

Pronghorn Quota Recommendation Form

Unit Group: 011

Date Prepared: 4/13/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019		92	228	88	408	40	39	1,000	45
2019-2020		68	168	38	274	40	23	900	42
2020-2021		65	221	49	335	29	22	700	38

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	36%	50%	50%	n/a	70%	100%			0	N/A	22%
2019	30%	100%	50%	n/a	69%	43%			0	N/A	24%
2020	54%	50%	20%	n/a	67%	86%			0	N/A	34%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	20	2	2	0	70	4			0	0	0
2020	15	2	5	0	65	7					
2021	8	1	2		45	5					
Tag Trend	DEC	=	DEC	=	DEC	DEC	=	=	=	=	=

Quota Rationale

2019 recruitment rate of 23 fawns per 100 does, and 22:100 observed in 2020, is the lowest observed in this hunt unit since 2000. The 011 population estimate took another step back this year due to two consecutive years of lower recruitment. This downward trend follows several years of above average recruitment and increasing trends for this population of pronghorn.

Reporting Biologist: _____

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 012-014

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019		176	375	138	689	47	37	2,000	34
2019-2020		96	225	69	428	43	31	1,900	34
2020-2021		73	280	87	440	26	31	1,900	32

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	58%	100%	0%	n/a	81%	85%			0	100%	30%
2019	18%	50%	14%	n/a	68%	64%			0	100%	22%
2020	30%	67%	60%	n/a	65%	73%			0	100%	24%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	35	4	3	n/a	140	15			0	1	0
2019	25	3	8	n/a	150	15			0	1	0
2020	25	3	8	1	150	20			0	1	0
Tag Trend	Stable	Stable	Stable	Stable	Stable	Stable	=	=	=	=	=

Quota Rationale

The 31 fawns per 100 does recruitment rate has been consistent the last two surveys and will translate into a stable trend for this population of pronghorn in 2021. This follows several years of increasing trends due to above average recruitment.

Reporting Biologist: _____

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 015

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019		143	397	147	689	36	37	1,000	22
2019-2020		71	257	100	428	28	39	900	21
2020-2021		78	241	103	422	32	43	1,050	21

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	23%	0%	25%	N/A	76%	100%			0	100%	41%
2019	13%	0%	25%	N/A	69%	75%			0	100%	31%
2020	21%	50%	11%	N/A	56%	83%			0	100%	33%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	2	4	0	65	7			0	1	0
2020	20	2	15	0	75	6			0	0	0
2021	25	3	10		70	8					
Tag Trend	INC	INC	DEC	=	DEC	DEC	=	=	=	stable	=

Quota Rationale

Another above average recruitment year will allow for a continued increasing trend in this population of pronghorn antelope. Fawn ratio of 43/100 does was observed this year for hunt unit 015. Quotas recommendations are expected to be higher for this hunt unit in 2021. 33% of bucks harvested were reported as having a 15 inch or greater horn.

Reporting Biologist: _____

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 021-022

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019		25	82	36	143	30	44	650	33
2019-2020		0	0	0	0	0	0	640	29
2020-2021		6	19	6	31	28	32	600	29

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	50%	0%	67%	n/a	89%	100%			0	100%	43%
2019	100%	n/a	25%	n/a	88%	50%			0	N/A	45%
2020	33%	100%	50%	n/a	88%	100%			1	100%	40%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	3	1	4	n/a	45	5			0	0	0
2020	5	1	5	n/a	40	4			0	1	0
2021	5	1	2	n/a	35	4			0		0
Tag Trend	stable	stable	DEC	=	DEC	stable	=	=	=	INC	=

Quota Rationale

Very small sample size on surveys. This population is showing some stability while faced with many issues. Fires, development, and horse numbers are increasing across this unit group and continue to have impacts on habitat. A conservative quota will allow for older ageclass to be harvested.

Reporting Biologist: _____

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 031

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	1	1	7	5	14	29	71	1,293	25	17
2019-2020	15	43	178	54	290	33	30	1,271	29	19
2020-2021	0	3	12	7	22	25	58	1,277	31	22

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	25%	0%	N/A	N/A	50%	53%			60	50%	34%
2019	25%	0%	N/A	N/A	47%	47%			35	80%	21%
2020	14%	50%	N/A	N/A	47%	50%			23	0%	9%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	10	1	0	0	130	15			65	5	0
2020	20	2	0	0	130	15			40	1	0
2021	20	2	3	1	110	15			10		0
Tag Trend	INC	INC	INC	INC	DEC	=	=	=	DEC	DEC	=

Quota Rationale

Doe quota based on 1% of doe population was 3% in 2020. This population continues to trend downward

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 032, 034

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	2	6	74	19	101	11	26	1,132	25	14
2019-2020	7	20	191	49	267	14	26	1,101	28	19
2020-2021	6	27	107	42	182	31	39	1,122	32	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	23%	67%	N/A	N/A	59%	56%			25	0%	20%
2019	15%	0%	N/A	N/A	47%	44%			7	83%	14%
2020	5%	40%	N/A	N/A	37%	57%			12	100%	21%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	25	2	0	0	85	10			25	6	0
2020	30	3	0	0	70	8			30	4	0
2021	30	3	2	0	50	6			15		0
Tag Trend	INC	=	INC	=	DEC	DEC	=	=	DEC	DEC	=

Quota Rationale

There is a slight reduction in tag numbers for this unit. This herd is still depress despite the observed fawn production. The model used for this unit is combined with unit 035. With the amount of moisture that was available during the survey period animals were scattered and in small groups. 1% Doe Harvest

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 033

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019		63	212	79	354	30	37	1,270	37
2019-2020		43	156	37	236	28	24	1,200	38
2020-2021		109	384	124	617	28	32	1,200	

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	33%	100%	33%	n/a	85%	100%	76%	67%	n/a	N/A	46%
2019	25%	100%	25%	n/a	66%	67%	75%	67%	n/a	N/A	37%
2020	80%	0%	40%	n/a	68%	75%	64%	50%	n/a	N/A	23%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	6	1	4	n/a	35	3	35	3	0	0	0
2019	7	1	5	n/a	35	4	35	4	0	0	0
2020	7	1	3	n/a	30	4	30	4	0	0	0
Tag Trend	stable	stable	DEC	=	DEC	stable	DEC	stable	=	=	=

Quota Rationale

15" or better bucks have significantly decreased over the past few years as well as the success rate. The success rate is lower but still an acceptable rate consistent with the statewide average.

Pronghorn Quota Recommendation Form

Unit Group: 035

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	4	6	73	15	98	14	21	558	25	14
2019-2020	3	44	125	41	213	38	33	543	28	19
2020-2021	6	27	107	42	182	31	39	553	32	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	50%	100%	N/A	N/A	65%	75%			10	0%	50%
2019	33%	100%	N/A	N/A	70%	100%			6	100%	22%
2020	33%	100%	N/A	N/A	74%	50%			12	100%	53%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	5	1	0	0	35	4			10	5	0
2020	4	1	0	0	25	3			15	5	0
2021	2	1	1	0	20	2			9		0
Tag Trend	DEC	=	INC	=	DEC	DEC	=	=	DEC	DEC	=

Quota Rationale

This unit is modeled with units 032 and 034. Tag quotas are split with 2/3 going to 032, 034 and 1/3 going to 035. 2% Doe Harvest

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 041, 042

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	10	25	98	36	169	36	37	2,012	36	27
2019-2020	27	54	259	91	431	31	35	1,696	30	20
2020-2021	18	50	195	38	301	35	19	1,406	31	21

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	50%	DNH			77%	100%	81%	100%	45	100%	25%
2019	44%	0%			74%	75%	72%	86%	29	100%	32%
2020	64%	0%			85%	67%	84%	100%	15	100%	25%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	1			70	8	70	8	40	1	
2020	15	1			55	6	55	6	25	1	
2021	10	1	3		30	3	30	3	10		
Tag Trend	DEC	=	INC	=	DEC	DEC	DEC	DEC	DEC	DEC	=

Quota Rationale

2021 population estimate is 1,400, 18% lower than last year. Herd has declined since 2019 (2,000 antelope). Fawn ratios have declined since 2019. 2020 fawn ratio of 19 is lowest observed since 1992 (3 fawns: 100 does). Doe harvest is for hunter opportunity. Due to continued decline in fawn ratios recommend 1% doe harvest and post-season buck ratio objective of 25, which falls in the middle of Harvest Guidelines (20-30 bucks: 100 does). NEW resident only muzzleloader horns longer than ears hunt for 2021. Also, past survey & field trip data indicate a decline in antelope observations in all areas of Units 041, 042, which supports this reduction.

Reporting Biologist: Neill

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 043-046

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	14	96	208	86	404	53	41	802	37	25
2019-2020	25	190	419	155	789	51	37	1,164	43	34
2020-2021	20	125	349	127	621	42	36	1,401	40	27

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	29%				94%	100%				80%	33%
2019	9%	0%			84%	100%				75%	18%
2020	37%	25%			88%	100%				100%	27%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	20	2			70	7				4	
2020	40	4			110	15				4	
2021	50	5	5	1	110	15			35		
Tag Trend	INC	INC	INC	INC	INC	INC	=	=	INC	DEC	=

Quota Rationale

2021 population estimate is 1,400, 18% increase from last year. NEW horns shorter than ears hunt (doe) and muzzleloader resident and non-resident horns longer than ears hunts (buck). Doe harvest is for opportunity as unit group can support growth. Recommend 3% doe harvest and post-season buck ratio objective of 25 bucks: 100 does, which falls in the middle of Harvest Guidelines (20-30 bucks: 100 does).

Reporting Biologist: Neill

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 051

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	2	6	26	13	47	31	50	737	30	17
2019-2020	10	60	173	43	286	40	25	716	39	24
2020-2021	3	10	20	8	41	65	40	656	31	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	30%	0%	N/A	N/A	64%	100%			0	0%	44%
2019	10%	0%	N/A	N/A	68%	75%			0	100%	35%
2020	21%	20%	N/A	N/A	84%	83%			0	100%	29%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	1	0	0	35	4			0	4	0
2020	35	4	0	0	50	4			0	5	0
2021	35	4	2	0	50	5			0		0
Tag Trend	INC	INC	INC	=	=	DEC	=	=	=	DEC	=

Quota Rationale

This population took a slight drop. Fawn and buck ratios remain strong at this time. Tag numbers will remain the same.

Reporting Biologist: Partee

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 181-184

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	18	53	172	47	290	41	27	849	32	18
2019-2020	14	64	173	66	317	45	38	852	28	17
2020-2021	7	39	131	35	212	35	27	792	29	17

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	32%	0%			86%	100%			24		36%
2019	33%	100%			92%	100%			23		40%
2020	50%	100%			95%	75%			22		22%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	2			50	6			25		
2020	10	1			40	4			30		
2021	8	1	2		45	5			20		
Tag Trend	DEC	DEC	INC	=	DEC	DEC	=	=	DEC	=	=

Quota Rationale

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 202, 204

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	5	21	50	14	90	52	28	107	37	25
2019-2020					0	--	--	106	35	26
2020-2021	5	14	43	12	74	44	28	101	33	28

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018					100%	DNH					100%
2019											50%
2020					44%	100%					0%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019					7	1					
2020					7	1					
2021			1		10	1					
Tag Trend	=	=	INC	=	INC	=	=	=	=	=	=

Quota Rationale

Interstate hunt for antelope in October. Population continues to struggle with low fawn production. Similar tag quotas are suggested.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 203, 291

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2018	8	14	33	13	68	67	39	90	42	26
2019-2020	9	15	23	10	57	104	43	89	36	24
2020-2021	9	15	42	13	79	57	31	89	38	28

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	DNH				100%						0%
2019	50%				75%						14%
2020	0%				75%						33%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	2				8						
2020	2				8						
2021	2		1		15						
Tag Trend	INC	=	INC	=	INC	=	=	=	=	=	=

Quota Rationale

Lower population of antelope would like to keep it about the same. Antelope are located in a few key spots. Hunter congestion could be an issue with increased tags.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 205 - 208

Date Prepared: 2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019					0	--	--	294	33	20
2019-2020	3	11	48	24	86	29	50	312	33	20
2020-2021	5	10	63	15	93	24	24	284	25	12

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	33%	0%			92%	67%					21%
2019	50%	0%			96%	100%					21%
2020	40%	100%			93%	100%					26%

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	10	1			20	2					
2020	10	1			20	2					
2021	5	1	2		20	2					
Tag Trend	DEC	=	INC	=	DEC	DEC	=	=	=	=	=

Quota Rationale

Buck ratio is low in this unit. Continue to suggest with lower harvest.

Reporting Biologist: Salisbury

Supervisor: Munson

Pronghorn Quota Recommendation Form

Unit Group: 251

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Obs)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	12	33	127	37	209	35	29	370	48	35
2019-2020	12	34	169	65	280	27	38	380	40	32
2020-2021	19	52	152	32	255	47	21	340	38	23

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2018-2019	100		100					52
2019-2020	0		91				100	50
2020-2021	80		92				100	50

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	RES/NR	
2018-2019	2				25	3					
2019-2020	2				25	3				10	
2020-2021	5				25	3				5	
2021-2022	5		5		25	3				12	
Tag Trend	=	=	=	=	=	=	=	=	=	INC	=

Quota Rationale

The Unit 251 antelope population is currently relatively stable to slightly decreasing due to a reduction in fawn recruitment. These antelope use agricultural fields during dry periods. This has helped ease the decrease in fawn to doe ratios that are seen in adjacent units. A muzzleloader hunt has been introduced to this Unit. Due to survey, modeling, and harvest metrics, we are recommending a quota similar to last year.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group 115,231,242

Date Prepared: 3/26/2020

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Modeled)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	10	47	115	40	212	50	35	500	39	38
2019-2020	14	19	57	23	113	58	40	500	37	33
2019-2020					0	--	--	500	31	26

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2018-2019	45	67	80				100	24
2019-2020	44	78	82				100	30
2020-2021	55	77	89				100	29

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	RES/NR	
2018-2019	8	1	3		40	4					
2019-2020	12	1	3		40	4				2	
2020-2021	15	2	5		45	5				2	
2021-2022	10	1	5		45	5				2	
Tag Trend	Inc	Inc	Inc		Inc	Inc	=	=	=	=	=

Quota Rationale

Harvest objective for this unit is a ratio of 20-30 adult Bucks to 100 Does. The herd remained stable between 2018-2019 and 2019-2020, but the ratio remains above the unit objective. No surveys were conducted this year. The modeled adult buck to doe ratio fell to 26 adult bucks to 100 does post-season, which is within the objective. Hunter success rates remain high, indicating an adequate number of bucks are available for harvest. I recommend no change in quota.

Reporting Biologist: Sallee

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group 161-162

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Obs)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	20	58	153	41	272	51	27	450	48	36
2019-2020	6	28	79	19	132	43	24	450	43	33
2020-2021	6	18	71	21	116	34	30	400	35	25

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2018-2019	60		89				100	21
2019-2020	0		83				100	40
2020-2021	44		90				100	49

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears		Land Owner Comp Tags		Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES		RES/NR		
2019-2020	4				45	5					2		
2020-2021	10	1			45	5					2		
2021-2022	10	1	2		40	5					6		
Tag Trend	INC	INC	INC	=	DEC	=	=	=	=	=	INC	=	

Quota Rationale

A muzzleloader hunt has been introduced to this Unit. Fawn ratios in units 161-162 do not reflect depressed ratios of adjacent units, primarily due to the utilization of agricultural lands. Based off recruitment, this population is stable to slightly decreasing. A slight reduction of ALW tags is occurring because of lower modeled and observed buck ratios and the redistribution of tags into the muzzleloader season.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 171-173

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Obs)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	11	31	101	27	170	42	27	380	51	38
2019-2020	4	16	73	18	111	27	25	360	44	33
2020-2021	13	37	205	51	306	24	25	380	39	27

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2018-2019	75		91					35
2019-2020	40		97			94		31
2020-2021	60		88			100		33

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears		Land Owner Comp Tags		Emergency Doe Hunt	
	RES	NR	RES		RES	NR	RES	NR	RES		RES/NR			
2019-2020	7	1			30	3					12			
2020-2021	5	1			25	3								
2021-2022	5	1	5		30	5					3			
Tag Trend	DEC	=	INC	=	=	INC	=	=	=	=	DEC	=	=	=

Quota Rationale

A muzzleloader hunt has been introduced in this unit group. Many indications in recent years have pointed to an underestimation of this population. Adjustments to the population model were made this year based off survey sample size and harvest which increased the estimated population size. Although, drought conditions continue to affect these antelope, sustained reduced fawn to doe ratios in 2020 has this population slightly decreasing after the model adjustments. Although we observed poor fawn recruitment, the larger sample size of antelope on survey and modeling efforts warrant a slight increase in quotas among weapon classes.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 211-213

Date Prepared: 3/31/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Obs)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	3	4	22	8	37	32	36	110	46	38
2019-2020	1	8	38	10	57	24	26	110	45	36
2020-2021	0	0	0	0	0	#DIV/0!	#DIV/0!	110	40	32

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2018-2019	100		63					0
2019-2020	0		75					17
2020-2021	100		88					13

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears		Land Owner Comp Tags		Emergency Doe Hunt	
	RES	NR	RES		RES	NR	RES	NR	RES		RES/NR			
2019-2020	1				8									
2020-2021	1				8									
2021-2022	1		1		10									
Tag Trend	=	=	INC	=	INC	=	=	=	=	=	=	=	=	=

Quota Rationale

No post-season antelope composition survey was conducted in Units 211-213 in 2020. A muzzleloader hunt was added to this unit group. This population has been expanding into habitats previously unused by antelope, but drought conditions may have resulted in slightly depressed fawn recruitment this past year. Due to expansion of antelope in this unit, and higher observed and modeled buck ratios, the department recommends a modest increase in quotas compared to last year.

Reporting Biologist: Burkett

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group 221-223, 241

Date Prepared: 3/26/2020

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Modeled)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2017-2018	34	78	279	87	478	40	31	450	34	31
2018-2019	10	15	46	21	92	54	46	450	34	33
2019-2020					0	--	--	400	31	29

Harvest Results

Year	Archery Success (%)	Muzzleloader Success (%)	Any Legal Weapon Success (%)		Horns Shorter Than Ears Success (%)	Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
			E	L				
2017-2018	27	89	79				100	23
2018-2019	31	64	71				100	14
2019-2020	27	50	87				100	26

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES		RES	NR	RES	NR	RES	RES/NR	
2018-2018	6		4		35	3				1	
2019-2020	8		5		40	4				1	
2020-2021	15		5		45	4				1	
2021-2022	10		5		45	5				1	
Tag Trend	INC	=	INC	=	INC	INC	=	=	=	=	=

Quota Rationale

Harvest objective for this unit is 20-30 adult bucks:100 does. No survey was conducted this year. The observed buck to doe ratio in the previous two surveys was at the upper end of the unit objective. Population models suggest the population decreased this year, but the modeled adult buck to doe ratio remains high at 29 adult bucks:100 does post-season. The population decreased, but an observed and modeled buck to doe ratio at or above the unit objective suggests an adequate number of bucks are available for harvest. The department recommends no change in quota from last year.

Reporting Biologist: Sallee

Supervisor: Bennett

Pronghorn Quota Recommendation Form

Unit Group: 072,074,075

Date Prepared: 4/8/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	43	71	342	73	529	33	21	1,100	32	21
2019-2020	18	56	228	71	373	32	31	1,100	34	26
2020-2021	8	30	169	76	283	22	45	1,100	31	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	27	33			89	86			27	100	21
2019	11	0			71	71			22	75	25
2020	7	0			86	100			20		25

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	25	3			65	7			40		
2020	20	2			45	5			45		
2021	25	3	2		45	5			55		
Tag Trend	INC	INC	INC	=	=	=	=	=	INC	=	=

Quota Rationale

This herd is stable. Fawn ratios have been increasing the past 3 years. Because of the stable buck ratios, Horns Longer quotas will remain similar to last year. Archery increased slightly due to a drop in success the previous year. This will be the first year muzzleloader tags will be offered in this unit.

Reporting Biologist: Huebner

Supervisor: Donham

Pronghorn Quota Recommendation Form

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

Date Prepared: _____

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	55	103	378	118	654	42	31	1,400	47	31
2019-2020	54	159	489	234	936	44	48	1,400	44	31
2020-2021	69	124	526	315	1,034	37	60	1,500	36	22

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	22	0			81	85			119		33
2019	13	33			77	92			131		27
2020	27	40			84	86			91		22

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	40	4			140	15			170		
2020	60	6			120	15			170	7	
2021	35	4	3	1	80	8			160	4	
Tag Trend	DEC	DEC	INC	INC	DEC	DEC	=	=	DEC	DEC	=

Quota Rationale

Depressed fawn production and recruitment in 2018-2019 resulted in comparatively fewer 2 year old bucks on the landscape during the 2020 season than has been the case in recent years. Following the 2020 season, the modeled post-season 2 Yr + buck ratio came in at 22 bucks:100 does, which is at the bottom end of the management objective of 20-30 bucks:100 does. The reduced quota recommendation for 2021 is expected to result in a post-season 2 Yr + buck ratio near the midrange of management objectives. Horns Shorter tag quota recommendations are designed to maintain this population near its current population level of about 1,500 adult animals. This management strategy is based on constraints of compromised winter range and wildlife/urban interface conflicts (agriculture, Interstate 80).

Reporting Biologist: Allen

Supervisor: Donham

Pronghorn Quota Recommendation Form

Unit Group: 065, 142, 144

Date Prepared: 4/7/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		75	148	54	277	51	36	900	35	21
2019-2020		73	219	61	353	33	28	850	35	20
2020-2021		68	290	75	433	23	26	700	30	18

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	38	0	75		84	50			46	100	25
2019	33	0	71		75	78			40	100	26
2020	27	100	0		78	86			30	100	27

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	2	7		75	10			45	4	
2020	15	2	4		70	8			40		
2021	5	1	1		20	2			5	1	
Tag Trend	DEC	DEC	DEC	=	DEC	DEC	=	=	DEC	INC	=

Quota Rationale

Three years of suppressed fawn recruitment is catching up to this herd. Quotas are reflective of a declining population with anticipated declines again next year.

Reporting Biologist: Jeffress

Supervisor: Tom Donham

Pronghorn Quota Recommendation Form

Unit Group: 066

Date Prepared: _____

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)
	Yr Bucks	Bucks	Does	Fawns					
2018-2019	n/a	n/a	n/a	n/a	0	#VALUE!	#VALUE!	400	n/a
2019-2020	n/a	n/a	n/a	n/a	0	#VALUE!	#VALUE!	400	n/a
2020-2021	n/a	n/a	n/a	n/a	0	#VALUE!	#VALUE!	400	n/a

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	29				72	100			8		40
2019	13				75	50			9		33
2020	40				74	75			10		10

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	10	0			35	4			15		
2020	10	0			35	4			15		
2021	5	0	3	0	25	3			10		
Tag Trend	DEC	=	INC	=	DEC	DEC		=	DEC	=	=

Quota Rationale

The percentage of bucks in the harvest with Horns 15 inches or Better has decreased for 2 consecutive years and is the lowest it has been in 5+ years. In addition, Unit 066 experienced the same environmental conditions in 2018-2019 as surrounding areas, which is expected to have impacted fawn production and recruitment in this herd as well. Biologists believe these two factors indicate a reduction in tag quotas similar to the reduction in surrounding units is appropriate in Unit 066 for 2021.

Reporting Biologist: Allen

Supervisor: Donham

Pronghorn Quota Recommendation Form

Unit Group: 067, 068

Date Prepared: _____

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		264	551	192	1,007	48	35	1,200	50	37
2019-2020		111	352	108	571	32	31	1,100	44	30
2020-2021		132	401	162	695	33	40	1,100	39	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	8	0			76	83			68		37
2019	17	67			81	64			84	88	34
2020	16	44			86	75			38	100	47

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	35	4			120	15			130		
2020	55	6			100	10			90	1	
2021	35	4	3	1	60	7			85	3	
Tag Trend	DEC	DEC	INC	INC	DEC	DEC	=	=	DEC	INC	=

Quota Rationale

Depressed fawn production and recruitment in 2019-2020 is expected to result in comparatively fewer 2 year old bucks on the landscape during the 2021 season than has been the case in recent years. Following the 2020 season, the modeled post-season 2 Yr + buck ratio came in at 24 bucks:100 does, which is near the middle of the current management objective of 20-30 bucks:100 does. Due to the lower than normal number of bucks entering the 2 year old class in 2021, a reduction in Horns Longer quotas is appropriate to maintain the post-season 2 Yr + buck ratio near the midrange of management objectives. Horns Shorter tag quota recommendations are designed to maintain this population near its current population level of about 1,000 adult animals. This management strategy is based on constraints of compromised winter range and wildlife/urban interface conflicts (agriculture, Interstate 80).

Reporting Biologist: Allen

Supervisor: Donham

Pronghorn Quota Recommendation Form

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

Date Prepared: _____

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019	28	65	120	24	237	78	20	600	43	32
2019-2020	10	74	185	27	296	45	15	550	41	28
2020-2021	16	79	155	55	305	61	35	550	37	24

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	0				85	83			17	100	62
2019	24				79	67			10	100	57
2020	53				90	75			17	50	52

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	25	0			50	6			15		
2020	25	0			35	4			20		
2021	10	0	1		30	3			20		
Tag Trend	DEC	=	INC	=	DEC	DEC	=	=	=	=	=

Quota Rationale

This herd is showing a slight increase this year. The increase is likely due to the increase in fawn recruitment in 2020. Recommended Horns Longer quotas represent a slight decrease due to an increase in hunter success in 2020.

Reporting Biologist: Huebner

Supervisor: Donham

Pronghorn Quota Recommendation Form

Unit Group: 078, 105-107, 121

Date Prepared: 4/7/20121

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		116	264	88	468	44	33	1,000	53	35
2019-2020		89	291	48	428	31	16	900	42	26
2020-2021		94	357	46	497	26	13	700	36	21

Harvest Results

Year	Archery Success (%)		Muzzloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	75	100	22		90	100			64		38
2019	0	0	75		81	100			47	67	24
2020	43	50	20		80	67			34	100	27

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	7	1	10		100	10			65	6	
2020	10	1	6		90	10			45		
2021	2	1	1	1	20	2			5	2	
Tag Trend	DEC	=	DEC	INC	DEC	DEC	=	=	DEC	INC	=

Quota Rationale

Three years of suppressed fawn recruitment is catching up to this herd. Quotas are reflective of a declining population with anticipated declines again next year.

Reporting Biologist: Jeffress

Supervisor: Tom Donham

Pronghorn Quota Recommendation Form

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

Date Prepared: 4/5/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		217	389	91	697	56	23	1,000	56	45
2019-2020		211	428	87	726	49	20	950	53	41
2020-2021		95	206	46	347	46	22	900	46	37

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	47	0	67		84	89			46		30
2019	33	100	0		83	100			25		36
2020	27	0	100		82	86			25		35

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	1	2		90	10			40		
2020	15	2	2		65	7			35		
2021	15	2	5	1	70	8			25	1	
Tag Trend	=	=	INC	INC	INC	INC	=	=	DEC	INC	=

Quota Rationale

This is the 3rd year in a row with well below average recruitment levels. The population continues to contract, but the high buck ratio will allow for horns longer quota recommendations similar to those in 2020. However, the recent lack of recruitment will have a negative effect on future quota recommendations. To address this situation, 2021 horns longer quota recommendations are based on a post season buck ratio objective at the top of guidelines (30 2+ yr old bucks:100 does) to allow for more buck carryover and to lessen impending tag decreases.

Reporting Biologist: Roberts

Supervisor: Donham

Pronghorn Quota Recommendation Form

Unit Group: 111-114

Date Prepared: 4/6/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		293	757	93	1,143	39	12	1,500	47	30
2019-2020		193	561	80	834	34	14	1,300	40	32
2020-2021		157	554	112	823	28	20	1,100	34	26

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	23	40	60	NA	75	84	NA	NA	40	NA	14
2019	15	0	20	NA	58	93	NA	NA	50	NA	21
2020	35	100	40	NA	65	56	NA	NA	60	NA	22

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	15	2	10	0	120	15	0	0	60		0
2020	20	2	5	0	100	10	0	0	60		0
2021	5	1	5	1	30	3	0	0	10		0
Tag Trend	DEC	DEC	=	INC	DEC	DEC	=	=	DEC	=	=

Quota Rationale

Three years of severely depressed fawn recruitment is negatively impacting this population. Horns Longer quotas have been reduced over the last two years to account for the reduction of mature bucks in the population. After three years of low fawn recruitment there are even fewer mature bucks in the population and the large drop in the Horns Longer quota recommendation reflects that.

Reporting Biologist: Kody Menghini

Supervisor: Tom Donham

Pronghorn Quota Recommendation Form

Unit Group: 131-145-163-164

Date Prepared: 4/12/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		91	313	59	463	29	19	850	36	26
2019-2020		64	293	50	407	22	17	750	38	29
2020-2021		52	302	28	382	17	9	600	35	21

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	33	100	50	N/A	83	100	N/A	N/A	31	100	25
2019	0	0	0	N/A	77	89	N/A	N/A	24		28
2020	50	0	100	N/A	81	89	N/A	N/A	22		22

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	10	1	2	0	80	10	N/A	N/A	35	1	0
2020	15	2	3	0	80	9	N/A	N/A	30	0	0
2021 Draft	5	1	1	0	25	2	N/A	N/A	30	4	0
Tag Trend	DEC	DEC	DEC	=	DEC	DEC	=	=	=	INC	=

Quota Rationale

The population estimate for this herd has been on a downward trend for the last 3 years. Observed fawn:100 doe ratios for 2018, 2019 and 2020 have been 19, 17 and 9 respectively. Prior to 2018 the 5-year average observed fawn ratio was 31 fawns:100 does. Horns Shorter quota recommendations are at the bottom of management guidelines given the declining doe population for this hunt unit group, and the likely continuing drought conditions for this portion of the state. Horns Longer quota recommendations are designed to maintain a post season 2+ year old buck ratio within objective. The large drop in quota between 2020 and 2021 is due to very poor fawn recruitment over the past few years resulting in a much lower than normal number of adult bucks on the landscape.

Reporting Biologist: Clint Garrett

Supervisor: Tom Donham

Pronghorn Quota Recommendation Form

Unit Group: 132-133-134-245

Date Prepared: _____

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		64	182	39	285	35	21	550	38	26
2019-2020		62	251	51	364	25	20	500	40	27
2020-2021		61	278	39	378	22	14	450	37	27

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	60	0	100	N/A	94	67	N/A	N/A	N/A	N/A	44
2019	50	100	0	N/A	88	80	N/A	N/A	N/A		28
2020	40	100	0	N/A	85	50	N/A	N/A	N/A	100	26

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	5	1	1	0	45	5	N/A	N/A	0	2	0
2020	5	1	1	0	35	4	N/A	N/A	0	1	0
2021	5	1	1	0	30	3	N/A	N/A	0	4	0
Tag Trend	=	=	=	=	DEC	DEC	=	=	=	INC	=

Quota Rationale

The population estimate for this herd has been on a slight decline for the last 3-years. Observed fawn:100 doe ratios for 2018,2019 and 2020 have been 21, 20 and 14 respectively, and on a steady downward trend. Prior to 2018 the 5-year average observed fawn ratio was 29 fawns:100 does. Horns Longer quota recommendations are designed to maintain a post season 2+ year old buck ratio within the upper end of objective. Another drop in quota recommendations is expected in 2022 due to the even more depressed fawn recruitment experienced in 2021, so this years' quota recommendation is designed to temper what is expected to be a larger decrease next season.

Reporting Biologist: Clint Garrett

Supervisor: Tom Donham

Pronghorn Quota Recommendation Form

Unit Group: 14-15

Date Prepared: 4/13/2021

Herd Results

Year	Post Season Survey				Survey Total	Total Buck Ratio (Obs)	Fawn:Doe Ratio (Obs)	Pop Est (August)	2 Yr + Buck Ratio (Model)	
	Yr Bucks	Bucks	Does	Fawns					Pre	Post
2018-2019		300	717	297	1,314	42	41	3,400	37	30
2019-2020		216	518	130	864	42	25	3,300	36	31
2020-2021		201	304	205	710	66	67	4,000	37	30

Harvest Results

Year	Archery Success (%)		Muzzleloader Success (%)		Early ALW Success (%)		Late ALW Success (%)		Horns Shorter Than Ears (Total)	Land Owner Comp Tag Success (%)	Horns 15" or Better (%)
	RES	NR	RES	NR	RES	NR	RES	NR			
2018	28	40			79	80			253		27
2019	17	33			72	92			356	82	27
2020	26	70			85	90			340	100	18

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

Year	Archery		Muzzleloader		Early ALW		Late ALW		Horns Shorter Than Ears	Land Owner Comp Tags	Emergency Doe Hunt
	RES	NR	RES	NR	RES	NR	RES	NR			
2019	60	6			250	25			530	11	
2020	80	9			230	25			480	5	
2021	60	7	7	1	170	20			470	11	
Tag Trend	DEC	DEC	INC	INC	DEC	DEC	=	=	DEC	INC	=

Quota Rationale

Similar to herds in the rest of northeastern Nevada, the area 14/15 herd experienced lower than average fawn recruitment in 2019, which will result in reduced availability of 2 Yr + bucks during the 2021 hunting season. Instead of relying on a single larger reduction of 2021 tag quotas, biologists attempted to temper the drop by spreading the decrease over two seasons, 2020 and 2021. To do so, biologists developed a harvest strategy targeting a post-season 2 Yr + buck ratio slightly above the center of current management objective of 20-30 bucks:100 does in 2020, and slightly below the center of management objective in 2021. A large improvement in fawn recruitment in 2020-21, as well as ongoing pronghorn conflicts on private land in the unit group have resulted in a tag quota recommendation for the Horns Shorter hunt similar to 2020. Additionally, a Horns Longer muzzleloader hunt was added for 2021 to provide more opportunity specifically for that weapon class. These muzzleloader tags are not additional tags, but are simply a redistribution of tags across weapon classes.

Reporting Biologist: S. Hale

Supervisor: T. Donham