
Tag Trend	INC	INC	DEC	=	DEC	DEC	=	=	=	=	=	DEC	=	INC
Quota Ra														
recommen small sam	ndations ple of to ow that	s. The eeth we t tags c	three yere age ould re	ear ave d from main s	erage h harves imilar to	unter s ted bu o last y	success cks this ear, the	and pe	ercenta The av	ge of 4 erage a	used to dete	ooth within ears old. <i>I</i>	the objec Although th	ne hunt
Reportin	g Biol	ogist:			Hue	bner		;	Super	visor:		Donh	am	

Unit Group:	101-109	Date Prepared:	4/12/2023
		_	

Herd Results

Year		Fall Survey		Total	Spr Sur	•	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021	536	1,629	868	3,033	4,259	1,482	5,741	33	53	40	35	35	48	13,000
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

Harvest Results

Year	Arcl Succe	nery ss (%)	Muzzloader Success (%)		egal-Wo		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		E	М	L				(%)	()	(%)
2020-2021	13%	32%	31%	20%	21%	51%		36%	160	57%	49%	53%
2021-2022	13%	25%	15%	28%	30%	59%		32%	156	49%	48	78%
2021-2023	10%	20%	26%	25%	27%	43%		26%	111	64%	51	93%

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

Year	Arch Hu	,		eloader unt	Early Hu		Mid /			ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	500, 20	50, 2	80	9	850	65	850	65	150	10	160	490	25,27,6	32
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	
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	DEC	INC	DEC

Quota Rationale

The winter of 2022-2023 was exceptional in duration, low average temp, and snowpack. The winter resulted in over 50% fawn loss, as well as significant adult loss. From January 1st-April 10th, 26% of the collared adult female deer died. The full effects of this winter have not been fully realized, so the proposed quotas are building in moderate conservatism. At winters conclusion, if the winterkill is less than projected it can easily be addressed with future quota recs. Five of the 6 lowest total antiered deer harvests since 1976 have all taken place in the last 6 years, including 2022. The current proposed antiered deer quotas are targeting a post-season ratio of 32 bucks:100 does.

Reporting Biologist:	Roberts	Supervisor:	Donham
<u> </u>		•	

Unit Group:	111-113	Date Prepared:	4/7/2023
	•	-	

Herd Results

Year		Fall Survey		Total	Spr Sur	•	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021	255	983	452	1,690	1,210	380	1,590	26	46	37	31	28	41	3,600
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

Harvest Results

Year	Arcl Succe	nery ss (%)	Muzzloader Success (%)		egal-W		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		E	М	L				(%)	()	(%)
2020-2021	25%	NA	50%	46%	NA	70%		29%	28	44%	65%	NA
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

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

Year		nery unt		eloader unt	Early Hu		Mid A	ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	30	3	15	2	270	20	0	0	25	2	0	120	11,1	0
2022-2023	30	3	10	2	200	13	0	0	20	2	0	90	12,1	0
2023-2024	25	3	6	1	170	10	0	0	20	1	0	55	9,1	0
Tag Trend	DEC	=	DEC	DEC	DEC	DEC	=	=	=	DEC	=	DEC	INC	=

Quota Rationale

This population continues to decline due to poor fawn recruitment in 4 of the last 5 years, severe drought, and the severe winters of 2018-19 and 2022-23. Quota reductions have been occurring since 2018. Hunter success and %4-pt in harvest improved during the 2022 deer season. The observed post-season buck and fawn ratios in the fall of 2022 were good at 33 bucks:100 does:49 fawns. There were signs of slight improvement in this population until the 2022-23 winter occurred. The 2022-23 winter continued population decline in this herd. Recommended quotas are based on a postseason buck ratio of 33 bucks:100 does.

Reporting Biologist:	Menghini	Supervisor:	Donham
		20	Ver 1.0 Rev 3/10/2022

Unit Group:	114-115	Date Prepared: _	4/7/2023
		·	

Herd Results

Year		Fall Survey		Total	Spr Sur	ing vey	Total	(observed)		,		Modeled Buck Ratio		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021				0	298	84	382				28	30	40	1,100
2021-2022				0	465	74	539				16	31	36	1,000
2022-2023				0	283	105	388				37	25	39	1,000

Harvest Results

Year		nery ss (%)	Muzzloader Success (%)		egal-W iccess (Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		Е	М	L				(%)	(**)	(%)
2020-2021	13%	NA	58%	58%	NA	80%		53%	29	100%	62%	83%
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%

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

Year		nery unt		eloader unt	Early Hu		Mid A	ALW unt	Late Hı	ALW ınt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	70	7	20	2	60	6	0	0	5	2	40, 10	30	2,1	6
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
Tag Trend	=	=	INC	=	INC	=	=	=	=	=	=	INC	=	DEC

Quota Rationale

This unit group is managed as an alternative hunt and current management guideline direction is to manage for a postseason buck ratio of 35 bucks:100 does, hunter success rate between 40-55%, and percent 4-point or greater at 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 55% and the 3-year average percent 4-point or greater is 57%. Success rates have been increasing while maintaining the percent 4-point or greater in harvest. A slight quota increase of 5 tags in each of the following seasons; ALW Early, Muzzleloader, and Junior hunts.

Reporting Biologist:	Menghini	Supervisor:	Donham
		21	Ver 1.0 Rev 3/10/2022

Ver. 1.0, Rev. 3/10/2022

Unit Group:	121	Date Prepared: _	4/7/2023
		_	

Herd Results

Year		Fall Survey		Total	Spr Sur	ing vey	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	76	505	254	835	710	257	967	15	50	44	36	24	38	2,100
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

Harvest Results

Year	Arcl Succe	nery ss (%)	Muzzloader Success (%)		egal-Wo		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		E	М	L				(%)	()	(%)
2020-2021	20%	33%	46%	46%		77%		28%	11	50%	68%	67%
2021-2022	30%	33%	60%	51%		38%		36%	7	57%	90%	50%
2022-2023	33%	0%	75%	59%		71%		38%	0	50%	73%	100%

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

Year	Arcl		Muzzle	eloader unt	Early Ηι		Mid		Late Hu	ALW	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15,3	2,2	7	2	85	2			8	2		45	7,1	5
2022-2023	4,2	2,2	3	2	40	2			5	2		15	3,1	3
2023-2024	9,1	5,1	2	1	45	3			5	2		15	2,1	5
Tag Trend	INC	INC	DEC	DEC	INC	INC	=	=	=	=	=	=	DEC	INC

Quota Rationale

The last two post-season survey observed buck ratios were 15 and 18 bucks per 100 does, respectively. Population estimate adjustments have occurred to reflect the depressed buck ratio and declining population more accurately. Quotas were drastically reduced in 2021 and 2022. The 2022-23 winter was severe. Most of this population seems to have fared better this winter than neighboring areas, and the population decline appears to be less severe than expected. A slight increase in quotas is recommended in response to an improving buck ratio due to quota reductions in the previous two years. Quota recommendations are still below historic quotas and are being based off a post-season buck ratio of 35 bucks:100 does.

Reporting Biologist:	Menghini	Supervisor:	Donham	

	er Qu	ota R	Recom	menc	lation	Forn	n							
Unit Grou	ıp:		131	-134						Date	Prepared:	3	3/29/2023	3
Herd Res	ults													
Year		Fall Survey		Total	Spr Sur	ring vey	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn	<u> </u>	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Oopt)
2020-2021				0	482	121	603				25	40	48	4,300
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
Harvest I	Result	S												
Year	Arch Succes	•		oader ss (%)	-	egal-W iccess (•	Avg. Age		t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	52%	0%	51	1%	32%	0%	38%		32	2%	20	57%	60%	64%
2021-2022	27%	0%)%	29%	0%	31%			' %	32	60%	58%	30%
2022-2023	50%	0%)%	56%	0%	25%			8%	2	55%	56%	0%
Approved Year	Arch Hu	nery	Muzzle		Early		Mid	ALW unt	Late		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		J
2024 2022				-	222	20		_	·					8
2021-2022	60	6	35	4	300	20	0	0	30	2	0	170	14,2	U
2021-2022	60 6	6	35 5	2	300 45	20	0	0	30 4	2	0	170 20	14,2 13,2	4
							_	_						
2022-2023	6	2	5	2	45	2	0	0	4	2	0	20	13,2	4

Unit Group:	141,142,143,144,145	Date Prepared:	3/29/2023	

Herd Results

Year		Fall Survey		Total	Spr Sur	•	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021				0	1,357	377	1,734				28	30	41	3,900
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

Harvest Results

Year	Arch Succe	nery ss (%)	Muzzloader Success (%)		Success (%)		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		Е	М	L				(%)	()	(%)
2020-2021	21%	0%	60%	44%	0%	54%		30%	25	58%	67%	64%
2021-2022	18%	0%	26%	47%	0%	43%		34%	33	80%	66%	46%
2022-2023	20%	0%	56%	45%	0%	50%		31%	22	44%	70%	89%

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

 	· •						· •		<i></i>					
Year	Arch Hu	nery ınt		eloader unt	Early Hu		Mid A	ALW ınt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	200	25	20	2	230	15	0	0	25	2	0	190	11,1	14
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
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	DEC	DEC	=	DEC	INC	INC

Quota Rationale

Environmental conditions in the area were noticeably better than those in some surrounding units throughout 2022. Above average precipitation and range conditions were seen throughout the spring and early summer, and precipitation events in the fall provided critical green up for deer in preparation for winter. The 2022 post-season deer survey indicated a fawn production ratio of 60 fawns:100 does. The post-season observed buck ratio however, saw a significant drop below the statewide standard management objective and the 5-year average. The 2023 spring deer flight yielded a record sample of 2,300 deer as well as an uptick in the fawn recruitment from previous years. A population estimate adjustment was made this year to more accurately reflect the reduced observed buck ratio. Quota recommendations have been conservatively reduced in order to begin moving back towards the standard unit post-season management objective of 30 bucks:100 does. A post-season survey will be prioritized in 2023.

Reporting Biologist:	Kirk	Supervisor:	Donham
		24	Ver 1.0 Pey 3/10/2022

Ver. 1.0, Rev. 3/10/2022

Unit Group	o: 151-156	Date Prepared:	3/29/2023

Herd Results

Year		Fall Survey		Total	Spr Sur	ring vey	Total		eason F bserve		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	()
2020-2021	81	258	148	487	547	162	709	31	57	44	30	36	41	2,000
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

Harvest Results

Year		nery ss (%)	Muzzloader Success (%)		Any-Legal-Weapon Success (%)		Avg. Age	4-Pt or Greater (%)	Total Antlerless Harvest	NR Guided Success	Junior Success (%)	Comp Tag Success
	Е	L		E	М	L				(%)	()	(%)
2020-2021	9%		50%	49%		67%		43%	12	100%	78%	100%
2021-2022	33%		75%	39%		73%		38%	3	60%	68%	100%
2022-2023	8%		63%	44%		63%		39%	3	100%	69%	100%

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

Year	Arcl Hu	nery	Muzzle Hu	eloader	Early Hu		Mid A	ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided	Comp
, our	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES	Hunt	Tags
2021-2022	60	6	9	4	160	15			15	2	0	65	5,1	5
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
Tag Trend	INC	INC	INC	=	INC	INC	=	=	INC	INC	=	DEC	INC	=

Quota Rationale

No fall aerial post-season survey was conducted in Area 15 during 2022. An aerial spring survey was conducted in early March 2023, during which biologists were able to classify a size sample of deer equal to the 10-year average. Greater than average snowfall occurred in much of Area 15 during the 2022-2023 winter. Despite the comparatively harsh conditions, deer observed during survey were in better body condition than was seen in many other areas in the Eastern Region, likely due to portions of their winter range remaining accessible at lower elevations and on south-facing slopes. Area 15 continues to experience heavy horse use (close to 500 horses were observed during spring surveys), thus range and spring degradation were observed during our aerial surveys. Despite many challenges, the Area 15 herd appears to be stable at present. Last year, NDOW biologists recommended a conservative quota increase designed to reach a post season buck ratio of 34 bucks: 100 does, which is above objective, but was a step towards the objective of 30 bucks: 100 does. A quota reduction was requested by the CAB, and the Commission approved a partial reduction in tags. Due to that reduction, we are now even further above objective in Area 15, so another, larger increase is necessary to start managing back toward a ratio of 30. To continue our gradual movement toward the objective of 30 bucks:100 does, harvest rates of antlered mule deer for this year's recommendations are designed to target a post-season ratio of 33 bucks:100 does, still above objective, but moving in the right direction.

Reporting biologist. Hale Supervisor. Domain	Reporting Biologist:	Hale	Supervisor:	Donham	
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Unit Grou	ıp:		161	-164						Date	Prepared:		4/3/2023	i
Herd Res	sulte													
Year	Juits	Fall Survey		Total		ing vey	Total		eason F		Spring Ratio (obs)		eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(ОСРІ)
2020-2021				0	227	52	279				23	34	43	3,600
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
Harvest I	Result	ts												
Year		nery ss (%)		loader ss (%)		egal-W iccess (Avg. Age		t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	16%		28	3%	28%		35%		30)%	29	36%	61%	0%
2021-2022	12%		35	5%	23%		27%		28	3%	26	43%	53%	80%
2022-2023	17%		7	%	32%		30%		22	2%	1	100%	40%	0%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year	Archery Hunt Hunt Hunt Hunt Hunt Hunt Hunt Hunt											NR Guided Hunt	Comp Tags	
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	140	15	25	3	290	15			35	2		140	19	7
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
Tag Trend	DEC	DEC	DEC	=	DEC	INC	=	=	INC	=	=	DEC	DEC	DEC
ratio than y antlered m historic wir portion of t	16 mule years p rule dee nter mo the pop	e deer l ast. Al er is lov sisture, oulation	though v. The mule d estima	, the in aerial s leer sho ate. The	crease pring s ould be survey	in recr urvey v congre y condi	uitment vas exh egated tions ar	is pror naustive on wint nd subs	nising, e and ye er rang sequen	4-point et resul e and s t samp	year's spring or greater p ted in a low sample sizes le sizes indic s slight redu	percentage er sample s should be cated a fur	e on harve size. With e a signific ther reduc	ested n the cant ction in
Reportin	g Biol	ogist:			Bur	kett		. ;	Super	visor:		Benr	nett	

Mule De	er Qu	ota R	Recom	meno	dation	Forn	n							
Unit Grou	ıp:		171	-173		<u>-</u>				Date	Prepared:		4/3/2023	
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021	120	360	138	618	271	76	347	33	38	29	28	34	45	3,400
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
Harvest	Result	s												
Year	Arcl Succe			loader ss (%)		egal-Walccess (Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	9%		27	7%	25%	101	44%		36	6%	31	67%	60%	
2021-2022	8%		13	3%	21%	24%	67%		32	2%	33	100%	46%	
2022-2023	10%		17	7%	24%	25%	31%		34	1%	22	73%	57%	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year	YEAR I HUHL I HUHL I HUHL I HUHL I HUHL I DUHL I DUHL I H												Comp Tags	
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	200	20	70	7	280	30	190	15	45	2		175	11	0
2022-2023	240	25	65	6	270	25	180	10	30	2		170	13	0
2023-2024	260	25	60	7	270	20	190	15	30	2		120	18	2
Tag Trend	INC	=	DEC	INC	=	DEC	INC	INC	=	=	=	DEC	INC	INC
encroachir survey yiel Success ra The quota	17 mule ng pinye lded ha ates, ar will rer	e deer pon and d higher de deep de deep de deep de deep de deep de	juniper er fawn pint or g latively	r, and s ratio, v reater similar	enesce vhich c percen , but sl	ent brov an be a tage of ight cha	vse hav attribute harves anges i	ve led to ed to su sted ant n dema	oo poo bstanti lered n and and	r fawn r al mons nule de I succe	ent years. Di ecruitment. soonal mois er have rem ss in weapo in either sex	Our most ture during ained cons n classes	recent spr the 2022 sistent in A has redist	summer. Area 17. ributed
Reportin	g Biol	ogist:			Bur	kett		;	Super	visor:		Benr	nett	

Mule De	er Qu	iota R	ecom	ımeno	dation	Forn	n							
Unit Grou	ıp:		181	-184						Date	Prepared:		3/23/2023	3
Herd Res	sults													
Year		Fall Survey		Total	Spi Sur	ing vey	Total		eason f		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021				0	65	20	85				31	30	42	1,200
2021-2022				0	105	33	138				31	30	42	1,200
2022-2023				0	59	17	76				29	27	42	1,100
Harvest I	Result	s												
Year		nery ss (%)		loader ess (%)		egal-W ccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	22%				29%				43	3%			54	
2021-2022	4%				33%				49	9%			52	
2022-2023	15%		53	3%	40%				44	1%			48	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	rrent	Year)	Tag Q	uota			
Year		nery unt		eloader unt	Early Hu			ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	55	6	15	2	135	9						65	6	
2022-2023	60	6	15	1	150	8						70	6	
2023-2024	35	4	9	1	130	8						40	6	
Tag Trend	DEC	DEC	DEC	=	DEC	=	=	=	=	=	=	DEC	=	=
	st hunt . 44%	buck r	oucks h	arveste	ed were	4 poir					is whithin th statewide av			
Reportin	g Biol	ogist:			Salis	bury		. ;	Super	visor:		Muns	son	

Mule De	er Qu	ıota R	Recom	nmend	dation	Forn	n							
Unit Grou	ıp:		19	92		<u>-</u>				Date	Prepared:		4/1/2023	
Herd Res	sults													
Year		Fall Survey	,	Total		ring vey	Total		eason f observe		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021	22	50	28	100	204	68	272	44	56	39	33	38	45	550
2021-2022	16	86	28	130			0	19	33	27		42	50	520
2022-2023				0	88	25	113				28	50	51	500
Harvest	Result	ts												
Year		hery ess (%)		loader ess (%)		egal-W uccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	24%	32%	19	9%	57%	IVI			31	1%	1	NA	71%	NA
2021-2022	27%	28%	43	3%	62%				47	7%	1	100%	47%	NA
2022-2023	20%	56%	0	%	56%				27	7%	1	100%	55%	NA
Approve		vious hery		and R		mend	,	irrent ALW		Tag Q	uota Antlerless	Junior	NR	
Year	Нι	unt	Ηι	unt	Η̈́ι	unt	Hu	unt	Нι	unt	Hunt	Hunt	Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES	_	_
2021-2022	15	2	10	2	55	4			20	2		25	2	0
2022-2023	15	2	10	1	55	4			20	3		25	2	0
2023-2024	15	1	15	2	55	4	_	_	15 DEC	1	_	25	2	_
Tag Trend	=	DEC	INC	=	=	=	=	=	DEC	DEC	=	=	=	=
comparing	he met the las numbe	rics ind st three ers upv	years	to the p	reviou	s five y	ears. A	reduct	ion in ta	ags wo	nt class has uld be warra leted so nun	inted but D	emand/S	uccess is
Reportin	g Biol	ogist:			Lac	key		<u>.</u>	Super	visor:		Muns	son	

Unit Grou	ıp:		194	-196						Date	Prepared:		4/1/2023	
Herd Res	sults													
Year		Fall Survey		Total	Sur	ring vey	Total	(c	eason F	d)	Spring Ratio (obs)	Mod Buck	Ratio	Pop Est (Sept)
2000 2001	Buck	Doe	Fawn	405	Adult	Fawn	400	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	050
2020-2021	31	124	40	195	425	74	499	25	32	26	17	34	44	850
2021-2022	15	76	16	107	447	0.4	0	20	21	18		31	41	750
2022-2023				0	417	81					19	40	40	750
Harvest I	Result	ts												
Year		hery ss (%)		oader ss (%)		egal-W iccess (Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	25%	62%	40)%	86%				61	1%	0	100%	80%	NA
2021-2022	50%	53%	60)%	89%				63	3%	0	100%	79%	NA
2022-2023	33%	38%	10	0%	85%				65	5%	1	NA	90%	NA
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	irrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt	Early Ηι	ALW ınt		ALW unt		rchery unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	5	2	60	3			18	2		15	3	0
2022-2023	6	2	5	1	35	2			9	2		20	2	
2023-2024	4	1	1	1	35	2			15	1		20	2	
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	DEC	DEC	=	INC	DEC	=
	ation c both m	ontinue etrics s	ince 20)12 con	npared	to the	previou				nd fawn ratio and urban sv			
Reportin	g Biol	ogist:			Lac	key		. ;	Super	visor:		Muns	son	

		_	19	95						Date	Prepared:		4/1/2023	
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		season F		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(55)
2020-2021				0			0							500
2021-2022				0			0							500
2022-2023														250
Harvest I	Result	:S												
Year		nery ss (%)		loader ss (%)		egal-W iccess (Avg. Age		ot or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	50%	_	64	1%	49%	101	_		18	3%	0	NA	59%	NA
2021-2022	25%		0	%	74%				48	3%	0	100%	38%	NA
2022-2023	20%		25	5%	25%				41	1%	1	100%	67%	NA
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	rrent	Year)	Tag Q	uota			
Year		nery ınt		eloader unt	Early Hı	ALW ınt	Mid A	ALW ınt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	5	2	5	2	25	2						10	1	0
2022-2023	5	2	5	1	25	2						10		0
2023-2024	3	1	3	1	15	2						7		
Tag Trend	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	=	DEC	DEC	=
estimates	been r around n effect	nuch va 4,000 on the	feral ho deer p	orses ir opulati	the Vion. The	rginia F e estim	Range. ate has	The su been i	bstantia	al incre	they are me ase over the dingly. A slig	e last few y	ears undo	oubtedly
Reportin	g Riol	ogist:			Lac	key			Super	visor:		Muns	son	

Unit Grou	ıp:		201	-204						Date	Prepared:	;	3/22/2023	3
5 1 5 1.55	· F ·					•				2 0.110	оран оан			
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f		Spring Ratio (obs)	Mod Buck	eled Ratio	Pop Est
	Buck	Doe	Fawn		Adult	Fawn	†	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)
2020-2021				0			0							600
2021-2022				0			0							500
2022-2023				0			0							550
Harvest I	Result	ts												
Year		hery ss (%)		loader ss (%)		egal-W iccess (Avg. Age		Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	13%	11%	50)%	47%				36	6%			83	
2021-2022	33%	50%	60)%	68%				45	5%			75	
2022-2023	0%	60%	40)%	71%				30)%			100	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt		ALW unt		ALW unt		archery unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	2	2	2	2	20	2			5	2		6		
2022-2023	5	2	2	1	20	2			5	2		7		
2023-2024	10	1	1	1	20	1			10	1		6		
Tag Trend	INC	DEC	DEC	=	=	DEC	=	=	INC	DEC	=	DEC	=	=
	nter su	ccess i									it 4 point or l			
Reportin	g Biol	ogist:			Salis	sbury		. ;	Super	visor:		Muns	son	

Unit Grou	p:		202	-208						Date	Prepared:	;	3/23/2023	3
Herd Res	ults													
Year		Fall Survey		Total	Spi Sur	ring vey	Total		season F observed		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(6651)
2020-2021				0			0							
2021-2022				0			0							
2022-2023				0			0							280
Harvest F	Result	:s												
Year	Arch Succe	nery ss (%)	Muzzl Succe	oader ss (%)		egal-W iccess (Avg. Age	4-P Greate		Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021		11%	27	7%	58%	IVI	L		36	6%				, ,
2021-2022		0%	40)%	60%				34	! %				
2022-2023		0%	60)%	69%				23	8%				
Approved	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	irrent	Year)	Tag Q	uota			
Year		nery ınt		eloader unt	Early Hu	ALW ınt		ALW unt	Late Hu	ALW ınt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	7	2	3	2	50	4						25	2	
2022-2023	5	2	5	1	40	2						20	2	
2023-2024	10	1	5	2	40	2						20	2	
Tag Trend	INC	DEC	=	INC	=	=	=	=	=	=	=	=	=	=
Quota Ra 60% overa similar to w	all hunt	er succ		-	_	weapor	n hunt.	The 4	point o	r better	has decrea	sed to 23%	6. Tag quo	otas are
Reporting	g Biol	ogist:			Salis	bury		. ;	Super	visor:		Muns	son	

maic be	CI QU	iota i	CCOII		autioi		••							
Unit Grou	ıp:		20	03		<u>.</u>				Date	Prepared:		3/23/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason l observe		Spring Ratio (obs)	Mod Buck	eled Ratio	Pop Est
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)
2020-2021				0			0							500
2021-2022				0			0							600
2022-2023				0			0							500
Harvest	Result	te												
Tiai vest												NR		Comp
Year		hery ss (%)		loader ess (%)		.egal-W .ccess (Avg. Age		er (%)	Total Antlerless Harvest	Guided Success	Junior Success (%)	Tag Success
	E	L			E	М	L			201		(%)	, ,	(%)
2020-2021	8%	4%			42%					2%			58	
2021-2022	38%	16%			65%					9%			75	
2022-2023	17%	31			62%				56	6%			56	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cı	ırrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt		ALW		ALW unt		archery unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	25	3			35	4			15	3		20	2	
2022-2023	15	2			30	2			15	2		20	2	
2023-2024	15	2			25	2			15	2		15	2	
Tag Trend	=	=	=	=	DEC	=	=	=	=	=	=	DEC	=	=
Quota Ra Used a po better. Re	st hunt	buck r								any leg	al weapon h	unt with 56	6% being (4 point or
Reportin	g Biol	ogist:			Salis	sbury			Super	visor:		Muns	son	

Unit Grou	ıp:		211	-213						Date	Prepared:	;	3/29/2023	3
Herd Res	sults													
Year		Fall Survey		Total	Spi Sur	•	Total		eason f		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Gopt)
2020-2021				0			0							
2021-2022				0			0							
2022-2023				0			0							
Harvest I	Result	ts												
Year		nery ss (%)		loader ess (%)		egal-W iccess (Avg. Age		t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	15%		50)%	64%				46	6%		100%	75%	
2021-2022	42%		57	7%	43%				35	5%	4	50%	95%	
2022-2023	0%		0	%	22%				13	3%		0%	18%	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	irrent	Year)	Tag Q	uota			
Year		nery unt		eloader unt	Early Hu			ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	8	2	50	5						20	3	
2022-2023	10	2	6	2	20	5						15	3	
2023-2024	3	1	3	1	15	2						10	2	
Tag Trend	DEC	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	DEC	DEC	=
sizes. Har succumbe	21 mule vest me	e deer letrics in	n Area 2 onditio	21 indic ns in th	ate a re is Area	eductio . Histo	n in tag ric spri	gs is wa ngs ha	rranted ve gone	d. Larg e dry, b	o low densiti e quantities ut the moist in the overa	of pinyon ure receive	pine have	-
Reportin	g Biol	ogist:			Bur	kett		. ;	Super	visor:		Benr	nett	

Unit Grou	ıp:		221	-223		_				Date	Prepared:	(3/30/2023	3
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason F observed		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(
2020-2021	120	549	206	875	664	137	801	22	38	31	21	37	46	3,800
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
Harvest I	Result	ts												
Year		hery ss (%)		oader ss (%)	-	egal-Wolcess (-	Avg. Age	4-P Greate	t or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	24%		47	7%	36%	41%	54%		43	3%	34	47%	60%	25%
2021-2022	14%		54	I%	31%	22%	65%		39	9%	12	67%	38%	88%
2022-2023	19%			5%	25%	28%	43%			' %	9	50%	50%	0%
Approve		vious	Year)	and R				rrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt	•	ALW	Mid A	ALW unt	Late Hu	ALW ınt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	65	6	15	2	220	15	130	8	20	2		170	18	8
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
Tag Trend	DEC	DEC	DEC	DEC	DEC	INC	DEC	=	DEC	=	=	DEC	DEC	INC
Quota Ra This mule lowered ac weapon hu	ationa deer po dult and unters h	le opulation d fawn s nas dec estima	on has survival creased te of mi	underg I, due to I in reco ule dee	one a so sever ent year, hunt	significa e drouç rs over er succ	ant decl ght con the sa	ine ove ditions me tim	er the la that ha eframe	ist threverse affe	e years. The cted the are population o the Departm	decline h a. Succes decline. Du	as been d s of any-le ue to the d	riven by gal- ecrease
Reportin	g Biol	ogist:			Sha	anks			Super	visor:		Benr	nett	

Unit Grou	ıp:		23	31			· -			Date	Prepared:		4/3/2023	
Herd Res	culte													
Year		Fall Survey		Total		vey	Total	(0	eason l	d)	Spring Ratio (obs)	Mod Buck	Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	
2020-2021	144	527	200	871	912	173	1,085	27	38	30	19	36	46	3,300
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
Harvest	Result	s												
Year		nery ss (%)		loader ss (%)	-	egal-W ccess (-	Avg. Age		ot or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	27%		67	7%	66%		_		49	9%	9	17%	79%	54%
2021-2022	18%		47	7%	63%				50)%	8	43%	85%	54%
2022-2023	25%		25	5%	71%				67	7%	2	50%	81%	46%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	irrent	Year)	Tag Q	uota			
Year		nery unt		eloader unt	Early Ηι	ALW int		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	40	4	20	2	140	6						70	9	65
2022-2023	8	2	4	2	45	2						20	6	42
2023-2024	15	1	5	1	60	4						20	3	29
Tag Trend	INC	DEC	INC	DEC	INC	INC	=	=	=	=	=	=	DEC	DEC
and water	deer po	opulatio	ading to	o low fa	ıwn rec	ruitmer	nt and r	educed	d adult	surviva	re drought col. The obser	ved buck r	atio has b	een low
relative to harvest ha observed I years. Sur	relative to the modeled buck ratio and the management objective of 30 bucks:100 does. Hunter success and quality of harvest has remained relatively stable over the period of the decline. The 2023 post season survey saw a higher observed buck ratio. It is important to note that the compensation tag quota has been reduced the last three consecutive years. Survey, modeling, and harvest metrics warrant a slight increase in quotas. Reporting Biologist: Shanks Supervisor: Bennett													
Reportin	g Biol	ogist:			Sha	ınks		. ;	Super	visor:		Benr	nett	

	J. 45					•	· -							
Unit Grou	ıp:		241	-245		•				Date	Prepared:		4/3/2023	1
Herd Res	sults													
Year		Fall Survey		Total		ring vey	Total		eason f		Spring Ratio (obs)	Mod Buck	eled Ratio	Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)
2020-2021	53	177	83	313	325	74	399	30	47	36	23	43	52	1,300
2021-2022				0			0					37	50	1,200
2022-2023	27	146	81	254			0	18	55	47		36	48	1,000
Harvest I	Result	ts												
Year	Arc	hery ss (%)		loader ess (%)		egal-W iccess (Avg. Age		or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	50%		75	5%	61%				75	5%	0	75%	74%	56%
2021-2022	36%		29	9%	47%				61	1%	3	0	64%	40%
2022-2023	25%		67	7%	48%				76	6%	1	50	55%	50%
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	ırrent	Year)	Tag Q	uota	Ī	T	T
Year		hery unt		eloader unt		ALW unt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	7	2	120	6						45	6	27
2022-2023	4	2	3	2	45	2						20	5	12
2023-2024	5	1	3	1	45	2						15	3	10
Tag Trend	INC	DEC	=	DEC	=	=	=	=	=	=	=	DEC	DEC	DEC
fawn recru and lower The reduc	deer politment. adult sed quo	opulatio . This d urvival. tas sav	lecline l Tag qu v the ha	has bee uotas w arvest s	en drive ere sul success	en by so bstantia s stabili	evere d ally cut ze and	rought in 2022 the qua	condition of in resplaying in the condition in the condit	ons, wh ponse t etrics 4-	nt moisture nich have ca to population pt or better quota to las	used low f trends ar increase w	awn recru d harvest	itment metrics.
Reportin	g Biol	ogist:			Sha	anks		;	Super	visor:		Benr	nett	

Unit Grou	ıp:		251	-254						Date	Prepared:		3/29/2023	3
Herd Res	sulte													
Year	Juito	Fall Survey		Total		ring vey	Total		eason f		Spring Ratio (obs)	Mod Buck		Pop Est (Sept)
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)
2020-2021				0			0							
2021-2022				0			0							
2022-2023				0			0							
Harvest I	Result	ts												
Year		hery ss (%)		loader ess (%)		egal-W iccess (Avg. Age		er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	33%		40)%	27%		_		80)%		0%	50%	
2021-2022	14%		0	%	4%				29	9%	1		46%	
2022-2023	0%		0	%	29%				67	7%	1	0%	50%	
Approve	d (Pre	vious	Year)	and R	ecom	mend	ed (Cu	rrent	Year)	Tag Q	uota			
Year		hery unt		eloader unt	Early Hu	ALW ınt		ALW unt		ALW unt	Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	8	2	5	2	30	5						20		
2022-2023	5	2	2	2	10	2						5		
2023-2024	5	1	2	1	10	1						5	2	
Tag Trend	=	DEC	=	DEC	=	DEC	=	=	=	=	=	=	INC	=
	is not n er with	nodeled the dec	rease i	in quota	a. The 4	1-point	or grea	iter per	centag	e rose	survey. Any to 67%. Bec o last year.			
Reportin	g Biol	ogist:			Bur	kett			Super	visor:		Benr	nett	

Unit Group: 261-268								Date Prepared: 4/1/2023						
Herd Res	eulte													
Year	Fall Survey			Total	Spring Survey		Total	Postseason Ratios (observed)			Spring Ratio (obs)	Modeled Buck Ratio		Pop Est
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn F:Ad		F:Ad	Postseas	Preseas	(Sept)
2020-2021				-			-							
2021-2022				-			-							
2022-2023				-			-							
Harvest I	Result	s												
Year	Archery		Muzzloader Success (%)		Any-Legal-We Success (Avg. Age	4-Pt or Greater (%)		Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)
2020-2021	75%		75	5%	70%				34%			100%	81%	
2021-2022	38%		50)%	47%				28%			100%	45%	
2022-2023	22%		0%	6	33%				33%			0%	44%	
Approve	Approved (Previous Year) and Recommended (Current Year) Tag Quota													
Year	Archery Hunt		Muzzleloadei Hunt		Early ALW Hunt			ALW unt	Late ALW Hunt		Antlerless Hunt	Junior Hunt	NR Guided Hunt	Comp Tags
	RES	NR	RES	NR	RES	NR	RES	NR	RES	NR	RES	RES		
2021-2022	15	2	20	2	75	5						35	3	
2022-2023	10	2	10	2	60	3						30	3	
2023-2024	8	2	8	2	40	3						20	3	
Tag Trend	DEC	=	DEC	=	DEC	=	=	=	=	=	=	DEC	=	=
Quota Rationale No aerial surveys for mule deer are conducted in Area 26 due to low density and difficulty to survey. Standard survey methods do not yield a sufficient sample size to extrapolate population estimates. All harvest success rates have declined since 2020 and percentage of 4-point or greater remains low. The Department recommends a reduction in quota.														
Reporting Biologist:					Wo	ood		Supervisor: Bennett						

maic Beer Quota Recommendation Form															
Unit Group: 271-272										Date	Prepared:	3/30/2023			
Herd Res	sults														
Year	Fall Year Survey			Total	Spring Survey		Total		eason Ratios bserved)		Spring Ratio (obs)	Modeled Buck Ratio		Pop Est	
	Buck	Doe	Fawn		Adult	Fawn	-	Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(Sept)	
2020-2021				0			0								
2021-2022				0			0								
2022-2023				0			0								
Harvest Results															
Year	Archery			Muzzloader Success (%)		Any-Legal-W Success (Pt or er (%)	Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)	
2020-2021	13%		11	1%	43%				55%		0	100%	60%	100%	
2021-2022	25%		10)%	43%				47%		0	100%	56%	100%	
2022-2023	13%		33%		25%				73%		0	0%	44%	100%	
Approve	Approved (Previous Year) and Recommended (Current Year) Tag Quota														
Year	Archery Year 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			
2021-2022	10	2	10	2	25	2						10	1	1	
2022-2023	10	2	10	2	25	2						10	1	1	
2023-2024	8	1	8	1	15	2						8	1	1	
Tag Trend	DEC	DEC	DEC	DEC	DEC	=	=	=	=	=	=	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 2022. Quality of harvest, measured by percentage of harvested bucks with 4 or more points, was higher than average despite the low hunter success. The Department recommends a reduction in quotas.															
Reporting Biologist:						nks		. :	Super	visor:		Bennett			

Unit Group:			29	91		_				Date	Prepared:	4/1/2023			
Herd Res	sults														
Year		Fall Survey		Total	Spring Survey		Total		eason F		Spring Ratio (obs)	Modeled Buck Ratio		Pop Est (Sept)	
	Buck	Doe	Fawn		Adult	Fawn		Buck	Fawn	F:Ad	F:Ad	Postseas	Preseas	(00)	
2020-2021				0			0							600	
2021-2022				0			0							600	
2022-2023														850	
Harvest I	Harvest Results														
Year		nery ss (%)	Muzzloader Success (%)		Any-Legal-W Success (%)	Avg. Age	4-Pt or Greater (%)		Total Antlerless Harvest	NR Guided Success (%)	Junior Success (%)	Comp Tag Success (%)	
2020-2021	14%		37	7%	E M L 71%		<u> </u>		50%		0	100%	78%	NA NA	
2021-2022	36%)%	78%)%	1	100%	74%	NA	
2022-2023	30%			7%	80%					5%	2	100%	76%	NA	
	0070		<u> </u>	,,	0070						_	10070	1070	101	
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			
2021-2022	15	2	5	2	45	4						20	2	0	
2022-2023	15	2	3	1	55	4						25	2	0	
2023-2024	15	1	4	1	65	5						25			
Tag Trend	=	DEC	DEC	DEC	INC	INC	=	=	=	=	=	INC	DEC	=	
Quota Ra															
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 can now be increased.															
Reporting Biologist:					Lac	key		;	Supervisor:			Munson			