

**FORT A.P. HILL
DEER HARVEST
REPORT 2018 - 2019**



Fort A.P. Hill 2018-19 Deer Harvest Report

The 2018-19 deer harvest at Fort A.P. Hill (FAPH), was 406. That is down 11% from last year's total of 453. The total harvest went down despite an increase in either sex hunting days and an increase in antlerless season bag limit. There were 284 (70%) bucks and 122 (30%) does harvested. The number of hunting trips slightly decreased from 2017's 8607 to this year's 8260. Hunters spent 45,843 hours in the woods. It took an average of 20.3 trips and 112.9 hours for each deer harvested.

EHD and CWD

There was not an outbreak of Epizootic Hemorrhagic Disease (EHD) this fall at FAPH. The FAPH deer herd has suffered from three EHD deadly outbreaks in the last eight years. These outbreaks combined with coyote predation and one severe winter die-off created a sharply declining population that was unable to rebound despite a drastic reduction in either-sex hunting days.

Samples from fifteen deer were taken as part of a statewide Chronic Wasting Disease (CWD) testing project. All samples from Fort A.P. Hill came back negative for CWD. This disease is currently found in only two counties in Virginia, Frederick and Shenandoah, both of which are in the Northwestern part of the state. CWD is now receiving nationwide news coverage as the disease continues to expand. Currently, twenty-five states have confirmed CWD outbreaks. No state has successfully eradicated CWD once it has been confirmed in the state.

Bears

No bears were harvested on FAPH again this season. Bear sightings have become rare again in recent years. Bears were harvested for two consecutive seasons, one in 2012 and one in 2013. Since then bear sightings have been very rare and the state population which seemed to be quickly expanding towards Caroline County now seems to be stalled. No resident bears are believed to be calling FAPH their home currently.

Fawn Research

Beginning in the spring of 2011 the FAPH Fish and Wildlife Branch started a fawn research project. The research goals were to retrieve known age jaws from future hunter harvested animals to assist with tooth wear aging specific to FAPH and also to

determine how far our young bucks were dispersing at one to one and a half years of age.

Early last fall we received a call from a motorist that had hit and killed a buck that had been tagged on FAPH 2 ½ years earlier. The buck was killed on Rt. 30, 17.7 miles from the tagging location as a new born fawn. Please help this research by checking the ears for a research tag of the deer you harvest on FAPH and surrounding areas. The tags are purposely rather small and brown and white so that they are not obvious to hunters that have the opportunity to harvest the deer. This is done so there is not any hunter bias in either purposely passing up a deer that is seen with an ear tag, or intentionally passing on another deer to shoot one with a tag.

Expectations for Next Season

This past fall's oak acorn crop was heavy with lots of both white oak and red oak acorns for deer to forage on. Surprisingly, even with this abundance of high fat and carbohydrate acorns harvested deer weights dropped slightly. Antler measurements were down from the 2017-18 season as well. This reduction in antlers would be expected due to the oak tree mast failure in 2017. The drop in weights on the other hand is hard to explain with the ample availability of food.

Weather may have played a part in the reduced harvest this past season. Many of the deer season's Saturdays were rainy. Permit sales, and the number of hunting trips and hours hunted remained close to previous seasons showing that hunter effort was similar.

It is anticipated that the antlerless bag limit and the number of either sex hunting days will in the 2019-20 season will be similar to the 2018 season. We do not anticipate any big regulation changes. Assuming there is not a severe EHD outbreak this August through October the deer numbers should be similar next season to last year's population.

It seems probable that for the time being, we are looking at the new normal for deer herd population. Despite extreme efforts to rebuild the herd, disease outbreaks and predation have proven to be a challenging limitation to herd growth. Deer populations in the surrounding region are experiencing the same difficulties.

In the coming weeks please look for an email containing a link to the FAPH Annual Hunter Survey. We always look forward to your thoughts and input

Table 1: Harvest Totals and Percentage by Area and Sex

2018-19	Harvest	% of Total Harvest
Males	284	70.0%
TA	204 71.8%	50.2%
CA	80 28.2%	19.7%
Females	122	30.0%
TA	91 74.6%	22.4%
CA	31 25.4%	7.6%
Total Harvest	406	100.0%
TA	295	72.7%
CA	111	27.3%

2017-18	Harvest	% of Total Harvest
Males	325	71.7%
TA	247 76.0%	54.5%
CA	78 24.0%	17.2%
Females	128	28.3%
TA	78 60.9%	17.2%
CA	50 39.1%	11.1%
Total Harvest	453	100.0%
TA	325	71.7%
CA	128	28.3%

Table 2a: Age Distribution

Age Class	Male		Female		Total	
	NO.	(%)	NO.	(%)	NO.	(%)
0.5 year-olds (Fawns)	11	3.9%	10	8.2%	21	5.2%
1.5 year-olds (Yearlings)	45	15.8%	20	16.4%	65	16.0%
2.5 year-olds	93	32.7%	30	24.6%	123	30.3%
3.5 year-olds	74	26.1%	22	18.0%	96	23.6%
4.5 year-olds	29	10.2%	10	8.2%	39	9.6%
5.5 year-olds	12	4.2%	14	11.5%	26	6.4%
6.5 year-olds	12	4.2%	9	7.4%	21	5.2%
7.5 year-olds	2	0.7%	2	1.6%	4	1.0%
8.5 year-olds +	0	0.0%	2	1.6%	2	0.5%
Unknown	6	2.1%	3	2.5%	9	2.2%
Totals	284		122		406	

Table 2b: Age Distribution Historical Comparison

Age Class	Male			Female			Total		
	2018-19	2017-18	2016-17	2018-19	2017-18	2016-17	2018-19	2017-18	2016-17
0.5 year-olds (Fawns)	3.9%	5.5%	4.9%	8.2%	18.8%	10.9%	5.2%	9.3%	6.1%
1.5 year-olds (Yearlings)	15.8%	18.5%	22.8%	16.4%	13.3%	18.8%	16.0%	17.0%	21.9%
2.5 year-olds	32.7%	27.1%	25.2%	24.6%	21.1%	12.5%	30.3%	25.4%	22.6%
3.5 year-olds	26.1%	19.4%	22.0%	18.0%	8.6%	18.8%	23.6%	16.3%	21.3%
4.5 year-olds	10.2%	14.8%	12.2%	8.2%	9.4%	10.9%	9.6%	13.2%	11.9%
5.5 year-olds	4.2%	9.8%	9.8%	11.5%	10.9%	17.2%	6.4%	10.2%	11.3%
6.5 year-olds	4.2%	4.0%	2.8%	7.4%	9.4%	6.3%	5.2%	5.5%	3.5%
7.5 year-olds	0.7%	0.6%	0.0%	1.6%	3.9%	3.1%	1.0%	1.5%	0.6%
8.5 year-olds +	0.0%	0.3%	0.0%	1.6%	2.3%	0.0%	0.5%	0.9%	0.0%
Unknown	2.1%	0.0%	0.4%	2.5%	2.3%	1.6%	2.2%	0.7%	0.6%

Table 2c: Age Distribution Historical Comparison

Year	Bucks - Age %			Does - Age %		
	0.5	1.5	2.5+	0.5	1.5	2.5+
2016	5%	23%	72%	11%	19%	70%
2017	6%	19%	76%	19%	13%	68%
2018	4%	16%	78%	8%	16%	73%

Table 3: Statistics for Females

Age Class	Dressed Weight		Lactation Rates (October)	
	Avg.	No.	Percent	No.
0.5 year-olds (Fawns)	32.8	10	--	--
1.5 year-olds (Yearlings)	53.6	20	--	--
2.5 year-olds	67.0	30	14.3%	2
3.5 year-olds +	70.5	59	58.3%	7

Table 4: Statistics for Males

Age Class	% of Total	Dressed Weight		Antler Points		Beam Diameter (mm)		Outside Spread (in)		Beam Length (in)	
		Avg.	No.	Avg.	No.	Avg.	No.	Avg.	No.	Avg.	No.
0.5 year- olds (Fawns)	3.9%	37.2	11	-	-	-	-	-	-	-	-
1.5 year-olds (Yearlings)	15.8%	67.2	45	2.7	41	13.2	42	6.3	40	6.1	42
2.5 year-olds	32.7%	86.8	93	5.7	92	22.2	92	13.1	90	14.6	92
3.5 year-olds +	45.4%	99.7	129	7.1	129	28.4	129	16.7	126	18.1	129

Table 5: Buck Harvest by Area and Number of Antler Points

# of Points	Total		TA		CA	
	#	D	#	D	#	D
BB	13	0.15	11	0.16	2	0.10
1	0	0.00	0	0.00	0	0.00
2	32	0.36	29	0.42	3	0.15
3	9	0.10	9	0.13	0	0.00
4	32	0.36	31	0.45	1	0.05
5	19	0.21	12	0.17	7	0.36
6	61	0.68	41	0.59	20	1.01
7	35	0.39	23	0.33	12	0.61
8	66	0.74	39	0.56	27	1.37
9	9	0.10	6	0.09	3	0.15
10	2	0.02	0	0.00	2	0.10
11	0	0.00	0	0.00	0	0.00
12	1	0.01	0	0.00	1	0.05
13	1	0.01	1	0.01	0	0.00
14	1	0.01	0	0.00	1	0.05
SHED	2	0.02	1	0.01	1	0.05
D = Density (# deer harvested per square mile)						

Table 6: Antler Measurements

2018-2019			
	Total	TA	CA
# Antlered	268	191	77
# 8pt +	80	46	34
% 8pt +	29.9%	24.1%	44.2%
Harvest Density (8pt+ per SQ Mi)	0.90	0.66	1.73
% 1.5 w/ Spikes	64.4%	65.0%	60.0%
Avg 1.5 Beam Diameter (mm)	13.2	13.2	13.5
Avg 2.5+ Beam Diameter (mm)	25.9	24.9	27.9
Avg 1.5 Beam Length (in)	6.0	6.1	5.1
Avg 2.5+ Beam Length (in)	16.7	15.9	18.4
Avg 1.5 Outside Spread (in)	6.2	6.2	5.8
Avg 2.5+ Outside Spread (in)	15.2	14.5	16.9

2017-2018			
	Total	TA	CA
# Antlered	300	231	69
# 8pt +	121	86	35
% 8pt +	40.3%	37.2%	50.7%
Harvest Density (8pt+ per SQ Mi)	1.36	1.24	1.78
% 1.5 w/ Spikes	53.3%	55.3%	33.0%
Avg 1.5 Beam Diameter (mm)	15.8	15.6	18.7
Avg 2.5+ Beam Diameter (mm)	29.0	28.4	30.8
Avg 1.5 Beam Length (in)	7.9	7.8	10.0
Avg 2.5+ Beam Length (in)	18.0	17.7	18.8
Avg 1.5 Outside Spread (in)	7.2	7.1	9.1
Avg 2.5+ Outside Spread (in)	16.6	16.2	17.5

Table 7a: TA Harvest Totals and Average Weight in lbs (W) by Area, Age and Sex

Training Area	Total Count	Males										Females							
		All	0.5	W	1.5	W	2.5+	W	Unkn	W	All	0.5	W	1.5	W	2.5+	W	Unkn	W
1	14	9	1	36.0	2	64.0	5	89.0	1	95.0	5	1	32.0	1	41.0	3	60.0	0	-
2	6	3	0	-	1	72.0	2	92.0	0	-	3	0	-	0	-	3	65.3	0	-
3	5	2	0	-	0	-	2	76.0	0	-	3	0	-	0	-	3	69.7	0	-
4	1	0	0	-	0	-	0	-	0	-	1	0	-	0	-	1	78.0	0	-
5	18	9	0	-	3	58.3	6	87.2	0	-	9	2	32.0	1	51.0	6	67.2	0	-
6	25	22	0	-	1	56.0	21	92.8	0	-	3	0	-	0	-	3	70.7	0	-
7	25	14	0	-	5	64.4	9	83.2	0	-	11	1	32.0	1	40.0	8	70.5	1	75.0
8	15	8	0	-	0	-	8	90.1	0	-	7	1	45.0	1	48.0	5	63.0	0	-
9	13	12	1	40.0	1	62.0	10	88.4	0	-	1	1	30.0	0	-	0	-	0	-
10	7	5	0	-	0	-	5	95.2	0	-	2	0	-	0	-	2	72.5	0	-
11	5	5	1	30.0	1	70.0	3	94.7	0	-	0	0	-	0	-	0	-	0	-
12	7	7	0	-	2	62.0	5	97.8	0	-	0	0	-	0	-	0	-	0	-
13	5	3	0	-	2	66.5	1	86.0	0	-	2	0	-	1	53.0	1	64.0	0	-
14	6	4	0	-	2	55.5	2	91.0	0	-	2	0	-	0	-	2	65.0	0	-
15	13	10	0	-	2	71.5	8	89.1	0	-	3	0	-	3	55.3	0	-	0	-
16	9	7	0	-	2	65.5	5	95.0	0	-	2	0	-	0	-	2	67.5	0	-
17	3	2	1	36.0	0	-	1	94.0	0	-	1	0	-	1	52.0	0	-	0	-
18	12	7	1	33.0	1	81.0	5	91.4	0	-	5	0	-	0	-	5	60.8	0	-
19	12	5	0	-	0	-	5	88.8	0	-	7	0	-	1	42.0	6	65.5	0	-
20	16	14	1	28.0	1	56.0	11	91.3	1	88.0	2	1	26.0	0	-	1	50.0	0	-
21	8	6	0	-	2	65.0	4	94.3	0	-	2	1	35.0	1	53.0	0	-	0	-
22	15	9	0	-	2	82.0	7	90.4	0	-	6	0	-	0	-	6	75.2	0	-
23	12	9	0	-	3	66.0	6	89.2	0	-	3	1	22.0	0	-	2	74.0	0	-
24	9	7	2	41.0	2	73.0	3	84.0	0	-	2	0	-	0	-	2	70.5	0	-
25	11	7	0	-	1	82.0	6	93.3	0	-	4	0	-	2	51.0	1	79.0	1	83.0
26	3	2	0	-	0	-	2	85.0	0	-	1	0	-	0	-	1	65.0	0	-
28	11	9	0	-	2	64.0	7	87.6	0	-	2	1	41.0	1	55.0	0	-	0	-
30	8	7	1	39.0	2	68.5	4	87.8	0	-	1	0	-	0	-	1	79.0	0	-
31	1	0	0	-	0	-	0	-	0	-	1	0	-	0	-	0	-	1	36.0
TA Total	295	204	9	36.0	40	66.2	153	90.2	2	91.5	91	10	32.7	14	50.2	64	67.8	3	64.7
TOTAL	406	284	11	37.2	45	66.8	222	93.6	6	99.2	122	10	32.7	20	53.5	89	69.0	3	64.7

Table 7b: CA Harvest Totals and Average Weight in lbs (W) by Area, Age and Sex

Training Area	Total Count	Males										Females									
		All	0.5	W	1.5	W	2.5+	W	Unkn	W	All	0.5	W	1.5	W	2.5+	W	Unkn	W		
CA1	8	6	0	-	1	63.0	5	97.4	0	-	2	0	-	1	62.0	1	84.0	0	-		
CA2	2	1	0	-	0	-	1	100.0	0	-	1	0	-	0	-	1	66.0	0	-		
CA3	3	2	0	-	0	-	2	91.5	0	-	1	0	-	0	-	1	76.0	0	-		
CA4	5	4	0	-	0	-	4	101.8	0	-	1	0	-	0	-	1	69.0	0	-		
CA5	2	1	0	-	0	-	1	96.0	0	-	1	0	-	1	50.0	0	-	0	-		
CA6	3	1	0	-	0	-	1	97.0	0	-	2	0	-	0	-	2	68.5	0	-		
CA7	6	5	0	-	0	-	5	102.0	0	-	1	0	-	0	-	1	83.0	0	-		
CA8	2	2	0	-	0	-	2	95.5	0	-	0	0	-	0	-	0	-	0	-		
CA9	2	2	0	-	1	61.0	1	122.0	0	-	0	0	-	0	-	0	-	0	-		
CA10A	2	2	0	-	0	-	1	86.0	1	116.0	0	0	-	0	-	0	-	0	-		
CA10B	2	1	0	-	0	-	1	107.0	0	-	1	0	-	0	-	1	63.0	0	-		
CA11A	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-		
CA11B	1	1	0	-	0	-	1	94.0	0	-	0	0	-	0	-	0	-	0	-		
CA12	2	2	0	-	0	-	2	111.5	0	-	0	0	-	0	-	0	-	0	-		
CA13	2	2	0	-	0	-	2	120.5	0	-	0	0	-	0	-	0	-	0	-		
CA14A	4	3	0	-	0	-	3	97.0	0	-	1	0	-	1	80.0	0	-	0	-		
CA14B	7	5	2	42.5	0	-	2	101.5	1	110.0	2	0	-	0	-	2	70.0	0	-		
CA15	7	6	0	-	1	70.0	4	103.0	1	95.0	1	0	-	0	-	1	72.0	0	-		
CA16	12	6	0	-	0	-	6	108.3	0	-	6	0	-	2	61.5	4	75.3	0	-		
CA17	3	3	0	-	1	97.0	2	83.5	0	-	0	0	-	0	-	0	-	0	-		
CA18	4	3	0	-	0	-	3	119.7	0	-	1	0	-	0	-	1	54.0	0	-		
CA19A	2	1	0	-	0	-	1	99.0	0	-	1	0	-	0	-	1	62.0	0	-		
CA19B	6	6	0	-	1	64.0	5	104.6	0	-	0	0	-	0	-	0	-	0	-		
CA20	4	2	0	-	0	-	2	94.5	0	-	2	0	-	0	-	2	74.0	0	-		
CA21	8	3	0	-	0	-	3	88.0	0	-	5	0	-	0	-	5	71.2	0	-		
CA22	5	3	0	-	0	-	2	107.5	1	91.0	2	0	-	1	52.0	1	92.0	0	-		
CA23	4	4	0	-	0	-	4	95.8	0	-	0	0	-	0	-	0	-	0	-		
CA24	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-		
CA25	2	2	0	-	0	-	2	90.0	0	-	0	0	-	0	-	0	-	0	-		
CA26	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-		
CA27	1	1	0	-	0	-	1	106.0	0	-	0	0	-	0	-	0	-	0	-		
CA Total	111	80	2	42.5	5	71.0	69	101.2	4	103.0	31	0	NA	6	61.2	25	72.1	0	NA		
TOTAL	406	284	11	37.2	45	66.8	222	93.6	6	99.2	122	10	32.7	20	53.5	89	69.0	3	64.7		

Table 8a: TA Harvest Density (D) per Huntable Square Mile by Area, Age and Sex

Training Area	Area Size (SQ Mi)	Total Count	Total D	Males								Females							
				0.5	D	1.5	D	2.5+	D	Unkn	D	0.5	D	1.5	D	2.5+	D	Unkn	D
1	1.785	14	7.84	1	0.56	2	1.12	5	2.80	1	0.56	1	0.56	1	0.56	3	1.68	0	-
2	0.875	6	6.85	0	-	1	1.14	2	2.28	0	-	0	-	0	-	3	3.43	0	-
3	1.318	5	3.79	0	-	0	-	2	1.52	0	-	0	-	0	-	3	2.28	0	-
4	0.351	1	2.85	0	-	0	-	0	-	0	-	0	-	0	-	1	2.85	0	-
5	2.864	18	6.28	0	-	3	1.05	6	2.09	0	-	2	0.70	1	0.35	6	2.09	0	-
6	3.714	25	6.73	0	-	1	0.27	21	5.65	0	-	0	-	0	-	3	0.81	0	-
7	3.563	25	7.02	0	-	5	1.40	9	2.53	0	-	1	0.28	1	0.28	8	2.25	1	0.28
8	2.197	15	6.83	0	-	0	-	8	3.64	0	-	1	0.46	1	0.46	5	2.28	0	-
9	2.253	13	5.77	1	0.44	1	0.44	10	4.44	0	-	1	0.44	0	-	0	-	0	-
10	2.170	7	3.23	0	-	0	-	5	2.30	0	-	0	-	0	-	2	0.92	0	-
11	1.524	5	3.28	1	0.66	1	0.66	3	1.97	0	-	0	-	0	-	0	-	0	-
12	3.349	7	2.09	0	-	2	0.60	5	1.49	0	-	0	-	0	-	0	-	0	-
13	2.005	5	2.49	0	-	2	1.00	1	0.50	0	-	0	-	1	0.50	1	0.50	0	-
14	1.563	6	3.84	0	-	2	1.28	2	1.28	0	-	0	-	0	-	2	1.28	0	-
15	2.495	13	5.21	0	-	2	0.80	8	3.21	0	-	0	-	3	1.20	0	-	0	-
16	2.069	9	4.35	0	-	2	0.97	5	2.42	0	-	0	-	0	-	2	0.97	0	-
17	1.225	3	2.45	1	0.82	0	-	1	0.82	0	-	0	-	1	0.82	0	-	0	-
18	2.958	12	4.06	1	0.34	1	0.34	5	1.69	0	-	0	-	0	-	5	1.69	0	-
19	3.161	12	3.80	0	-	0	-	5	1.58	0	-	0	-	1	0.32	6	1.90	0	-
20	4.533	16	3.53	1	0.22	1	0.22	11	2.43	1	0.22	1	0.22	0	-	1	0.22	0	-
21	3.739	8	2.14	0	-	2	0.53	4	1.07	0	-	1	0.27	1	0.27	0	-	0	-
22	3.910	15	3.84	0	-	2	0.51	7	1.79	0	-	0	-	0	-	6	1.53	0	-
23	3.245	12	3.70	0	-	3	0.92	6	1.85	0	-	1	0.31	0	-	2	0.62	0	-
24	1.995	9	4.51	2	1.00	2	1.00	3	1.50	0	-	0	-	0	-	2	1.00	0	-
25	4.472	11	2.46	0	-	1	0.22	6	1.34	0	-	0	-	2	0.45	1	0.22	1	0.22
26	2.138	3	1.40	0	-	0	-	2	0.94	0	-	0	-	0	-	1	0.47	0	-
28	2.716	11	4.05	0	-	2	0.74	7	2.58	0	-	1	0.37	1	0.37	0	-	0	-
30	1.211	8	6.61	1	0.83	2	1.65	4	3.30	0	-	0	-	0	-	1	0.83	0	-
31	0.752	1	1.33	0	-	0	-	0	-	0	-	0	-	0	-	0	-	1	1.33
TA Total	70.150	295	4.21	9	0.13	40	0.57	153	2.18	2	0.03	10	0.14	14	0.20	64	0.91	3	0.04
TOTAL	89.855	406	4.52	11	0.12	45	0.50	222	2.47	6	0.07	10	0.11	20	0.22	89	0.99	3	0.03

Table 8b: CA Harvest Density (D) per Hunttable Square Mile by Area, Age and Sex

Training Area	Area Size (SQ Mi)	Total Count	Total D	Males								Females							
				0.5	D	1.5	D	2.5+	D	Unkn	D	0.5	D	1.5	D	2.5+	D	Unkn	D
CA1	1.309	8	6.11	0	-	1	0.76	5	3.82	0	-	0	-	1	0.76	1	0.76	0	-
CA2	0.487	2	4.11	0	-	0	-	1	2.05	0	-	0	-	0	-	1	2.05	0	-
CA3	0.319	3	9.41	0	-	0	-	2	6.27	0	-	0	-	0	-	1	3.14	0	-
CA4	0.669	5	7.48	0	-	0	-	4	5.98	0	-	0	-	0	-	1	1.50	0	-
CA5	0.667	2	3.00	0	-	0	-	1	1.50	0	-	0	-	1	1.50	0	-	0	-
CA6	0.589	3	5.09	0	-	0	-	1	1.70	0	-	0	-	0	-	2	3.39	0	-
CA7	1.234	6	4.86	0	-	0	-	5	4.05	0	-	0	-	0	-	1	0.81	0	-
CA8	0.398	2	5.02	0	-	0	-	2	5.02	0	-	0	-	0	-	0	-	0	-
CA9	0.338	2	5.91	0	-	1	2.96	1	2.96	0	-	0	-	0	-	0	-	0	-
CA10A	0.592	2	3.05	0	-	0	-	1	1.53	1	1.53	0	-	0	-	0	-	0	-
CA10B	0.655	2	3.37	0	-	0	-	1	1.69	0	-	0	-	0	-	1	1.69	0	-
CA11A	0.368	0	0.00	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
CA11B	0.281	1	3.56	0	-	0	-	1	3.56	0	-	0	-	0	-	0	-	0	-
CA12	0.466	2	4.30	0	-	0	-	2	4.30	0	-	0	-	0	-	0	-	0	-
CA13	0.523	2	3.82	0	-	0	-	2	3.82	0	-	0	-	0	-	0	-	0	-
CA14A	0.544	4	7.36	0	-	0	-	3	5.52	0	-	0	-	1	1.84	0	-	0	-
CA14B	0.899	7	7.79	2	2.22	0	-	2	2.22	1	1.11	0	-	0	-	2	2.22	0	-
CA15	0.918	7	7.63	0	-	1	1.09	4	4.36	1	1.09	0	-	0	-	1	1.09	0	-
CA16	1.613	12	7.44	0	-	0	-	6	3.72	0	-	0	-	2	1.24	4	2.48	0	-
CA17	0.881	3	3.40	0	-	1	1.13	2	2.27	0	-	0	-	0	-	0	-	0	-
CA18	0.826	4	4.84	0	-	0	-	3	3.63	0	-	0	-	0	-	1	1.21	0	-
CA19A	0.738	2	2.71	0	-	0	-	1	1.36	0	-	0	-	0	-	1	1.36	0	-
CA19B	0.473	6	12.69	0	-	1	2.11	5	10.57	0	-	0	-	0	-	0	-	0	-
CA20	0.695	4	5.75	0	-	0	-	2	2.88	0	-	0	-	0	-	2	2.88	0	-
CA21	0.993	8	8.06	0	-	0	-	3	3.02	0	-	0	-	0	-	5	5.04	0	-
CA22	0.474	5	10.54	0	-	0	-	2	4.22	1	2.11	0	-	1	2.11	1	2.11	0	-
CA23	0.411	4	9.73	0	-	0	-	4	9.73	0	-	0	-	0	-	0	-	0	-
CA24	0.323	0	0.00	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
CA25	0.484	2	4.13	0	-	0	-	2	4.13	0	-	0	-	0	-	0	-	0	-
CA26	0.294	0	0.00	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
CA27	0.243	1	4.12	0	-	0	-	1	4.12	0	-	0	-	0	-	0	-	0	-
CA Total	19.705	111	5.63	2	0.10	5	0.25	69	3.50	4	0.20	0	-	6	0.30	25	1.27	0	-
TOTAL	89.855	406	4.52	11	0.12	45	0.50	222	2.47	6	0.07	10	0.11	20	0.22	89	0.99	3	0.03

Table 9a: Hunter Effort and Success Rates by Area for TA areas

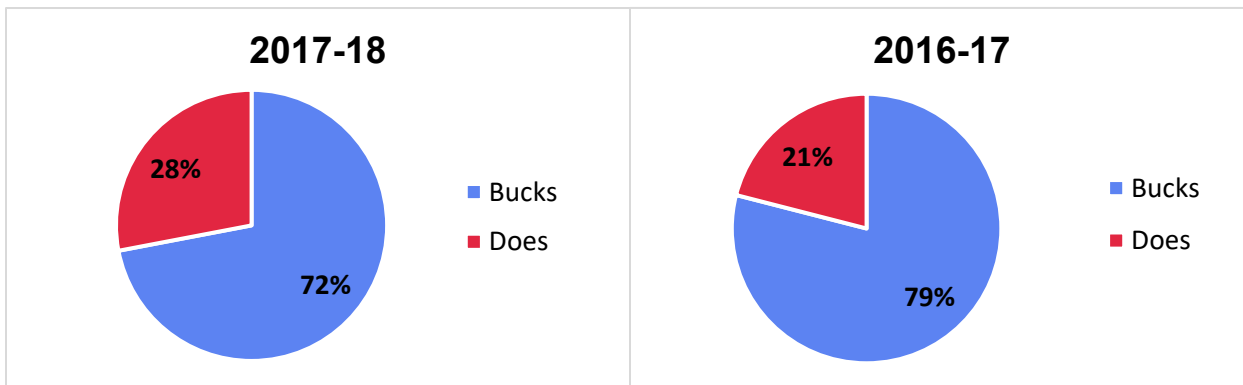
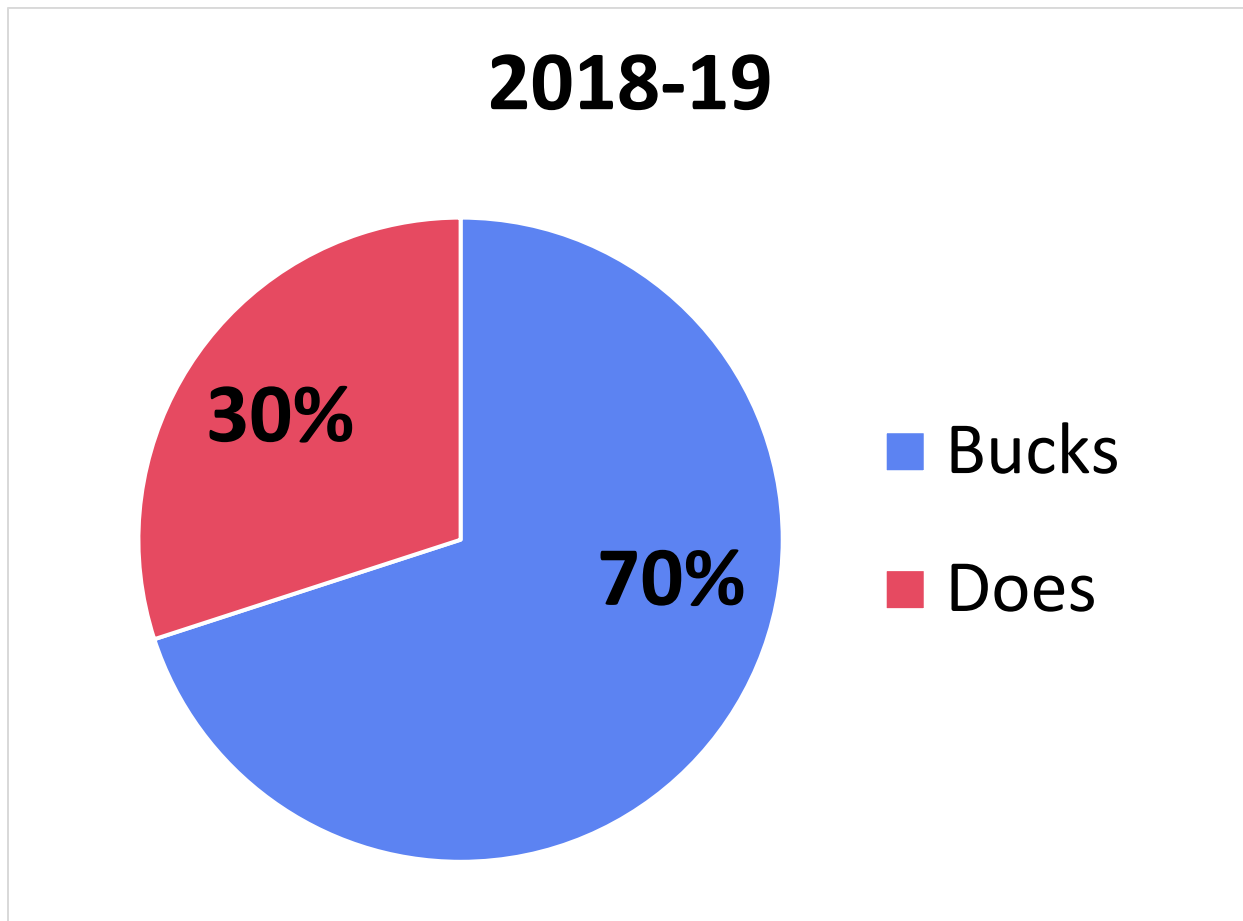
Training Area	# Deer Harvested	# of Hunt Trips	# of Hours Hunted	Hunt Trips per Deer Harvested	Hours per Deer Harvested
1	14	174	801	12.4	57.2
2	6	75	364	12.5	60.7
3	5	207	941	41.4	188.2
4	1	56	411	56.0	411.0
5	18	395	2035	21.9	113.1
6	25	445	2055	17.8	82.2
7	25	386	2031	15.4	81.3
8	15	203	1252	13.5	83.5
9	13	163	1026	12.5	78.9
10	7	192	1138	27.4	162.6
11	5	119	635	23.8	127.0
12	7	218	1184	31.1	169.1
13	5	189	1156	37.8	231.2
14	6	238	1174	39.7	195.7
15	13	274	1549	21.1	119.2
16	9	210	1093	23.3	121.4
17	3	129	636	43.0	212.0
18	12	225	1253	18.8	104.4
19	12	279	1549	23.3	129.1
20	16	381	2008	23.8	125.5
21	8	240	1174	30.0	146.8
22	15	347	1933	23.1	128.9
23	12	256	1196	21.3	99.7
24	9	183	907	20.3	100.8
25	11	367	1929	33.4	175.4
26	3	110	516	36.7	172.0
28	11	305	1750	27.7	159.1
30	8	133	809	16.6	101.1
31	1	40	255	40.0	255.0
TA Total	295	6539	34761	22.2	117.8
Total	406	8260	45843	20.3	112.9

Table 9b: Hunter Effort and Success Rates by Area for CA areas

Training Area	# Deer Harvested	# of Hunt Trips	# of Hours Hunted	Hunt Trips per Deer Harvested	Hours per Deer Harvested
CA1	8	81	508	10.1	63.5
CA2	2	69	356	34.5	178.0
CA3	3	14	93	4.7	31.0
CA4	5	66	390	13.2	78.0
CA5	2	29	145	14.5	72.5
CA6	3	51	309	17.0	103.0
CA7	6	50	323	8.3	53.8
CA8	2	40	291	20.0	145.5
CA9	2	52	376	26.0	188.0
CA10A	2	49	275	24.5	137.5
CA10B	2	33	157	16.5	78.5
CA11A	0	36	180	-	-
CA11B	1	45	361	45.0	361.0
CA12	2	76	455	38.0	227.5
CA13	2	41	294	20.5	147.0
CA14A	4	76	551	19.0	137.8
CA14B	7	113	723	16.1	103.3
CA15	7	122	837	17.4	119.6
CA16	12	141	1097	11.8	91.4
CA17	3	60	419	20.0	139.7
CA18	4	59	395	14.8	98.8
CA19A	2	40	320	20.0	160.0
CA19B	6	28	192	4.7	32.0
CA20	4	89	488	22.3	122.0
CA21	8	45	300	5.6	37.5
CA22	5	42	207	8.4	41.4
CA23	4	24	129	6.0	32.3
CA24	0	13	100	-	-
CA25	2	49	280	24.5	140.0
CA26	0	49	282	-	-
CA27	1	39	247	39.0	247.0
CA Total	111	1721	11082	15.5	99.8
Total	406	8260	45843	20.3	112.9

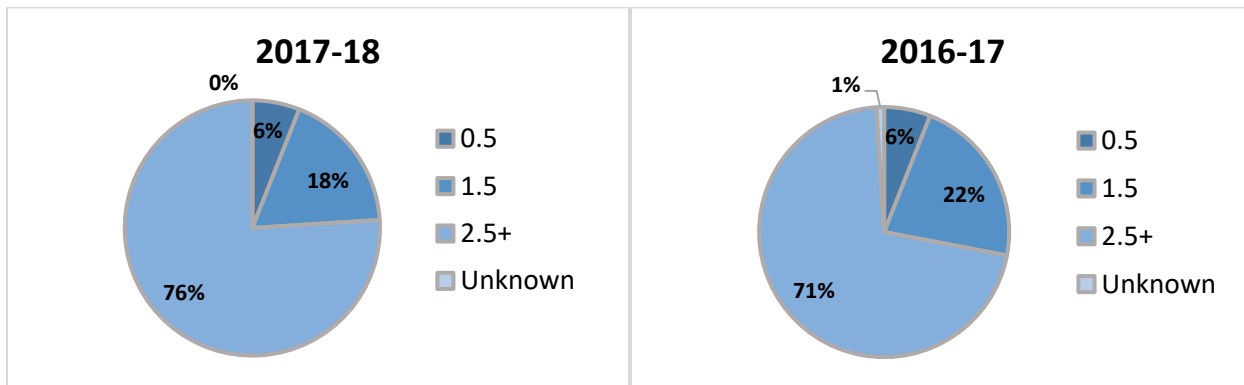
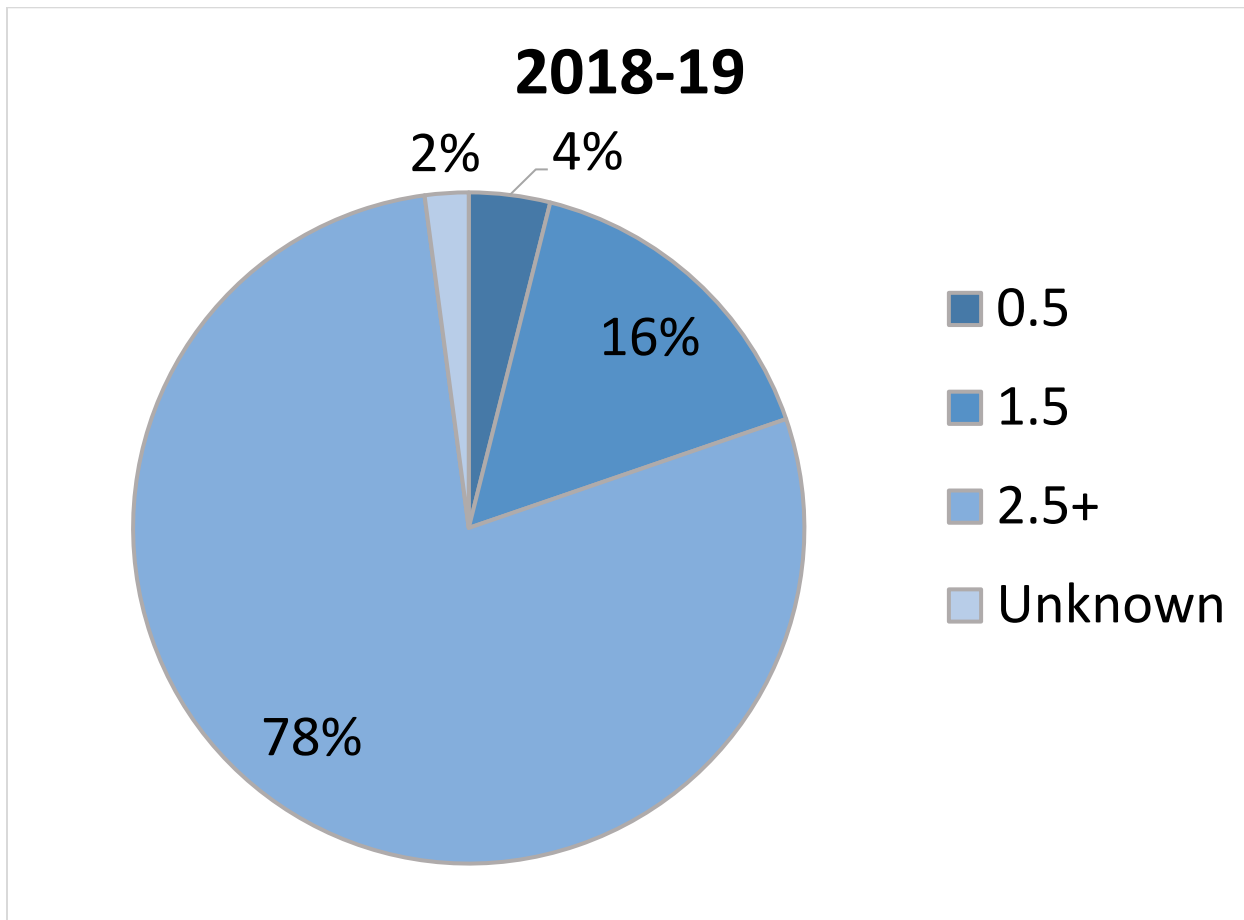
Historical Data Comparison

Chart 1: Harvest Sex Ratio



Historical Data Comparison

Chart 2: Buck Harvest Age Structure



Historical Data Comparison

Chart 3: Doe Harvest Age Structure

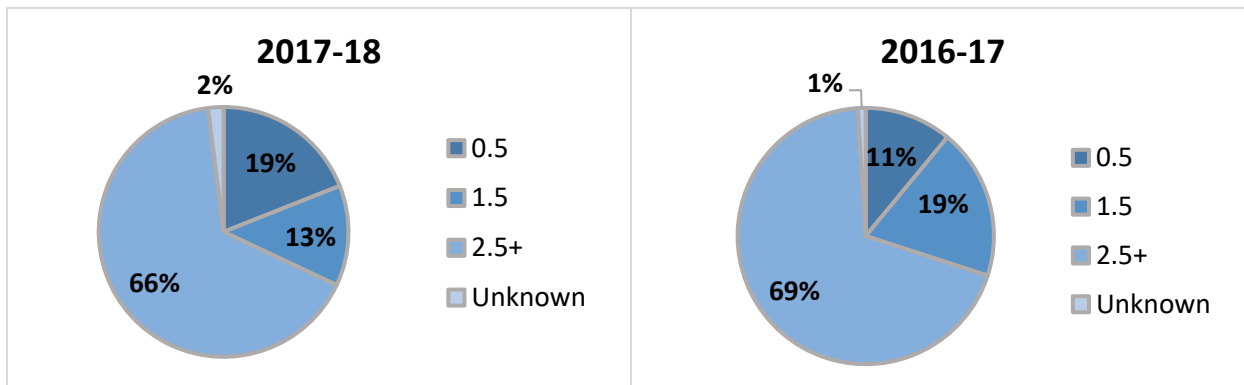
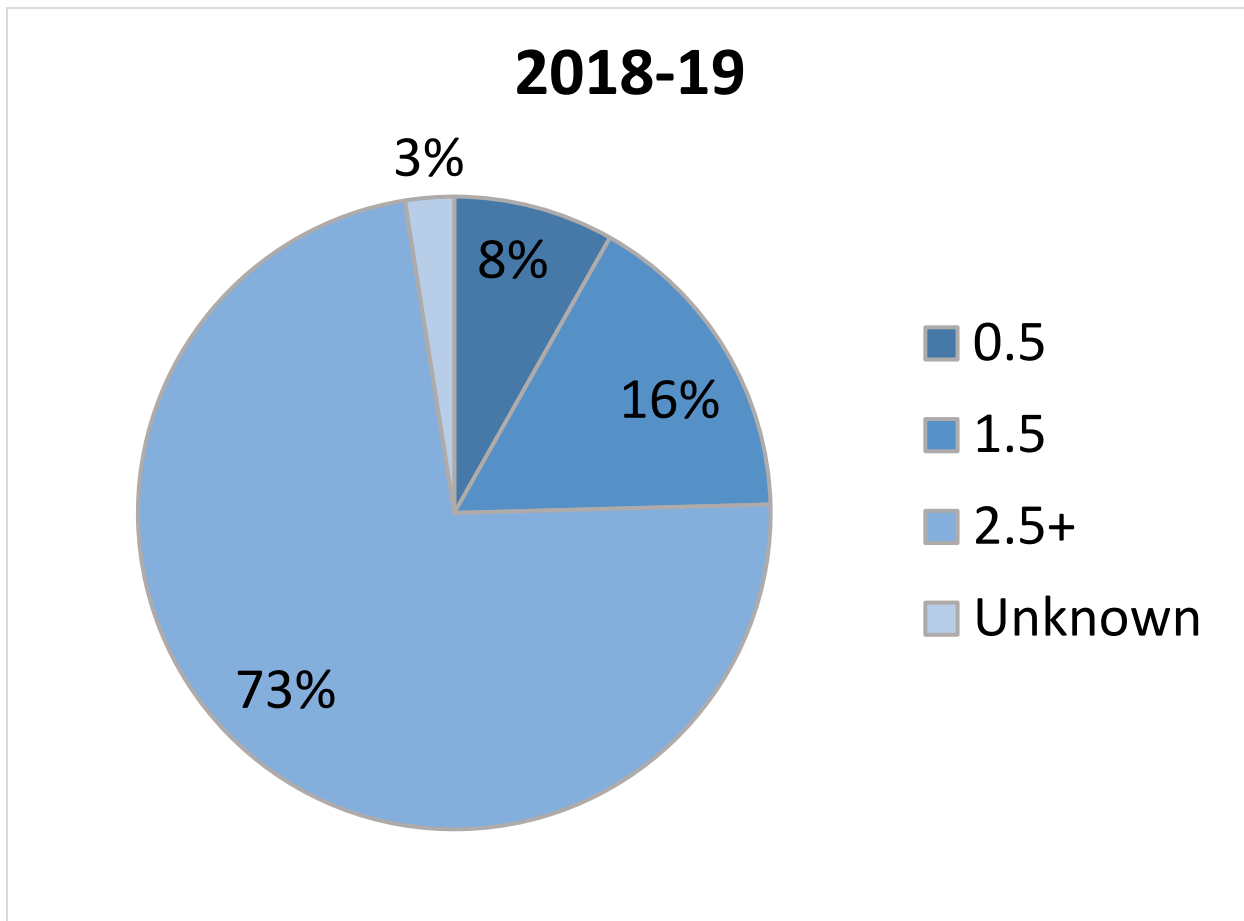


Chart 4: Training Area and Controlled Access Area Comparison

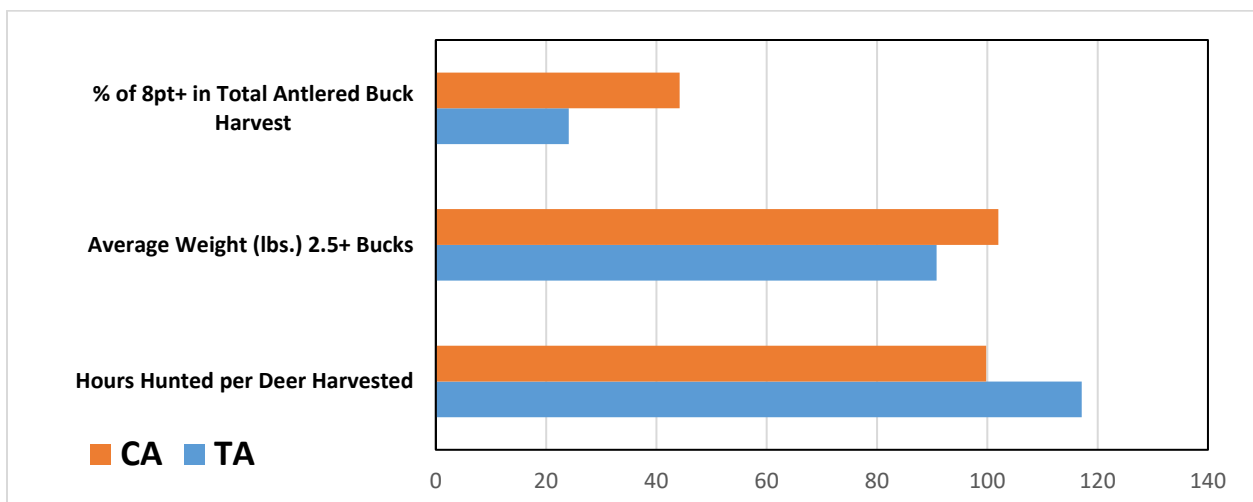
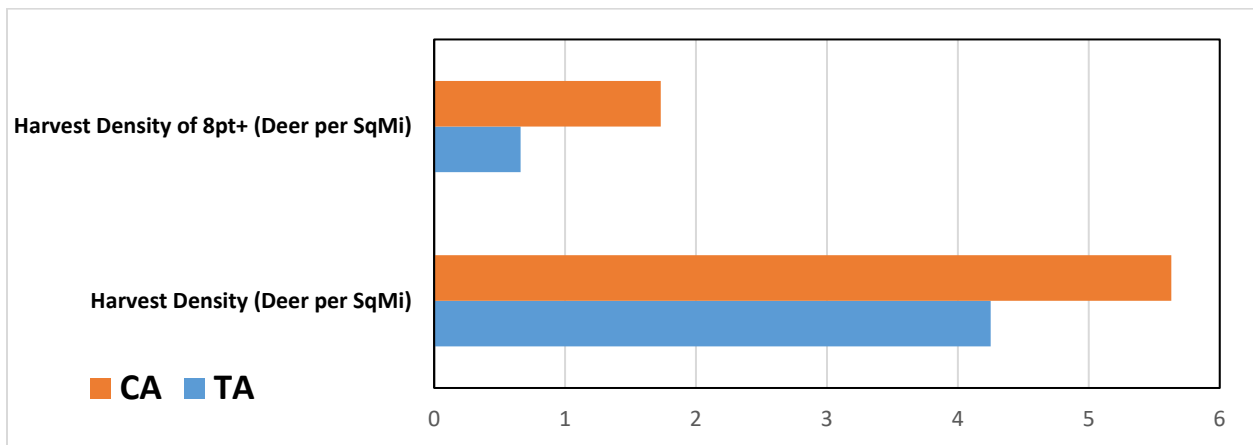
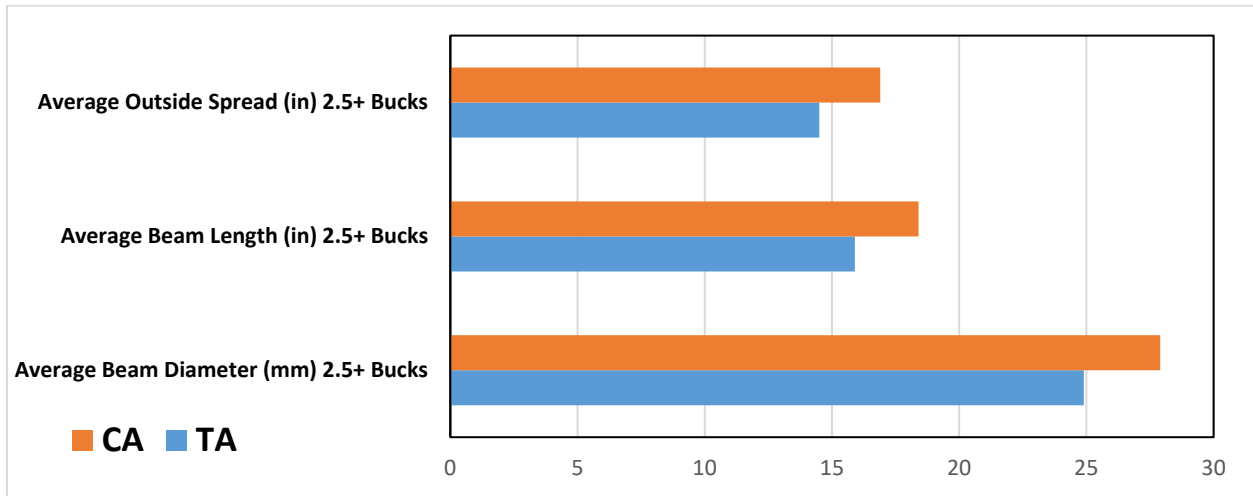


Chart 5: Historical Buck to Doe Harvest Ratios

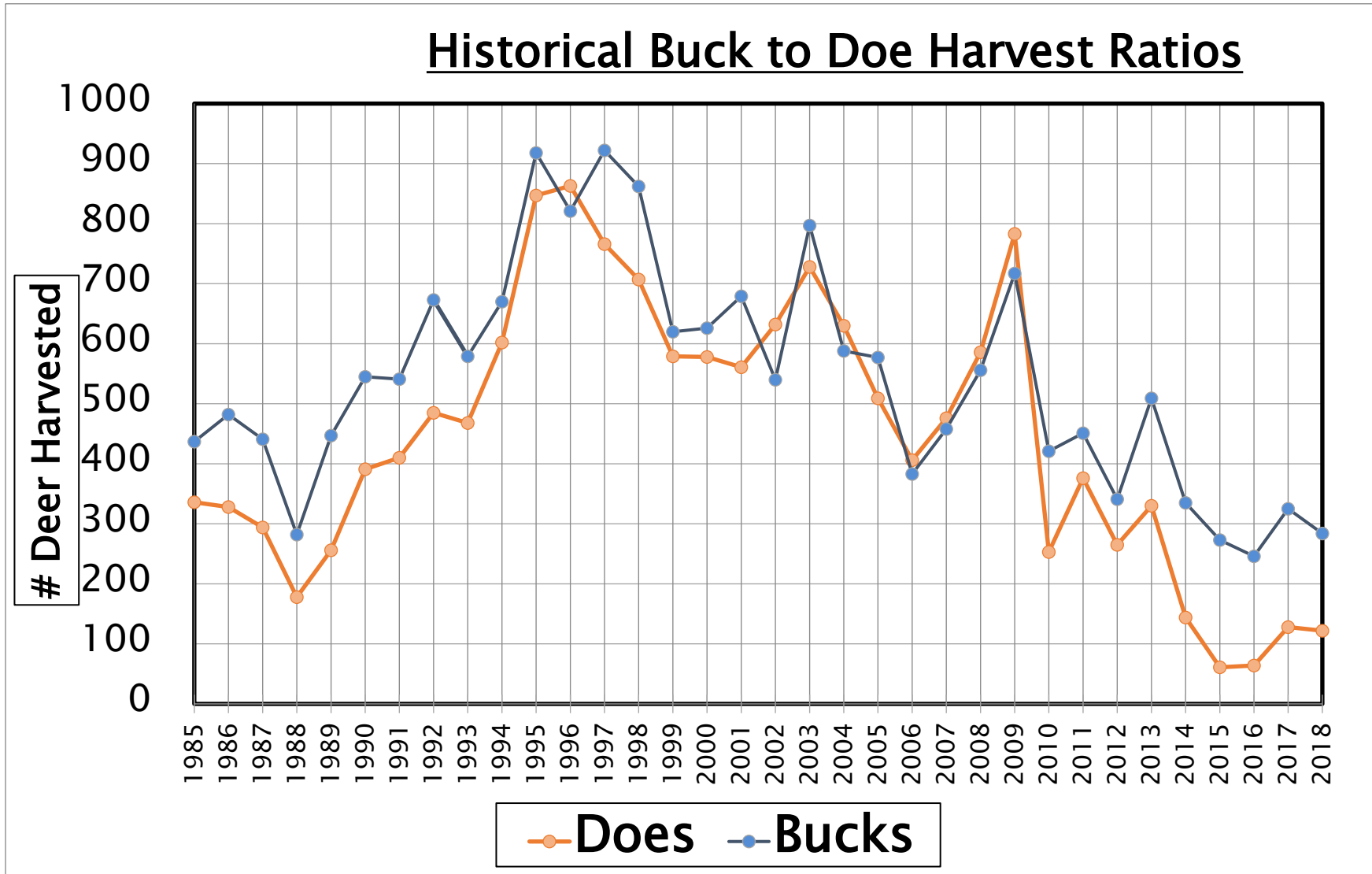


Chart 6: Yearling Weights and White Oak Mast Survey

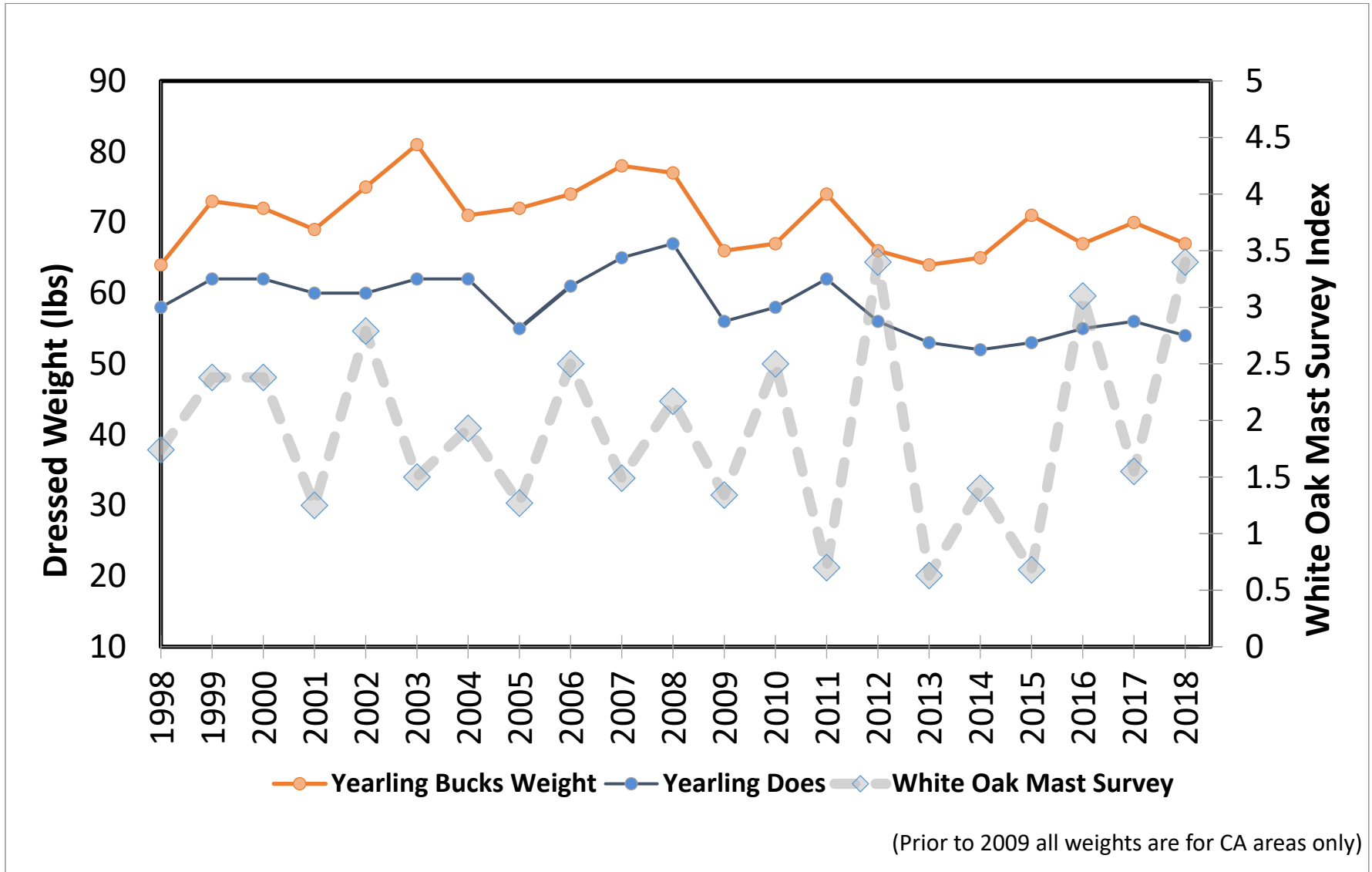


Table 10: Reproductive Statistics Comparison

	2018-2019	2017-2018	2016-2017
Fawn to Doe Ratio: # of fawns per bearing age (2.5+ yr old) doe harvested	0.24	0.50	0.43
% Fawns in antlerless harvest	17.2%	27.5%	24.7%
% Fawns in the total deer harvest	5.2%	9.3%	6.1%
Lactation Rate: for 2.5 yr olds	14.3%	61.5%	0.0%
Lactation Rate: for 3.5+ yr olds	58.3%	61.1%	27.3%

Chart 7: Comparison Hunting Trips

