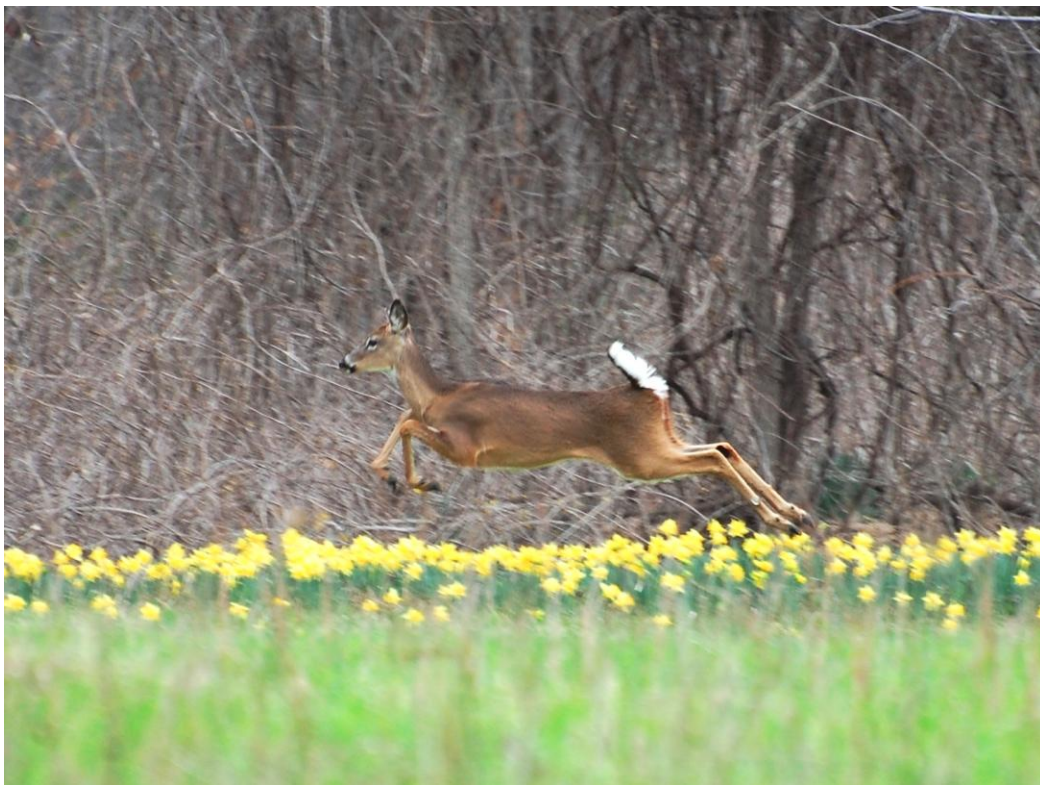


Deer Harvest Report

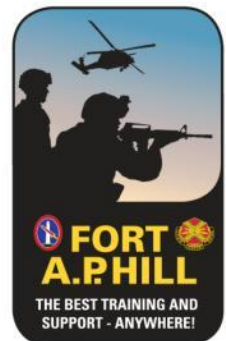
Fort A.P. Hill, VA

2012 – 2013



U.S. Army Garrison Fort A.P. Hill
Directorate of Public Works
Environmental and Natural Resources Division
Fisheries & Wildlife Branch

Date: March 2013



FORT A.P. HILL 2012-13 DEER SEASON REPORT

The 2012-13 deer season harvest for Fort A.P. Hill (FAPH) totaled 617. Of that number 341 (55.3%) were males and 265 (42.9%) were female. This year's harvest was a sharp decrease of 26% from last season's total of 827 and 9% lower than the 2010-11 total of 674. Those three years of data have the same generally season format, thus allowing an accurate comparison. The number of deer harvest per square mile of huntable land dropped 30% from 9.74 in 2011-12 to 6.8 in 2012-13. Weights for bucks that were 1.5 years old dropped from 73.8 lbs last season to 66.3 lbs this season. Twenty-seven percent of the antlered bucks killed had 8 or more points, which is down slightly from thirty-one percent last season. The highest number of points one inch or longer on a buck was 12.

The FAPH deer herd came out of last hunting season in promising shape. The winter of 2011-12 was favorable to the herd and the observed spring fawn crop was thriving with most mature does appearing to have had twin fawns. The oak acorn crop was some of the heaviest on record for FAPH providing plenty of nutritious acorns for the deer to fatten them up for the upcoming winter. Going into this season all indications were that the herd was growing slightly and in outstanding shape.

During the 2011-12 deer season the Virginia Department of Game and Inland Fisheries indicated that several counties near FAPH had severe deer die off as a result of an outbreak of epizootic hemorrhagic disease (EHD). At the time we felt fortunate that the outbreak had not included our FAPH deer herd. Records indicate it has been many years since EHD had resulted in a significant deer die off at FAPH. The EHD virus is considered cyclic and the severity of disease is determined by the overall deer herd's retained immunity. A deer herd's immunity lessens with each generation after an outbreak of EHD.

The first signs of trouble this season were not completely evident until muzzleloader season. It took that long before the "sloughing" hooves became obvious enough to draw our attention at the scales. By the regular gun season it was obvious FAPH had suffered a significant outbreak of EHD in August, September, and October. Some areas of FAPH appear to have been hit harder by EHD than others. Thirty-eight percent of the deer checked in exhibited signs of having survived hemorrhagic disease. When broken down by training areas (TAs) and controlled access areas (CAs) the TAs fared much worse. Forty-seven percent of the deer from the TAs had sloughing hooves compared to thirty percent from the CAs. Eight TAs that had a low harvest rate combined with a high percentage of EHD infected deer was closed to hunting during the final either sex deer hunting portion of the season to reduce impacts to deer numbers in those areas.

The harvest of 617 deer was far below expectations. Going into this summer all indications were that the herd was in excellent condition and populations were rising slightly. A harvest close to 1000 deer was anticipated. Even with the excellent acorn crop deer weights were down this season because so many deer were recuperating from the virus. FAPH deer herd population recovery from EHD is a complex issue. Unfortunately, it appears that a significant portion of the does, that survived EHD, were still very ill during the traditional breeding period and did not breed or become pregnant during that time. Also during this period surviving bucks were also very ill and that may have also impacted breeding success. Late in the deer season it was evident that some of the does not

breed because of illness were coming into heat. When EHD severely impacts a herd it takes years to recover because of the affects on breeding and offspring, which can last for generations. Combine this blow to the herd along with the growing predation on deer by an established and expanding coyote population, it will take longer for deer numbers to recover. Future regulation recommendations will be formulated to support recovery of the FAPH deer population.

If fears are realized and does do have a fawning period that is extended for weeks or months it will result in a higher percentage of fawns being vulnerable to predation by coyotes, bobcats, bears, and free roaming dogs. A healthy deer herd typically will give birth to fawns during the same general period (most the same week), thus over saturating the woods with fawns at the same time allowing predators only a short window of time to prey upon fawns before they can keep up with other mature deer. Studies have shown that the majority of predation on fawns is within the first two weeks after birth. The odds of a fawn dying as a result of predation beyond two weeks of age drops dramatically. The higher the percentage of predation on future year's fawn crops, the longer the recovery period of the FAPH deer herd population. Compounding the results of hemorrhagic disease is that late born fawns that survive are at a disadvantage that takes years to overcome. Late born doe fawns have low weights at 1.5 years old and may not come into heat. Even as 2.5 year old mature does they are more likely to only have one fawn. Bucks born late are less likely to contribute genetically to the herd than a spring born fawn because of their late maturity.

Sincere thanks to all the hunters that passed along their field observations to FAPH biologists. Hemorrhagic disease can kill a deer very quickly and a hunter might walk up on a deer that appeared very healthy that just "dropped dead". Some individuals develop a chronic form of the disease that causes emaciation, lethargic movements, and high fever. Hunters were encountering deer in late season that were still sick, possibly from other illnesses that attacked the susceptible deer's lowered immune system. It does appear that many areas throughout Virginia also suffered from an EHD outbreak this past year.

For the second year in a row a bear was harvested on FAPH during the bow season. The 145lbs/dressed weight bear was killed in the controlled access areas on October 22. We have had more bear sightings this year than previous seasons and it is anticipated that these sightings will continue to increase as bears become established residents in our region. We did not receive any feral pig sightings this past year. That comes as a relief as there were sightings during the 2011-12 season on FAPH and in the surrounding areas.

In the coming months the Fish and Wildlife Branch will be asking for your participation in a hunter online survey. Information concerning this survey will be forwarded to our FAPH hunters via email. We look forward to seeing you during the upcoming spring gobbler turkey season beginning April 6 with the Youth Spring Turkey Hunt Day.

Table 1: Harvest Totals and Percentage by Area and Sex

	Harvest		% of Total Harvest
Males	345		55.9%
TA	232	67.2%	37.6%
CA	113	32.8%	18.3%
Females	272		44.1%
TA	157	57.7%	25.4%
CA	115	42.3%	18.6%
Total Harvest	617		100.0%
TA	389		63.0%
CA	228		37.0%

Table 2a: Age Distribution

Age Class	Male		Female		Total	
	NO.	(%)	NO.	(%)	NO.	(%)
0.5 year-olds (Fawns)	64	18.6%	41	15.1%	105	17.3%
1.5 year-olds (Yearlings)	85	24.6%	53	19.5%	138	22.8%
2.5 year-olds	101	29.3%	58	21.3%	159	26.2%
3.5 year-olds	51	14.8%	44	16.2%	95	15.7%
4.5 year-olds	27	7.8%	39	14.3%	66	10.9%
5.5 year-olds	11	3.2%	19	7.0%	30	5.0%
6.5 year-olds	2	0.6%	13	4.8%	15	2.5%
7.5 year-olds	0	0.0%	2	0.7%	2	0.3%
8.5 year-olds +	0	0.0%	0	0.0%	0	0.0%
Unknown	4	1.2%	3	1.1%	7	1.2%
Totals	345		272		606	

Table 2b: Age Distribution Historical Comparison

Age Class	Male			Female			Total		
	2012-13	2011-12	2010-11	2012-13	2011-12	2010-11	2012-13	2011-12	2010-11
0.5 year-olds (Fawns)	18.6%	18.2%	11.6%	15.1%	29.8%	15.0%	17.3%	23.5%	12.9%
1.5 year-olds (Yearlings)	24.6%	21.7%	17.6%	19.5%	16.5%	13.4%	22.8%	19.3%	16.0%
2.5 year-olds	29.3%	21.7%	30.2%	21.3%	18.1%	29.2%	26.2%	20.1%	29.8%
3.5 year-olds	14.8%	23.1%	24.0%	16.2%	17.0%	20.6%	15.7%	20.3%	22.7%
4.5 year-olds	7.8%	9.1%	10.0%	14.3%	9.3%	11.9%	10.9%	9.2%	10.7%
5.5 year-olds	3.2%	4.4%	3.1%	7.0%	4.3%	5.9%	5.0%	4.4%	4.2%
6.5 year-olds	0.6%	0.9%	1.7%	4.8%	4.3%	2.0%	2.5%	2.4%	1.8%
7.5 year-olds	0.0%	0.2%	0.2%	0.7%	0.3%	1.2%	0.3%	0.2%	0.6%
8.5 year-olds +	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.1%	0.1%
Unknown	1.2%	0.7%	1.7%	1.1%	0.3%	0.4%	1.2%	0.5%	1.2%

Table 2c: Age Distribution Historical Comparison

Year	Bucks - Age %			Does - Age %		
	0.5	1.5	2.5+	0.5	1.5	2.5+
2010	12%	18%	71%	15%	13%	72%
2011	18%	22%	60%	30%	16%	54%
2012	19%	25%	57%	15%	19%	65%

Table 3: Statistics for Females

Age Class	Dressed Weight		Lactation Rates (October)	
	Avg.	No.	Percent	No.
0.5 year-olds (Fawns)	30.5	41	-	-
1.5 year-olds (Yearlings)	55.6	53	-	-
2.5 year-olds	63.8	58	55.6%	5
3.5 year-olds +	71.4	117	44.4%	4

Table 4: Fawn & Yearling Statistics

	2012-13	2011-12	2010-11
Fawn to Doe Ratio # of fawns per bearing age (2.5+ yr old) doe harvested	0.60	0.97	0.48
% Fawns in total antlerless harvest	31.9%	41.3%	28.2%
% Fawns Total in the total deer harvest	17.0%	23.5%	12.9%
AARRF * % yearling females in the adult female deer harvest	23.2%	23.6%	15.9%
AARRM % yearling males in the adult antlered buck harvest	30.7%	27.0%	20.3%

* Average Annual Reduction Rate (AARR) – For herd trends biologists monitor females 1.5 yrs old and the data roughly interprets; 30% represents a stable herd, > 30% the herd is increasing, and < 30% the herd is decreasing.

Table 5: 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	18.6%	36.7	64	-	-	-	-	-	-	-	-
1.5 year-olds	24.6%	66.3	85	2.7	83	15.0	79	7.1	76	7.4	79
2.5 year-olds	29.3%	87.3	101	5.7	101	22.9	100	12.9	99	14.1	100
3.5 year-olds +	26.4%	107.9	91	7.6	90	31.8	91	17.8	91	19.6	91

Table 6: Buck Harvest by Area and Number of Antler Points

# of Points	Total		TA		CA	
	#	D	#	D	#	D
BB	57	0.67	42	0.62	15	0.85
1	1	0.01	0	0.00	1	0.06
2	58	0.68	49	0.73	9	0.51
3	13	0.15	9	0.13	4	0.23
4	34	0.40	26	0.39	8	0.45
5	20	0.24	11	0.16	9	0.51
6	45	0.53	28	0.42	17	0.97
7	30	0.35	20	0.30	10	0.57
8	60	0.71	33	0.49	27	1.54
9	5	0.06	0	0.00	5	0.28
10	8	0.09	5	0.07	3	0.17
11	2	0.02	1	0.01	1	0.06
12	1	0.01	1	0.01	0	0.00
13	0	0.00	0	0.00	0	0.00
SHED	0	0.00	0	0.00	0	0.00
D = Density (# deer harvested per square mile)						

Table 7: Antler Measurements

	2012-13				2011-12		
	Total	TA	CA		Total	TA	CA
# Antlered	277	183	94		357	250	107
# 8pt +	76	40	36		113	76	37
% 8pt +	27.4%	21.9%	38.3%		31.7%	30.4%	34.6%
Harvest Density (8pt+ per SQ Mi)	0.90	0.59	2.05		1.33	1.13	2.10
% 1.5 w/ Spikes	65.1%	66.2%	60.0%		51.6%	48.6%	60.9%
Avg 1.5 Beam Diameter (mm)	15.0	15.1	14.6		15.2	14.8	16.3
Avg 2.5+ Beam Diameter (mm)	27.1	27.0	27.4		28.3	27.5	29.8
Avg 1.5 Beam Length (in)	7.4	7.4	7.2		8.5	8.2	9.4
Avg 2.5+ Beam Length (in)	16.7	16.5	19.6		17.4	17.0	19.1
Avg 1.5 Outside Spread (in)	7.1	7.1	7.3		7.6	7.6	7.7
Avg 2.5+ Outside Spread (in)	15.2	15.2	15.3		16.2	15.7	17.2

Table 8a: 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	10	8	2	39.5	3	60.3	3	114.0	0	-	2	1	24.0	0	-	1	60.0	0	-
2	14	8	6	32.7	0	-	2	93.0	0	-	6	0	-	0	-	6	67.0	0	-
3	13	6	3	36.0	1	55.0	2	83.5	0	-	7	1	43.0	1	63.0	5	68.0	0	-
4	3	3	1	28.0	1	54.0	1	84.0	0	-	0	0	-	0	-	0	-	0	-
5	17	8	2	36.0	3	71.3	2	76.0	0	-	9	2	30.0	4	51.8	3	67.7	0	-
6	41	26	5	34.4	7	63.3	14	89.2	0	-	15	3	22.7	4	52.7	8	64.5	0	-
7	20	11	3	39.7	2	65.5	6	100.8	0	-	9	2	32.5	3	58.7	4	70.0	0	-
8	6	6	1	25.0	4	69.3	1	85.0	0	-	0	0	-	0	-	0	-	0	-
9	6	5	2	37.5	1	57.0	2	104.0	0	-	1	1	25.0	0	-	0	-	0	-
10	9	5	0	-	1	54.0	4	85.3	0	-	4	1	33.0	1	61.0	2	55.5	0	-
11	6	4	1	50.0	1	81.0	2	88.0	0	-	2	0	-	0	-	2	72.5	0	-
12	10	5	0	-	1	67.0	4	102.0	0	-	5	2	30.0	0	-	3	67.0	0	-
13	13	7	2	42.0	1	66.0	4	92.5	0	-	6	0	-	0	-	6	74.8	0	-
14	8	5	0	-	2	68.0	3	93.3	0	-	3	0	-	1	56.0	2	74.0	0	-
15	15	7	2	48.0	3	68.0	2	117.0	0	-	8	1	29.0	3	58.7	4	65.0	0	-
16	8	7	1	24.0	2	78.5	4	97.8	0	-	1	1	33.0	0	-	0	-	0	-
17	7	5	0	-	2	67.0	3	111.3	0	-	2	0	-	0	-	2	51.0	0	-
18	21	8	1	28.0	2	75.0	5	101.6	0	-	13	3	30.0	2	49.0	7	65.9	1	56.0
19	16	9	2	39.5	3	65.0	4	115.3	0	-	7	1	31.0	3	60.0	3	71.7	0	-
20	28	18	3	36.0	7	59.3	8	88.3	0	-	10	1	25.0	1	52.0	8	62.0	0	-
21	8	6	1	31.0	2	61.0	2	106.5	0	-	2	0	-	1	48.0	1	63.0	0	-
22	32	17	4	28.3	5	65.2	8	104.0	0	-	15	6	29.8	3	53.0	6	69.3	0	-
23	15	10	2	32.5	3	69.3	5	93.4	0	-	5	1	43.0	0	-	4	64.0	0	-
24	16	8	0	-	4	63.8	4	81.0	0	-	8	1	27.0	2	52.5	5	69.0	0	-
25	15	13	2	32.5	1	83.0	10	106.9	0	-	2	1	27.0	1	66.0	0	-	0	-
26	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-
27	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-
28	13	8	0	-	4	73.5	4	112.8	0	-	5	0	-	1	57.0	4	79.8	0	-
30	17	7	1	67.0	3	58.0	3	91.0	0	-	10	2	31.5	2	50.0	6	75.7	0	-
31	2	2	0	-	0	-	2	95.5	0	-	0	0	-	0	-	0	-	0	-
TA Total	389	232	47	35.8	69	65.7	114	97.4	0	NA	157	31	29.8	33	55.1	92	67.8	1	56.0
TOTAL	617	345	64	36.7	85	66.3	192	97.1	0	NA	272	41	30.5	53	55.6	175	68.9	3	64.7

Table 8b: 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	13	11	1	33.0	0	-	10	98.0	0	-	2	0	-	1	54.0	1	68.0	0	-
CA2	3	1	0	-	1	76.0	0	-	0	-	2	0	-	0	-	2	71.5	0	-
CA3	3	0	0	-	0	-	0	-	0	-	3	1	37.0	1	56.0	1	60.0	0	-
CA4	2	1	0	-	1	78.0	0	-	0	-	1	0	-	0	-	1	57.0	0	-
CA5	5	3	0	-	0	-	3	87.7	0	-	2	1	36.0	0	-	1	81.0	0	-
CA6	12	8	2	30.5	1	60.0	5	111.4	0	-	3	1	21.0	0	-	2	67.5	0	-
CA7	11	9	2	43.0	2	62.5	4	98.5	0	-	2	0	-	1	42.0	1	67.0	0	-
CA8	13	6	1	45.0	0	-	4	97.3	0	-	7	0	-	2	55.5	5	54.8	0	-
CA9	1	0	0	-	0	-	0	-	0	-	1	0	-	1	54.0	0	-	0	-
CA10A	3	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-
CA10B	6	1	0	-	0	-	1	98.0	0	-	9	1	31.0	0	-	7	70.0	1	66.0
CA11A	1	0	0	-	0	-	0	-	0	-	1	0	-	1	64.0	0	-	0	-
CA11B	1	0	0	-	0	-	0	-	0	-	1	0	-	1	55.0	0	-	0	-
CA12	8	2	1	47.0	1	94.0	0	-	0	-	6	3	33.7	1	60.0	2	72.0	0	-
CA13	10	3	0	-	1	61.0	2	86.0	0	-	7	0	-	1	55.0	5	71.2	1	72.0
CA14A	21	7	1	45.0	1	67.0	5	100.2	0	-	14	1	41.0	0	-	13	73.2	0	-
CA14B	13	5	3	38.3	0	-	2	103.5	0	-	8	1	21.0	1	66.0	6	72.7	0	-
CA15	16	7	0	-	0	-	7	93.9	0	-	9	0	-	3	50.7	6	72.5	0	-
CA16	0	0	0	-	0	-	0	-	0	-	0	0	-	0	-	0	-	0	-
CA17	19	6	0	-	1	52.0	5	101.6	0	-	13	0	-	2	59.5	11	75.5	0	-
CA18	3	2	0	-	0	-	2	83.0	0	-	1	0	-	0	-	1	57.0	0	-
CA19A	6	6	2	37.0	0	-	4	94.3	0	-	0	0	-	0	-	0	-	0	-
CA19B	11	5	0	-	1	59.0	4	92.8	0	-	6	1	37.0	1	59.0	4	61.0	0	-
CA20	4	1	0	-	1	74.0	0	-	0	-	3	0	-	0	-	3	74.7	0	-
CA21	9	5	0	-	1	72.0	4	93.8	0	-	4	0	-	0	-	4	63.8	0	-
CA22	8	5	1	46.0	1	62.0	3	86.3	0	-	3	0	-	0	-	3	70.0	0	-
CA23	13	10	1	43.0	2	67.5	7	92.6	0	-	3	0	-	1	69.0	2	86.5	0	-
CA24	3	1	0	-	0	-	1	108.0	0	-	2	0	-	1	53.0	1	69.0	0	-
CA25	5	4	2	35.5	0	-	2	95.5	0	-	1	0	-	0	-	1	57.0	0	-
CA26	4	3	0	-	1	85.0	2	100.0	0	-	1	0	-	1	59.0	0	-	0	-
CA27	1	1	0	-	0	-	1	111.0	0	-	0	0	-	0	-	0	-	0	-
CA Total	228	113	17	39.2	16	68.8	78	96.6	0	NA	115	10	32.5	20	56.4	83	70.1	2	69.0
TOTAL	617	345	64	36.7	85	66.3	192	97.1	0	NA	272	41	30.5	53	55.6	175	68.9	3	64.7

Table 9a: 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	10	5.60	2	1.12	3	1.68	3	1.68	0	-	1	0.56	0	-	1	0.56	0	-
2	0.875	14	15.99	6	6.85	0	-	2	2.28	0	-	0	-	0	-	6	6.85	0	-
3	1.318	13	9.86	3	2.28	1	0.76	2	1.52	0	-	1	0.76	1	0.76	5	3.79	0	-
4	0.351	3	8.54	1	2.85	1	2.85	1	2.85	0	-	0	-	0	-	0	-	0	-
5	2.864	17	5.93	2	0.70	3	1.05	2	0.70	0	-	2	0.70	4	1.40	3	1.05	0	-
6	3.714	41	11.04	5	1.35	7	1.88	14	3.77	0	-	3	0.81	4	1.08	8	2.15	0	-
7	3.563	20	5.61	3	0.84	2	0.56	6	1.68	0	-	2	0.56	3	0.84	4	1.12	0	-
8	2.197	6	2.73	1	0.46	4	1.82	1	0.46	0	-	0	-	0	-	0	-	0	-
9	2.253	6	2.66	2	0.89	1	0.44	2	0.89	0	-	1	0.44	0	-	0	-	0	-
10	2.170	9	4.15	0	-	1	0.46	4	1.84	0	-	1	0.46	1	0.46	2	0.92	0	-
11	1.524	6	3.94	1	0.66	1	0.66	2	1.31	0	-	0	-	0	-	2	1.31	0	-
12	3.349	10	2.99	0	-	1	0.30	4	1.19	0	-	2	0.60	0	-	3	0.90	0	-
13	2.005	13	6.48	2	1.00	1	0.50	4	2.00	0	-	0	-	0	-	6	2.99	0	-
14	1.563	8	5.12	0	-	2	1.28	3	1.92	0	-	0	-	1	0.64	2	1.28	0	-
15	2.495	15	6.01	2	0.80	3	1.20	2	0.80	0	-	1	0.40	3	1.20	4	1.60	0	-
16	2.069	8	3.87	1	0.48	2	0.97	4	1.93	0	-	1	0.48	0	-	0	-	0	-
17	1.225	7	5.71	0	-	2	1.63	3	2.45	0	-	0	-	0	-	2	1.63	0	-
18	2.958	21	7.10	1	0.34	2	0.68	5	1.69	0	-	3	1.01	2	0.68	7	2.37	1	0.34
19	3.161	16	5.06	2	0.63	3	0.95	4	1.27	0	-	1	0.32	3	0.95	3	0.95	0	-
20	4.533	28	6.18	3	0.66	7	1.54	8	1.76	0	-	1	0.22	1	0.22	8	1.76	0	-
21	3.739	8	2.14	1	0.27	2	0.53	2	0.53	0	-	0	-	1	0.27	1	0.27	0	-
22	3.910	32	8.18	4	1.02	5	1.28	8	2.05	0	-	6	1.53	3	0.77	6	1.53	0	-
23	3.245	15	4.62	2	0.62	3	0.92	5	1.54	0	-	1	0.31	0	-	4	1.23	0	-
24	1.995	16	8.02	0	-	4	2.00	4	2.00	0	-	1	0.50	2	1.00	5	2.51	0	-
25	4.472	15	3.35	2	0.45	1	0.22	10	2.24	0	-	1	0.22	1	0.22	0	-	0	-
28	1.989	13	6.54	0	-	4	2.01	4	2.01	0	-	0	-	1	0.50	4	2.01	0	-
30	1.211	17	14.04	1	0.83	3	2.48	3	2.48	0	-	2	1.65	2	1.65	6	4.96	0	-
31	0.752	2	2.66	0	-	0	-	2	2.66	0	-	0	-	0	-	0	-	0	-
TA Total	67.285	389	5.78	47	0.70	69	1.03	114	1.69	0	-	31	0.46	33	0.49	92	1.37	1	0.01
TOTAL	84.870	617	7.27	64	0.75	85	1.00	192	2.26	0	-	41	0.48	53	0.62	175	2.06	3	0.04

Table 9b: CA Harvest Density (D) per Huntability 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	13	9.93	1	0.76	0	-	10	7.64	0	-	0	-	1	0.76	1	0.76	0	-
CA2	0.487	3	6.16	0	-	1	2.05	0	-	0	-	0	-	0	-	2	4.11	0	-
CA3	0.319	3	9.41	0	-	0	-	0	-	0	-	1	3.14	1	3.14	1	3.14	0	-
CA4	0.669	2	2.99	0	-	1	1.50	0	-	0	-	0	-	0	-	1	1.50	0	-
CA5	0.667	5	7.49	0	-	0	-	3	4.50	0	-	1	1.50	0	-	1	1.50	0	-
CA6	0.589	11	18.66	2	3.39	1	1.70	5	8.48	0	-	1	1.70	0	-	2	3.39	0	-
CA7	1.234	11	8.91	2	1.62	2	1.62	4	3.24	0	-	0	-	1	0.81	1	0.81	0	-
CA8	0.398	13	32.63	1	2.51	0	-	4	10.04	0	-	0	-	2	5.02	5	12.55	0	-
CA9	0.338	1	2.96	0	-	0	-	0	-	0	-	0	-	1	2.96	0	-	0	-
CA10B	0.655	10	15.26	0	-	0	-	1	1.53	0	-	1	1.53	0	-	7	10.68	1	1.53
CA11A	0.368	1	2.72	0	-	0	-	0	-	0	-	0	-	1	2.72	0	-	0	-
CA11B	0.281	1	3.56	0	-	0	-	0	-	0	-	0	-	1	3.56	0	-	0	-
CA12	0.466	8	17.18	1	2.15	1	2.15	0	-	0	-	3	6.44	1	2.15	2	4.30	0	-
CA13	0.523	10	19.11	0	-	1	1.91	2	3.82	0	-	0	-	1	1.91	5	9.56	1	1.91
CA14A	0.544	21	38.62	1	1.84	1	1.84	5	9.20	0	-	1	1.84	0	-	13	23.91	0	-
CA14B	0.899	13	14.46	3	3.34	0	-	2	2.22	0	-	1	1.11	1	1.11	6	6.67	0	-
CA15	0.918	16	17.43	0	-	0	-	7	7.63	0	-	0	-	3	3.27	6	6.54	0	-
CA17	0.881	19	21.56	0	-	1	1.13	5	5.67	0	-	0	-	2	2.27	11	12.48	0	-
CA18	0.826	3	3.63	0	-	0	-	2	2.42	0	-	0	-	0	-	1	1.21	0	-
CA19A	0.738	6	8.14	2	2.71	0	-	4	5.42	0	-	0	-	0	-	0	-	0	-
CA19B	0.473	11	23.26	0	-	1	2.11	4	8.46	0	-	1	2.11	1	2.11	4	8.46	0	-
CA20	0.695	4	5.75	0	-	1	1.44	0	-	0	-	0	-	0	-	3	4.31	0	-
CA21	0.993	9	9.07	0	-	1	1.01	4	4.03	0	-	0	-	0	-	4	4.03	0	-
CA22	0.474	8	16.87	1	2.11	1	2.11	3	6.33	0	-	0	-	0	-	3	6.33	0	-
CA23	0.411	13	31.63	1	2.43	2	4.87	7	17.03	0	-	0	-	1	2.43	2	4.87	0	-
CA24	0.323	3	9.28	0	-	0	-	1	3.09	0	-	0	-	1	3.09	1	3.09	0	-
CA25	0.484	5	10.33	2	4.13	0	-	2	4.13	0	-	0	-	0	-	1	2.07	0	-
CA26	0.294	4	13.59	0	-	1	3.40	2	6.80	0	-	0	-	1	3.40	0	-	0	-
CA27	0.328	1	3.05	0	-	0	-	1	3.05	0	-	0	-	0	-	0	-	0	-
CA Total	17.585	228	12.97	17	0.97	16	0.91	78	4.44	0	-	10	0.57	20	1.14	83	4.72	2	0.11
TOTAL	84.870	617	7.27	64	0.75	85	1.00	192	2.26	0	-	41	0.48	53	0.62	175	2.06	3	0.04

Table 10a: 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	10	280	2932.06	28.0	293.21
2	14	217	2396.42	15.5	171.17
3	13	309	3113.07	23.8	239.47
4	3	88	969.41	29.3	323.14
5	17	326	3348.15	19.2	196.95
6	41	581	5495.60	14.2	134.04
7	20	457	4379.19	22.9	218.96
8	6	119	1065.37	19.8	177.56
9	6	199	1824.25	33.2	304.04
10	9	122	1541.55	13.6	171.28
11	6	77	691.92	12.8	115.32
12	10	191	2376.03	19.1	237.60
13	13	249	2353.18	19.2	181.01
14	8	308	2666.15	38.5	333.27
15	15	295	2923.99	19.7	194.93
16	8	254	2356.78	31.8	294.60
17	7	128	1600.14	18.3	228.59
18	21	363	3767.22	17.3	179.39
19	16	243	3622.12	15.2	226.38
20	28	515	5728.08	18.4	204.57
21	8	274	2695.22	34.3	336.90
22	32	382	3709.15	11.9	115.91
23	15	217	2095.85	14.5	139.72
24	16	313	3318.10	19.6	207.38
25	15	278	2699.80	18.5	179.99
26	0	0	0.00	-	-
27	0	0	0.00	-	-
28	13	184	1746.38	14.2	134.34
30	17	197	1877.58	11.6	110.45
31	2	41	392.32	20.5	196.16
TA Total	389	7207	73685.08	18.5	189.42
Total	617	9335	94132.10	15.1	152.56

Table 10b: 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	13	106	982.00	8.2	75.54
CA2	3	77	821.52	25.7	273.84
CA3	3	47	383.35	15.7	127.78
CA4	2	78	982.41	39.0	491.21
CA5	5	63	613.58	12.6	122.72
CA6	11	70	644.31	6.4	58.57
CA7	11	94	698.63	8.5	63.51
CA8	13	67	530.19	5.2	40.78
CA9	1	41	381.35	41.0	381.35
CA10A	0	0	0.00	-	-
CA10B	10	76	708.21	7.6	70.82
CA11A	1	25	208.72	25.0	208.72
CA11B	1	21	189.64	21.0	189.64
CA12	8	90	1324.41	11.3	165.55
CA13	10	86	723.88	8.6	72.39
CA14A	21	96	976.51	4.6	46.50
CA14B	13	112	1081.65	8.6	83.20
CA15	16	131	1220.87	8.2	76.30
CA16	0	5	36.27	-	-
CA17	19	85	897.51	4.5	47.24
CA18	3	59	514.30	19.7	171.43
CA19A	6	97	1094.96	16.2	182.49
CA19B	11	63	616.54	5.7	56.05
CA20	4	120	1111.84	30.0	277.96
CA21	9	78	701.69	8.7	77.97
CA22	8	65	563.90	8.1	70.49
CA23	13	89	674.54	6.8	51.89
CA24	3	37	329.57	12.3	109.86
CA25	5	66	630.69	13.2	126.14
CA26	4	55	485.76	13.8	121.44
CA27	1	29	318.22	29.0	318.22
CA Total	228	2128	20447.02	9.3	89.68
Total	617	9335	94132.10	15.1	152.56

Historical Data Comparison

Chart 1: Harvest Sex Ratio

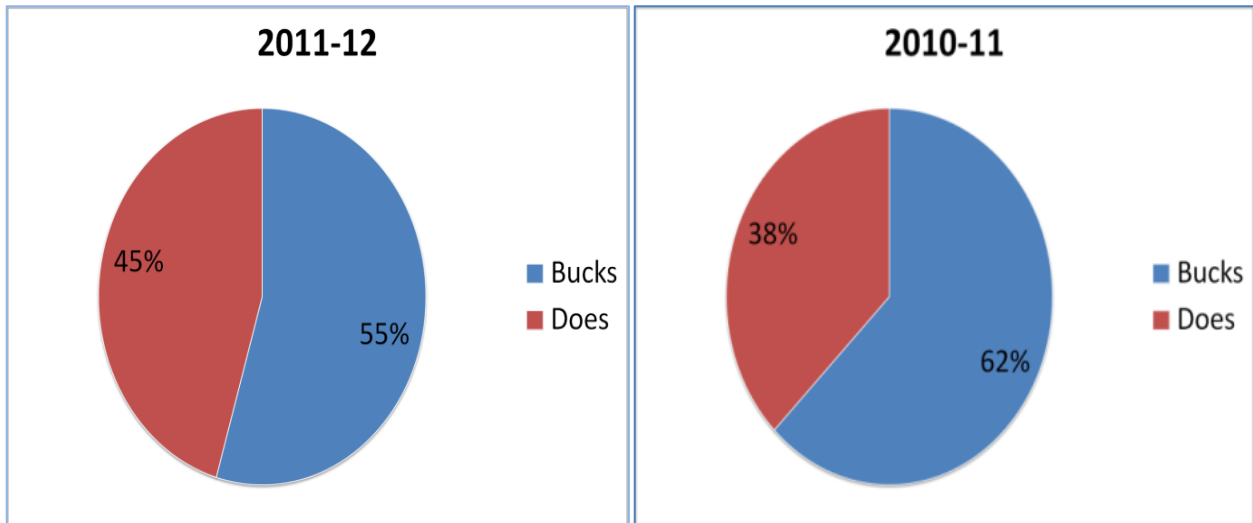
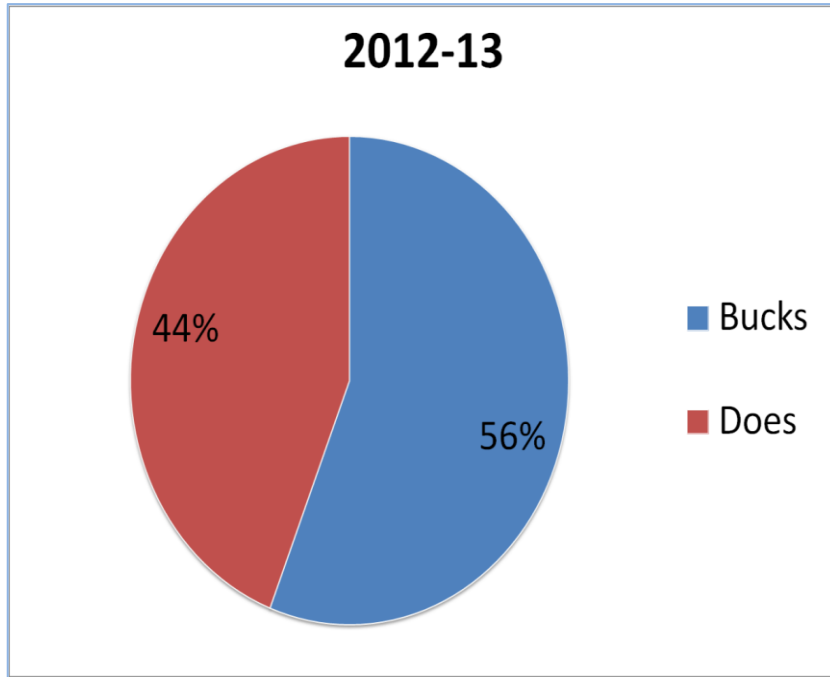


Chart 2: Harvest Age Structure

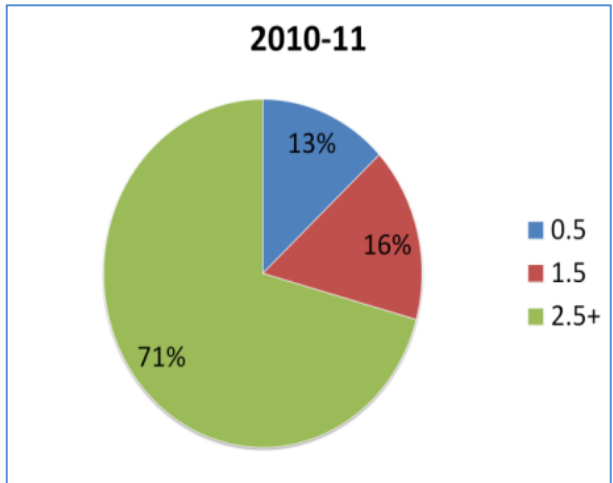
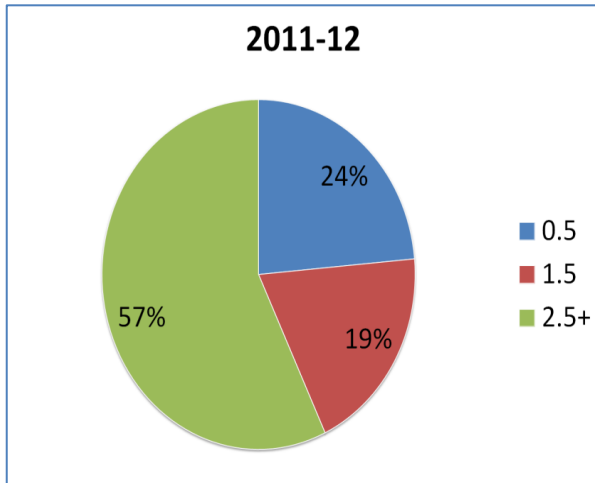
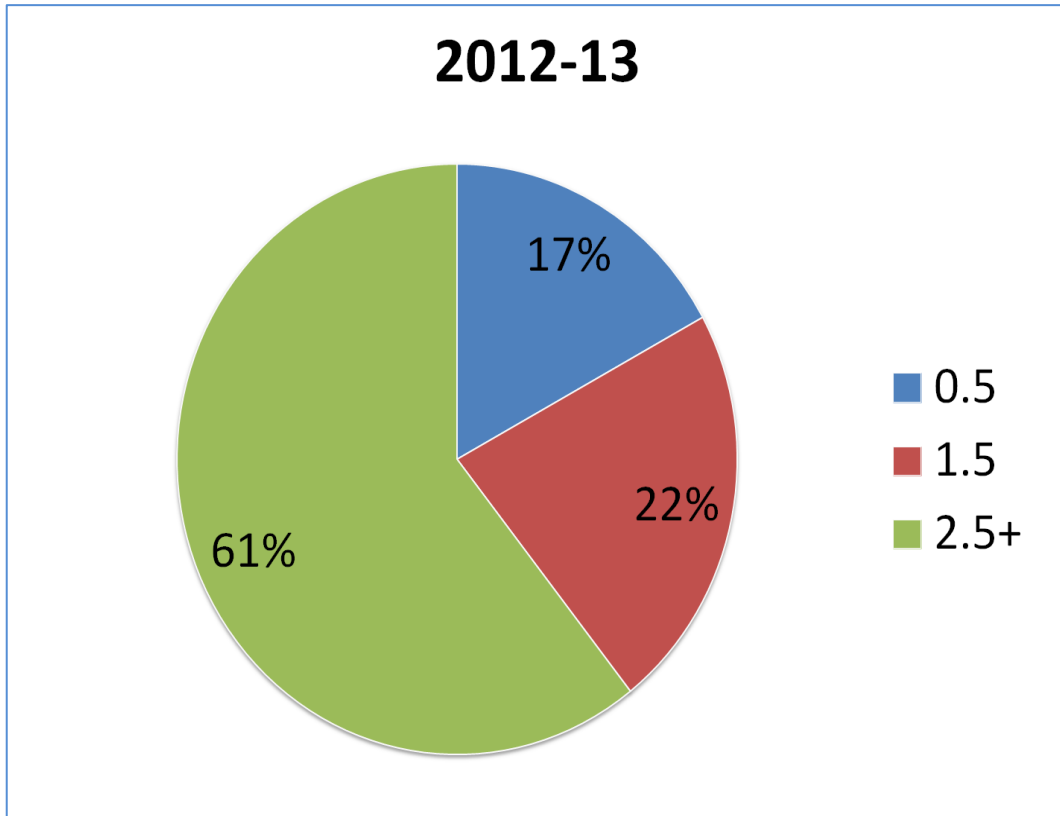


Chart 3: Training Area and Controlled Access Area Comparison

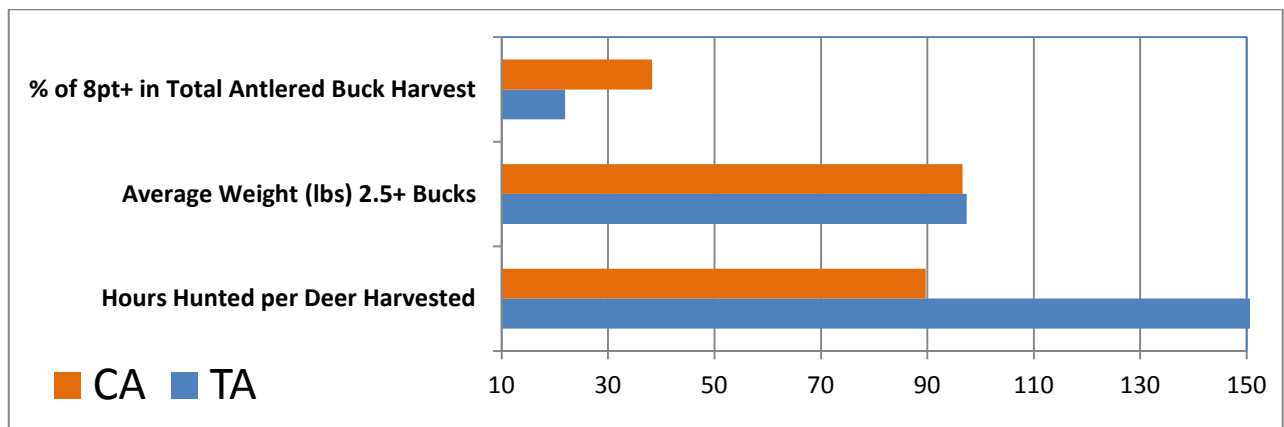
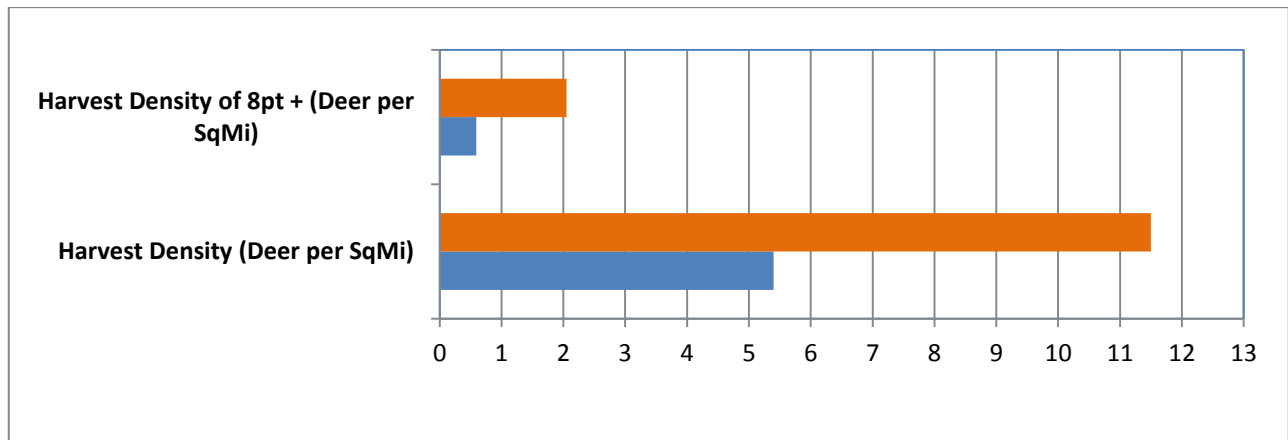
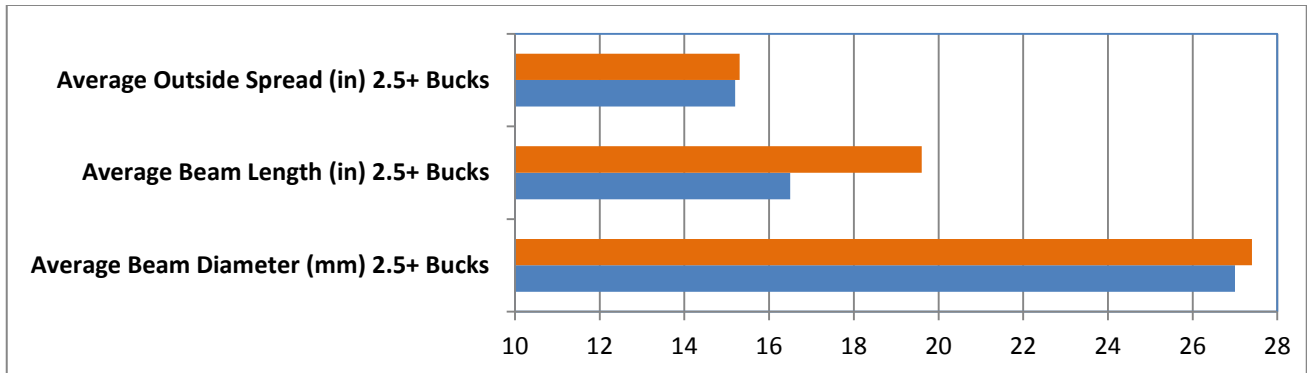


Chart 4: Historical Buck to Doe Harvest Ratios

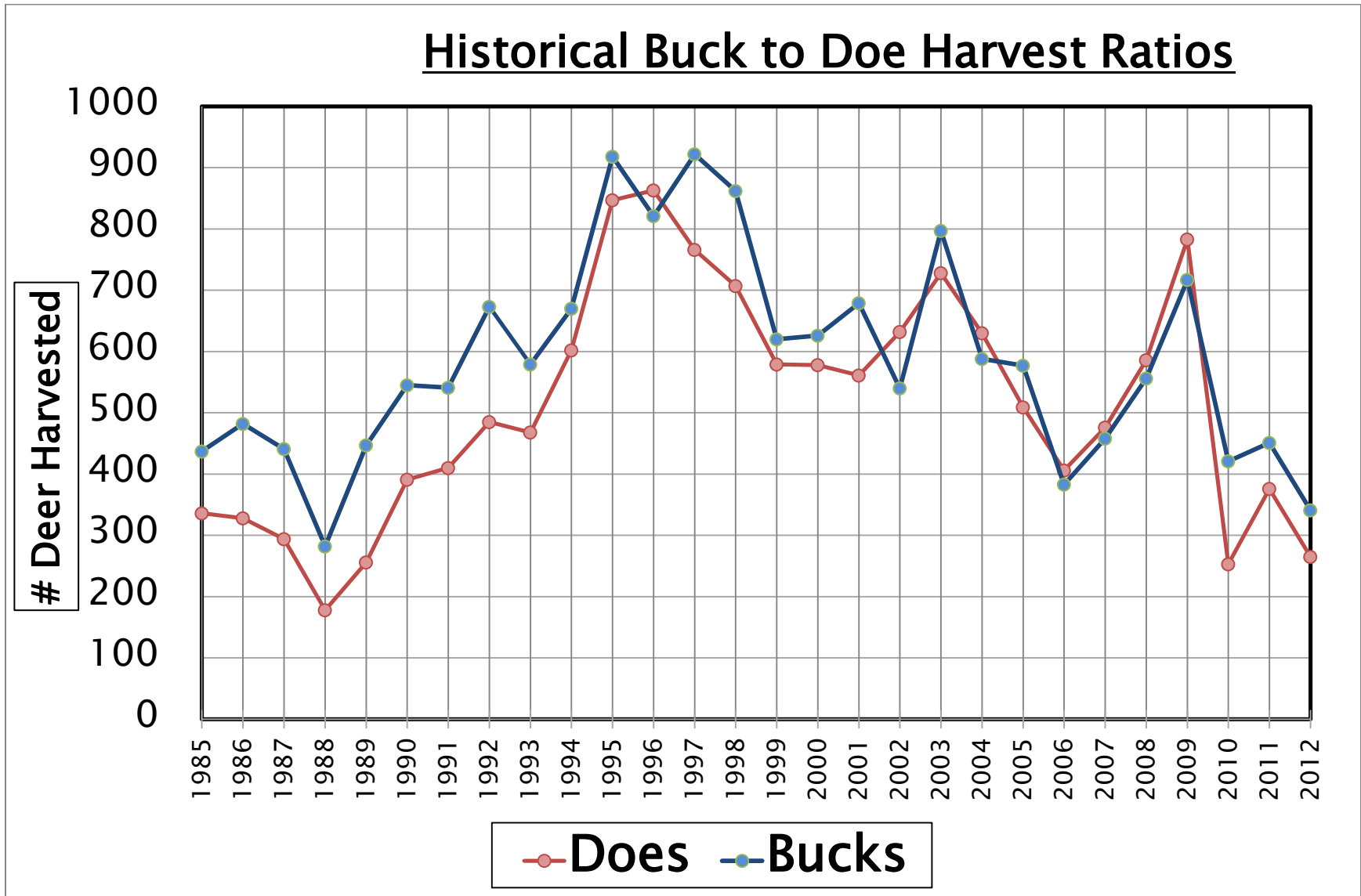


Chart 5: Yearling Weights and White Oak Mast Survey

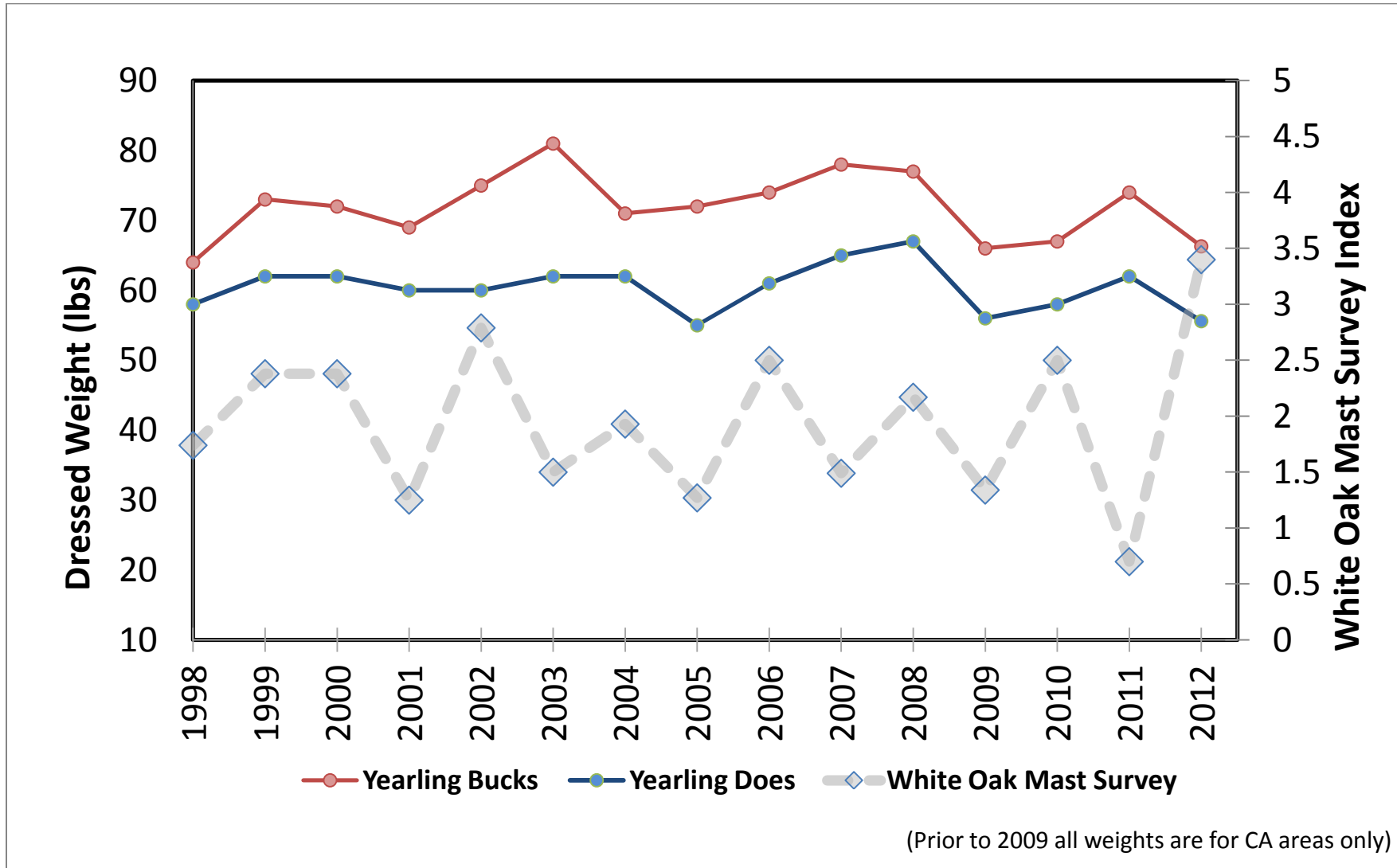


Table 11: Reproductive Statistics Comparison

	2012-13	2011-12	2010-11
Fawn to Doe Ratio: # of fawns per bearing age (2.5+ yr old) doe harvested	0.60	0.97	48.00%
% Fawns in antlerless harvest	31.9%	41.3%	28.2%
% Fawns in the total deer harvest	17.3%	23.5%	12.9%
Lactation Rate: for 2.5 yr olds	55.6%	66.7%	41.7%
Lactation Rate: for 3.5+ yr olds	44.4%	81.8%	57.9%

Chart 6: Comparison Hunting Trips

