

BIG CYPRESS NATIONAL PRESERVE

DEER AND HOG ANNUAL REPORT

1987-88

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EXECUTIVE SUMMARY

During the past several years a number of rules and regulations have been enacted on the Big Cypress National Preserve (BCNP) to either reduce white-tailed deer (Odocoileus virginianus) and wild hog (Sus scrofa) harvest or to reduce recreational pressure on the area. These actions have included reduced quotas, restrictions on all-terrain cycles (ATC's), restrictions on the use of dogs and increased antler length requirements on legal deer (five inch minimum antler length).

A result of these changes was a decline of approximately 20% for the combined deer and hog harvest during 1985, 1986 and 1987 compared to the two years (1983 and 1984) prior to the new regulations. Also during the same period, the number of man-days of hunting on the area declined by 27%.

Recently collected biological information indicates relatively low densities of deer and hog with apparent differences between units of BCNP. Generally, both deer and hogs are larger, heavier and healthier on Bear Island than other units and also occur at greater densities. Conflicting trends are often encountered in the data. For example, 1983-84 hog harvest was down slightly while deer harvest increased 40%. In 1985-86 deer harvest increased dramatically on Bear Island but declined elsewhere. In 1987-88 deer harvest rose 64% while hog harvest declined 9.8%. These differences reinforce the concept that all of the units are being affected by a variety of impacts including a wide range of hydrological conditions and fire history. Depending on circumstances, these and other factors may have a positive impact on one animal or area and a negative impact elsewhere.

INTRODUCTION

Deer and wild hog are important game animals on BCNP. Deer and hog hunting constitutes a significant component of recreation on the area (Jansen 1986). Deer and hog are also important food items for the Florida panther (Felis concolor coryi) (Belden 1983). The purpose of this report is to provide census, harvest and biological information collected on these species during 1987-88 on BCNP.

Hunting

Hunts were held as scheduled with deer and hog hunting permitted during Archery, (23 days) Muzzleloader (16 days) and General Gun (58 days) hunts. In addition to statewide rules these hunts were governed by specific regulations for BCNP (Appendix A). Major regulation changes were enacted for the 1985-86 hunt season and were continued through the 1987-88 season. These included: reductions in the number of quota permits, elimination of ATC's for hunting and a prohibition on the use of dogs for hunting beyond the nine day quota hunt in those units where use of dogs is permitted. Dogs used for deer and hog hunting are entirely prohibited in the Bear Island and Loop Road units.

In 1986-87, the minimum antler size for legal deer was increased from one inch to five inches. The intent of this rule was to eliminate the fawn age class from the legal harvest and to reduce illegal harvest pressure on the same age class. These actions were taken as safeguards since available information indicated that both activities exerted relatively mild pressure on this age class (Schortemeyer and McCown, 1986). These rules were continued through the 1987-88 season. For 1987-88 substantial reductions in small game and raccoon seasons were enacted but these changes had little impact on deer and hog hunting.

The opening date (Nov. 7) of the General Gun hunt on BCNP was one week before the statewide season. While staggered opening dates in the past have caused notable increases in hunting pressure no increases were observed this year on BCNP. Compliance with quota restrictions and existing high participation rates limited both the potential and actual response to this change.

For the second year check stations were operated less intensively than they were in the 1984-85 hunt season. Factors contributing to the decline in check station operations were restrictions limiting OPS check station operators to 40 hours of work per week and difficulties encountered in finding qualified applicants.

Lack of qualified applicants limited hours of operation and affected job performance during Archery and Muzzleloading seasons. During archery season both 40 Mile Bend and Bear Island were operated daily from 10 to 14 hours for a total of 80 hours. During muzzleloading season 40 Mile Bend was operated only on weekends while Bear Island was operated daily. As a result of an article in a travel trailer magazine, several qualified personnel were hired for General Gun season and check station operations improved dramatically. During the General Gun season both 40 Mile Bend and Bear Island were operated daily. In addition, check stations were operated on weekends at the Jetport and Monroe Station. Oasis Ranger Station also functioned as a check station during normal hours of operation. Overall, 1986-87 check station operations were comparable to the prior two years.

Environmental Conditions

Primary environmental factors affecting both deer and hog on BCNP are water levels and fire. Both of these factors may have a positive or negative impact

on deer and hog populations.

Figure 1 shows the general hydrological conditions for BCNP in April 1987. This map was generated during the monthly wading bird survey flown over the area. Hydrological conditions were classified as wet, transitional or dry. Classifications are determined by the amount of surface water present on the area: wet - 90% or more, transitional - between 5 and 90 percent and dry - less than 5%. Areas with greater than 10% of the area in upland habitat were classified as wet whenever 100% of the wetland areas were inundated. As indicated by Figure 1 the area showed wetter than normal conditions with a major portion of the area wet or transitional during the height of the dry season (April, 1987). During the remainder of the year wet conditions prevailed with only a mild dry down in early May. Figure 2 shows recorded water levels at NPS gauge P-34. This gauge, located near the S.E. corner of the Stairsteps unit, shows above average water levels for most of 1987.

Fires during 1987 burned approximately 24,500 acres. Prescribed fires account for most (21,500 acres) of the acreage burned during this period. Significant prescribed fires were conducted in the Bear Island unit, on pine islands in the central Monument unit and prairies along U.S. 41.

CENSUS DATA

Bear Island

Deer track counts have been conducted on Bear Island since 1977 (Table 1). Prior to 1984-85 track counts were done without preparation of the tracking surface. Four permanent transects were established in 1984 (Fig. 3). These transects are measured and divided into suitable and unsuitable tracking portions for each survey. Also, two of the transects are normally disc-harrowed to improve and standardize tracking conditions.

In the past pre- and post-hunt surveys have been conducted although the value of post-hunt surveys has been questioned for a number of years. The apparent reduction in the deer population indicated by pre- and post-hunt surveys in Table 1 for the 1984-85 and 1985-86 seasons averaged 192 and 520 animals, respectively. Survey data for 1986-87 indicated that the population increased by eight animals after the hunt season. As a result of these shortcomings and in an effort to standardize deer surveys within BCNP a recommendation was made to conduct annual surveys in May-June of each year. These plans were implemented in 1987.

In Bear Island high water levels persisted and the final post-hunt surveys were cancelled. The transects were still too wet in May 1987 but deer track counts were conducted without the normal disc-harrowing process. The results of all counts over the past three years are summarized in Table 2. Both of the recent surveys show a slight decline from the 1985-86 pre-hunt density estimate of one deer per 43 acres. Based on suitable transect length the 1986-87 pre- and post-hunt surveys indicate densities of one deer per 64 and 67 acres, respectively.

Monument

Deer track counts have been conducted in the Monument unit since 1981 (Table 3). Ten permanent transects were established in 1985 (Fig. 4). The suitable portions of these transects are re-measured each year and the total length adjusted to provide one mile of suitable tracking medium. Transects are run in May of each year. Track count data from the Monument unit suggest an increasing deer herd. As Table 1 indicates, tracks per one mile of transect have increased from a mean of 2.56 in 1985 and 2.80 in 1986 to 3.88 in 1987.

It appears that the increase in the Monument deer herd indicated by track count data is an absolute increase. The numbers of deer and amount of deer sign observed on the area by GFC personnel during the past year surpasses that of previous years. A possible explanation of this is the relatively dry springs of 1985 and 1986. It is believed that low water levels during fawning have a positive influence on survival. In contrast, the abnormally wet March of 1987 when rainfall was five times greater than average (8.1 inches vs. 1.6 inches) should negatively impact the 1987 fawn crop.

Stairsteps

Deer surveys have been conducted in the Stairsteps unit since 1978. Some track count surveys were conducted in the western portion of the unit while aerial surveys were the type most frequently conducted in the eastern portion (Table 5). The eastern portion of the Stairsteps is largely open Everglades marsh adjacent to Shark Slough. This portion of the Stairsteps comprises approximately 50,000 acres. Density estimates ranged widely with these surveys. Prior to 1985-86 the aerial surveys were flown on north-south transects at two mile intervals. In 1985, the methodology was changed to conform to standards developed by Everglades National Park for systematic reconnaissance flights (SRF). These standards include east-west transects flown at two kilometer intervals with the survey area divided into two kilometer square cells. This technique provides an opportunity to estimate both density and distribution (Fleming 1984). Figure 5 shows the eastern Stairsteps survey area.

Table 6 provides a summary of the results of pre- and post-hunt surveys conducted from 1984 through 1987. No post-hunt survey was conducted in 1984-85 as a result of aircraft scheduling conflicts. The mean number of deer

observed per mile of transect ranged from 0.38 to 0.64. Twenty-eight and 33 were observed on transect during two pre-hunt 1986 surveys. Deer density estimates for these surveys ranged from 1 deer per 180 acres (100% observed) to 1 deer per 61 acres (40% observed). The survey data indicate that the deer herd decreased slightly during the past year. The post-hunt 1987 survey indicates a decline to 0.39 deer observed per mile of transect. This type of decline has been noted in other aerial surveys in south Florida (Bob Ellis, pers. comm.) and is apparently a result of environmental and behavioral factors in addition to any seasonal declines in population which may occur.

Table 6 also provides the results of the first annual surveys conducted in late May and early June 1987 in the eastern Stairsteps unit. The number of deer observed on these two surveys were 4 and 2 respectively. These numbers are extremely low and indicate a population under 100 animals. Prior and subsequent observations on the area indicate that these population estimates are invalid. Abnormally wet conditions, other environmental conditions and unknown factors account for these low counts.

HUNTING

During all big game seasons only antlered deer were legal game. For the second year the minimum antler length was five inches. Wild hogs with a minimum shoulder height of 15 inches were also legal game. Hunting pressure on BCNP was estimated at 17,525 man-days for the Archery, Muzzleloading and General Gun seasons (Table 7). This represents a slight increase over the prior year. Deer harvest was up 63.0% (208) while hog harvest was down 9.8% (138). Hunter success (game checked/man-days) increased to 0.020. The increase in the deer harvest was approximately five times greater than the decrease in hog harvest. The increase in deer harvest is probably the result

of several factors. These factors include good fawning conditions in 1985 and 1986 and moderate water levels throughout the last 2 years. Secondly, the predicted decline in harvest during the first year of the five inch law should be only temporary in nature. Younger animals with 1 to 5 inch antlers should develop legal antlers the following year if adequate nutritional planes are achieved. Finally, and perhaps most important, hunting conditions were apparently optimal during the early part of the 1987 General Gun Season compared to the prior 2 years. Higher water conditions and other unknown factors had a positive influence especially in the first 16 days of General Gun Season (140 deer vs prior 2 yr. average of 79 deer).

Figure 6 shows hunter activity and checked harvest for each of the last eight years. Both pressure and overall harvest remained relatively constant during 1985-1986. Although hog and deer harvest fluctuated, hunter success remained constant for the past four years (1983-1986). Generally, declines in harvest by one species has been offset by increases in harvest for the other species. In 1987, however, overall harvest and hunter success increased dramatically while hunting pressure remained relatively constant (Table 7).

Table 8 summarizes deer and hog harvest by season compared to the average for the prior two years. Relatively low levels of harvest during Archery and Muzzleloading seasons approximate trends over the past two years. During General Gun season both deer and hog harvest exceeded the prior two year average.

Harvest and hunter pressure are compared by unit and season in Table 9. Generally, the trends for individual units follow the overall trends already discussed. The most pronounced increases in deer harvest occurred in the Stairsteps (118 up from 54) and Bear Island (39 vs 27). For the second

straight year hunting pressure increased on Bear Island. Mandatory check in and check out and other regulation changes should provide a better evaluation of this potential problem.

Archery Season

Archery season was open September 5 through September 27. This 23 day season was similar to recent archery seasons on the area. During the Archery season no deer and six hogs were checked (Table 10). Harvest was off 50% compared to the prior two year average. Hunting pressure was down slightly compared to the prior two year average.

Muzzleloading Season

For the fourth year Muzzleloading season was 16 days long (October 3 through October 18). A quota of 250 hunters was again established for the Bear Island unit during the first nine days. During the Muzzleloading hunt, activity was up 12% compared to the prior two year average, while overall harvest was down 12% (Table 11).

General Gun Season

The 58 day General Gun season opened on November 7, 1987, and closed on January 3, 1988. For the second year, antler requirements on deer were a minimum of five inches while other restrictions were similar to prior years. Hunter activity and harvest during the General Gun season are summarized in Table 12.

Hunter activity was estimated at 14,345 man-days up 2.5% from the prior two year average. Hog harvest was up 15% over the prior two year average while deer harvest was up significantly (56%). The combined harvest (309 was up 37%.

Between 1980 and 1982 several different methodologies were utilized to estimate hunter pressure. Efforts to measure use were intensified in 1983 and 1984. During these years a consistent effort was made to improve estimates of hunter use by combining check station information, vehicle surveys and other information (Jansen, 1986). Hunter use in 1987 was calculated by multiplying the 1984 hunter activity (base year) estimate by the ratio of the 1986 vehicle survey to the 1984 vehicle survey (base year). The results of the vehicle surveys are summarized in Appendix B. While the vehicle surveys do not directly measure hunter pressure they do provide a good index and therefore the trends over the past four years are accurately portrayed.

Figure 7 compares hunting pressure by week of General Gun season over the past four years. In general, use trends are highest during the first nine days and remain high through Thanksgiving weekend. Use levels decline after that until the end of the season. Use levels at the end of the season increase, but generally remain below levels in the first two weeks. Levels presented for the first week are actually only the estimated levels for the first two days (opening weekend). The remaining weeks cover a full seven day period. Overall, use levels were highest during the 1984-85 base year. Use restrictions enacted after the 1984-85 season reduced hunting pressure by 25-30% over the next 3 years.

WHITE-TAILED DEER BIOLOGICAL DATA

Herd Composition

The sex ratio of deer in the Monument unit and Bear Island as determined by approximately 600 spotlight observations made from August 1984 through June 1987 is 1:3.0 (buck to doe). The sex ratio in each area is similar.

Appendix C summarizes biological data collected on 133 male deer harvested during the 1987-88 season. These deer were aged by tooth wear and eruption (Severinghaus 1949). Age structure of the 1987-88 BCNP harvest continued its upward trend begun a year earlier. In 1986-87 the harvest declined for the 1.5 year age class and the fawn age class. In 1987-88 the fawn age class was not represented in the checked harvest and the 1.5 year age class accounted for 32% of the harvest. The 2.5 year age class constituted 52% of the harvest. The increase in antler length requirements to five inches appears to be primarily responsible for this shift in harvest to older age classes. Other factors, such as high survival of the 1985 fawn class could also contribute to the high representation of the 2.5 year age class. Based on initial results, the new regulation, now in its second year, appears to be effective.

Table 13 summarizes deer age structure by unit of harvest. The Stairsteps and Loop Road units have the highest portion (63 and 71% respectively) in the 2.5 year age class. Bear Island and Monument units have lower percentages in this age class, but they fall within expected values for hunted populations. Overall, the age structure data indicate good recruitment. This is also supported by field observations, surveys, and documented harvest.

Physical Characteristics

Table 14 summarizes antler characteristics and dressed weight by age class and unit of harvest. Overall, values in 1987-88 are similar to those reported in prior years. For example, average dressed weight of all animals fluctuated from 72 pounds in 1984 to 66 pounds in 1985 and was measured at 67 pounds in 1987. Likewise, antler circumference in 1987 was 5.6 cm compared to earlier measurements ranging from 5.3 to 6.1 cm.

Table 15 summarizes the occurrence of spikes by age class and unit of harvest. The overall percent spikes by age class has increased when compared to 1986-87. However, the five inch antler length limit was enacted in 1986-87 and the percent spikes in the harvest should stabilize at or near present levels. Based on field observations and the checked harvest, compliance with this regulation appears good.

Twenty-eight deer were collected from Bear Island (BI) and the eastern Monument unit (EMU) of Big Cypress National Preserve, the Fakahatchee Strand State Preserve (FS) and Collier Enterprise property (CE) during October 1987. Additionally, 18 hunter returned deer primarily from BI and the Fakahatchee Conservation Club (FCC) were examined (Table 16). Necropsies followed procedures of Nettles (1981). A physical condition value of 1-12 was assigned each animal according to muscling and coat qualities and levels of endogenous fat (Stockle et al 1978) (Table 17). Abomasal contents were removed and examined for parasites (Eve and Kellogg 1977).

Results, generally, indicated that CE deer were in better physical condition than deer from other areas. CE deer ranked highest in condition values (Fig. 8) and kidney fat indices (Fig. 9). These results suggest a physical condition gradient for these animals which has previously been noted for panthers (Roelke et al 1986). The physical condition of deer and panthers tends to improve north of State Road 84. This seems likely due to superior soils (Leighty et al 1954) and to management strategies of owners and lessees. The mean live body weight of 1.5 year old CE deer however was less than that of BI (Fig. 10). This is likely due to the extremely high density of the herd. Hillestad et al (1988) estimated a deer density on this portion of CE property of approximately 1 deer per 11.6 acres. The mean APC value of over

2550 (Fig. 11) for this herd suggests that the herd is likely exceeding the carrying capacity of the area. Three of 4 fawns collected from CE suffered from pathogenic levels of the abomasal parasite Haemonchus contortus. Available information suggests an intensity of infection of approximately 75 H. contortus per Kg body weight is the level at which the effects are detectable (Prestwood et al 1973). The three fawns were infected at levels between 122 and 164 H. contortus/Kg body wt. The mean APC value from adult deer in BI (629) and FS (495) indicates these herds continue to remain below carrying capacity while the herds in EMU and FCC exist somewhat closer to carrying capacity as indicated by mean APC values of 1060 and 1058, respectively.

Reproductive Status

Eighteen of twenty adult females sampled were pregnant with a 100% pregnancy rate in each area except FS. Twin fetuses were found in the single pregnant doe from FS. Twins were also found in one doe from each of the other study areas (Table 18). Conception dates ranged from July 16 (N=1) in FS to August 24 (N=5) in EMU with a regional mean of August 9. The projected mean parturition date is February 27.

WILD HOG BIOLOGICAL DATA

Whenever possible, biological data was collected from harvested hogs when they were examined at the check station. Parameters normally measured included weight, body length, tail length and shoulder height. Measurements were taken on approximately 502 of the 799 hogs checked over the past five years.

Table 19 summarizes average gutted weights and lengths for hogs harvested during the last four years. Average weights, length and shoulder height remained relatively constant. A slight increase in weight and shoulder height was noted for the 1985-86 year, although this was reversed in 1986 and 1987. With this exception the data appear to be consistent from year to year. In 1987-88 the average dressed weight of all hogs was 71 lbs. and the average shoulder height was 62 cm.

Table 20 compares physical characteristics of male and female hogs harvested over the last five years. Males were larger in every category. On average, males outweighed females by 38% or 23 pounds (83 pounds vs. 60 pounds). Average body length of males was 5% greater than females (118 cm vs. 112 cm) while shoulder height was 12% greater for males (65 cm vs 58 cm).

Table 21 compares physical characteristics of wild hogs harvested on Bear Island to those from the Stairsteps unit. Bear Island appears to be better habitat for wild hogs as well as deer. Many of the same factors are undoubtedly beneficial to both species. Surprisingly, during the 1986-87 hunting season the mean dressed weight for hogs from Stairsteps was greater than that from Bear Island. The decrease in mean dressed weight for Bear Island hogs in 1986 may indicate a heavy representation of younger animals in that harvest. In the 1987-88 harvest, hogs in Bear Island weighed 20 lbs. more than hogs taken from Stairsteps (Avg. Dressed Weight).

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Table 1. Population estimates for white-tailed deer in the Bear Island unit of the BCNP based on track count surveys, 1977-87.

Time of Survey	Source	Population Estimate	Density (deer:acre)
1986-87 Annual May	Schortemeyer & Ramsey 1987	214-545	1:171-67
1986-87 Pre hunt	Schortemeyer & Ramsey 1987	176-567	1:208-64
1985-86 Post hunt	Schortemeyer & Ramsey 1986	128-187	1:285-195
1985-86 Pre hunt	Schortemeyer & Ramsey 1986	513-842	1:71-43
1984-85 Post hunt (2 of 2)	Schortemeyer & Ramsey 1985	81-104	1:451-351
1984-85 Post hunt (1 of 2)	Schortemeyer & Ramsey 1985	62-123	1:589-297
1984-85 Pre hunt	Schortemeyer 1984	160-410	1:228-89
1983-84 Post hunt	McGrady & Jansen 1984 Bear Island Deer Track Counts	100	1:365
1983-84 Pre hunt	McGrady & Jansen 1984 Bear Island Deer Track Counts	461	1:79
1982-83 Post hunt	Pylant, memo, 11 April 1983	600	1:60
1982-83 Pre hunt	Pylant, memo, 30 Sept. 1982	713	1:51
1981-82 Post hunt	Pylant, memo, 21 April 1982	508	1:72
1980-81 Post hunt	Pylant, memo, 28 Dec. 1981	584	1:62
1979-80 Post hunt	Pylant, memo, 28 Dec. 1981	630	1:60

Table 1. continued

Time of Survey	Source	Population Estimate	Density (deer:acre)
1978-79 Annual May	Pylant, memo, 28 Dec. 1981	627	1:58
1977-78 Post hunt	Pylant, memo, 28 Dec. 1981	656	1:56
1977-78 Post hunt	Bowman, memo, 9 June 1978	657	1:56

Table 2. Number of deer tracks observed by transect and survey, Bear Island unit, 1984-87.

Survey	Transect #	No. of Deer Tracks by day			Total	Mean
		1	2	3		
Pre-hunt	1	2	6	6	14	4.7
Aug. 1984	2	2	2	5	9	3.0
	3	0	0	0	0	0.0
	4	3	6	1	10	3.3
					-----	-----
					33 (a)	2.75
Post-hunt	1	0	0	3	3	1.0
Feb. 1985	2	2	2	0	4	1.3
1 of 2	3	0	0	1	1	0.3
	4	2	2	1	5	1.7
					-----	-----
					13 (b)	1.1
Post-hunt	1	4	2	0	6	2.0
Feb. 1985	2	0	1	2	3	1.0
2 of 2(c)	3	0	0	0	0	0.0
	4	3	2	3	8	2.7
					-----	-----
					17 (d)	1.4
Pre-hunt	1	1	7	4	12	4.0
Sept. 1985(c)	2	2	8	5	15	5.0
	3	2	5	4	11	3.7
	4	23	30	22	75	25.0
					-----	-----
					108 (e)	9.4
Post-hunt	1	2	5	2	9	3.0
Feb. 1986(c)	2	2	10	0	12	4.0
	3	0	0	0	0	0.0
	4	2	0	4	6	2.0
					-----	-----
					27 (f)	2.3
Pre-hunt	1	3	6	0	9	3.7
Sept. 1986	2	1	1	0	2	0.7
	3	0	1	4	5	1.7
	4	8	9	4	21	7.0
					-----	-----
					37 (g)	3.1

Table 2. continued

Survey	Transect #	No. of Deer Tracks by day			Total	Mean
		1	2	3		
Annual	1	0	2	5	7	2.3
May 1987	2	11	12	6	29	9.7
	3	1	0	0	1	0.3
	4	0	7	1	8	2.7
					-----	-----
					45 (h)	3.8

- (a) Pre-hunt 1984-85 based on 12 miles of transect =
2.75 deer/ mile = 1 deer /230 acres;

Pre-hunt 1984-85 base on measured 8.24 miles of suitable
transect = 4.00 deer/mile = 1 deer/160 acres.

- (b) Post-hunt 1984-85 based on 12 miles of transect =
1.1 deer/mile = 1 deer/580 acres;

Post-hunt 1984-85 based on 6.04 miles of suitable
transect = 2.15 deer/mile = 1 deer/300 acres.

- (c) Transects #1 and #2 harrowed.

- (d) Post-hunt 1984-85 based on 12 miles of transect =
1.42 deer/mile = 1 deer/450 acres;

Post-hunt 1984-85 based on 9.28 miles of suitable
transect = 1.83 deer/mile = 1 deer/350 acres.

- (e) Pre-hunt 1985-86 based on 12 miles of transect =
9 deer/mile = 1 deer/71 acres;

Pre-hunt 1985-86 based on 7.31 miles of suitable
transect = 14.77 deer/mile = 1 deer/43 acres.

- (f) Post-hunt 1985-86 based on 12 miles of transect =
2.25 deer/mile = 1 deer/284 acres;

Post-hunt 1985-86 based on 8.24 miles of suitable
transect = 3.28 deer/mile = 1 deer/195 acres.

- (g) Pre-hunt 1986-87 based on 12 miles of transect =
3.08 deer/mile = 1 deer/208 acres;

Pre-hunt 1986-87 based on 3.72 miles of suitable
transect = 9.95 deer/mile = 1 deer/64 acres.

Table 3. Population estimates for white-tailed deer in the Monument unit of the BCNP, 1980-87.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1986-87 Post-fawning	Track Counts	McCown 1987	283,791	1720	1:165
1985-86 Post-fawning	Track Counts	McCown 1986	283,791	1260	1:225
1985-86 Pre-hunt	Aerial Counts	Schortemeyer 1985	283,791	280-385	1:1013-737
1984-85 Post-fawning	Track Counts	McCown 1985	283,791	1140	1:249
1984-85 Pre-hunt					
1983-84 Post hunt					
1983-84 Pre hunt					
1982-83 Post hunt	Track Counts	Pylant, memo, 11 April 1983	270,000	1268-2250	1:213-120
1982-83 Pre hunt					
1981-82 Post hunt	Track Counts	Pylant, memo, 21 April 1982	270,000	1080-1875	1:250-144
1980-81 Post hunt	Track Counts	Pylant, memo, 28 Dec. 1981	30,000	1620	1:185

Table 4. Number of deer tracks observed by transect and survey, Monument unit, 1985-87. (a)

SURVEY DATE	TRANSECT NUMBER	DAY							TOTAL	MEAN
		1	2	3	4	5	6	7		
May 1987	1	2	2	0	3	13	7		27	4.5
	2	0	10	7	8	7	5		37	6.2
	3	2	11	6	4	6	6		35	5.8
	4	2	6	9	5	12	3		37	6.2
	5	5	8	4	3	6	6		32	5.3
	6	4	0	2	1	8	4		19	3.2
	7	1	1	0	1	3	0		6	1.0
	8	0	2	2	2	3	3		12	2.0
	9	3	2	3	3	1	0		12	2.0
	10	1	1	3	1	6	4		16	2.7
									-----	-----
									233	3.88 (b)
May 1986	1	1	3	3	0	3	4	3	17	2.4
	2	4	7	7	5	5	1	3	32	4.6
	3	3	0	1	1	3	4	4	16	2.3
	4	2	1	3	1	1	4	2	14	2.0
	5	2	3	3	5	3	4	7	27	3.9
	6	4	4	4	5	2	5	3	27	3.9
	7	1	6	3	6	2	3	1	22	3.1
	8	1	3	3	2	2	0	2	13	1.9
	9	2	2	4	5	1	3	2	19	2.7
	10	1	1	0	3	3	1	3	12	1.7
									-----	-----
									199	2.85 (c)
May 1985	1	2	1	4					7	2.30
	2	4	3	2					9	3.00
	3	1	2	3					6	2.00
	4	2	1	1					4	1.33
	5	2	0	1					3	1.00
	6	8	6	7					21	7.00
	7	2	4	3					9	3.00
	8	4	1	1					6	2.00
	9	0	2	2					4	1.30
	10	3	1	4					8	2.70
									-----	-----
									77	2.56 (d)

(a) Track counts conducted in the Raccoon Point area.

(b) 1987 Mean = 3.88 tracks/mile = 1 deer/165 acres.

(c) 1986 Mean = 2.85 tracks/mile = 1 deer/225 acres.

(d) 1985 Mean = 2.56 tracks/mile = 1 deer/250 acres.

Table 5. Population estimates for white-tailed deer in the Stairsteps unit (eastern portion) of the BCNP, 1977-87.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1987 Annual (1 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	38-76	1:661-1322
1987 Annual (2 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	19-38	1:1322-2644
1986-87 Post-hunt	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	250-500	1:200-100
1986-87 Pre-hunt (2 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	330-660	1:152-76
1986-87 Post-hunt (1 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	280-560	1:180-90
1985-86 Post-hunt	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	240-480	1:210-105
1985-86 Pre-hunt	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	410-820	1:120-60
1984-85 Post-hunt					
1984-85 Pre-hunt	Aerial Counts	Schortemeyer 1984	50,000	422-792	1:118-63
1984 Post Production (2 of 2)	Aerial Counts	Schortemeyer 1984	50,000	117-220	1:427-227
1984 Post Production (1 of 2)	Aerial Counts	Schortemeyer 1984	50,000	70-132	1:714-379
1983-84 Post-hunt	Aerial Counts	McGrady & Jansen 1984 Big Cypress WMA	50,000	123-246	1:407-203

Table 5. continued

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1983-84 Pre-hunt	Aerial Counts	McGrady & Jansen 1984 Big Cypress WMA	50,000	158-317	1:316-158
1982-83 Post-hunt	Aerial Counts	Pylant, memo, 11 April 1983	50,000	379-543	1:132-92
1982-83 Pre-hunt	Aerial Counts	Pylant, memo, 30 Sept. 1982	50,000	833-1190	1:60-42
1981-82 Post-hunt	Track Counts	Pylant, memo, 21 April 1982	50,000	171	1:135
1980-81 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981	141,800	1013	1:140
1979-80 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981	140,300	954	1:147
1978-79 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981	140,000	954	1:147
1977-78 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981	141,000	1102	1:128
1977-78 Post-hunt	Track Counts	Bowman, memo, 9 June 1978	140,600	743	1:190

Table 6. Number of deer observed per mile during aerial surveys of the eastern Stairsteps unit, 1984-87.

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Pre-hunt Aug. 1984	1	0	10	10	1.03
	2	0	3	3	0.31
	3	1	2	3	0.31
	4	0	2	2	0.21
				-----	-----
				18	0.46 (a)
Pre-hunt Aug. 1985	1 (55)	0	1	1	0.16
	2	3	2	5	0.81
	3	0	2	2	0.27
	4	6	9	15	1.72
	5	3	0	3	0.30
	6	1	4	5	0.51
	7	4	2	6	0.54
	8 (62)	1	3	4	0.36
				-----	-----
				41	0.64 (b)
Post-hunt Feb. 1986	1 (55)	0	0	0	0.00
	2	0	1	1	0.16
	3	2	1	3	0.40
	4	4	4	8	0.92
	5	2	2	4	0.40
	6	2	3	5	0.51
	7	0	0	0	0.00
	8 (62)	1	2	3	0.27
				-----	-----
				24	0.38 (c)
Pre-hunt Aug. 1986 (1 of 2)	1 (55)	0	0	0	0.00
	2	0	1	1	0.16
	3	0	7	7	0.95
	4	2	5	7	0.80
	5	2	0	2	0.20
	6	2	0	2	0.20
	7	0	3	3	0.27
	8 (62)	3	3	6	0.54
				-----	-----
				28	0.44 (d)

Table 6. continued

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Pre-hunt	1 (55)	0	1	1	0.16
Aug. 1986	2	2	0	2	0.32
(2 of 2)	4	7	9	16	1.83
	5	0	3	3	0.30
	6	0	2	2	0.20
	7	1	1	2	0.18
	8 (62)	3	4	7	0.63
				-----	-----
				33	0.52 (e)
Post-hunt	1 (55)	0	0	0	0.00
Feb. 1987	2	0	0	0	0.00
	3	0	0	0	0.00
	4	4	3	7	0.80
	5	4	0	4	0.40
	6	3	2	5	0.51
	7	3	0	3	0.27
	8 (62)	6	0	6	0.54
				-----	-----
				25	0.39 (g)
Annual	1 (55)	0	0	0	0.00
May, 1987	2	2	0	2	0.32
(1 of 2)	3	0	0	0	0.00
	4	0	1	1	0.11
	5	0	0	0	0.00
	6	0	0	0	0.00
	7	0	0	0	0.00
	8 (62)	0	1	1	0.09
				-----	-----
				4	0.06 (g)
Annual	1 (55)	0	0	0	0.00
May, 1987	2	0	0	0	0.00
(2 of 2)	3	0	0	0	0.00
	4	1	0	1	0.11
	5	0	0	0	0.00
	6	1	0	1	0.10
	7	0	0	0	0.00
	8 (62)	0	0	0	0.00
				-----	-----
				2	0.03 (h)

Table 6. continued

- (a) Density estimates based on 5.7% area coverage:
1. 100% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/1.00 = 1 \text{ deer}/158 \text{ acres},$
 $1 \text{ deer}/118 \text{ acres},$
 3. 50% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.50 =$
 4. 40% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.40 = 1 \text{ deer}/63 \text{ acres}.$
- (b) Density estimates based on 10% area coverage:
1. 100% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/124 \text{ acres},$
 2. 50% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/62 \text{ acres}.$
 3. 40% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/50 \text{ acres}.$
- (c) Density estimates based on 10% area coverage:
1. 100% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/209 \text{ acres},$
 2. 50% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/104 \text{ acres}.$
 3. 40% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/83 \text{ acres},$
- (d) Density estimates based on 10% area coverage:
1. 100% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/180 \text{ acres},$
 2. 50% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/90 \text{ acres}.$
 3. 40% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/72 \text{ acres}.$
- (e) Density estimates based on 10% area coverage:
1. 100% of animals observed: $.52 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/152 \text{ acres},$
 2. 50% of animals observed: $.52 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/76 \text{ acres}.$
 3. 40% of animals observed: $.72 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/61 \text{ acres}.$
- (f) Density estimates based on 10% area coverage:
1. 100% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/200 \text{ acres},$
 2. 50% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/100 \text{ acres}.$
 3. 40% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/80 \text{ acres}.$

Table 6. continued

(g) Density estimates based on 10% area coverage:

1. 100% of animals observed: $0.06 \text{ deer}/79.3 \text{ acres} \times 1/1.0$
1 deer/1,322 acres.
2. 50% of animals observed: $.06 \text{ deer}/79.3 \text{ acres} \times 1/.50 =$
1 deer/661 acres.
3. 40% of animals observed: $.06 \text{ deer}/79.3 \text{ acres} \times 1/.40 =$
1 deer/529 acres.

(h) Density estimates based on 10% area coverage:

1. 100% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/1.0$
1 deer/2,644 acres.
2. 50% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/.50$
1 deer/1,322 acres.
3. 40% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/.40$
1 deer/1,057 acres.

Table 7. Big Cypress National Preserve deer harvest, hog harvest and hunting pressure, 1980-88.

Year	No. of Man-days	No. of deer Harvested	No. of hogs Harvested	Hunter Success (a)
1980-81	14,240	103	81	0.013
1981-82	16,539	104	44	0.009
1982-83	18,625	145	141	0.015
1983-84	23,015	140	201	0.015
1984-85	24,360	205	195	0.016
1985-86	17,195	156	111	0.016
1986-87	17,290	127	153	0.016
1987-88	17,525	208	138	0.020

(a) Hunter Success = (deer and hog harvest)/man-days of hunting.

Table 8. Big Cypress National Preserve deer and hog harvest, and hunter success ratio by season.

DEER				
SEASON	No. Harvested		Hunter Succ. Ratio (a)	
	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.
Archery	0	4.5	0.000	0.003
Muzzleloader	20	17.0	0.012	0.009
General Gun	188	120.5	0.013	0.009
HOG				
Archery	6	7.0	0.004	0.005
Muzzleloader	11	20.0	0.006	0.010
General Gun	121	105.0	0.008	0.008

(a) Success ratio = no. of animals harvested/no. of man-days.

Table 9. Three-year comparison of documented deer and hog harvest, and hunter pressure on the Big Cypress National Preserve.

	DEER			HOG			HUNTER PRESSURE		
	85-86	86-87	87-88	85-86	86-87	87-88	85-86	86-87	87-88
Archery									
Bear Island	2	1	0	1	3	2	495	320	380
Deep Lake	0	0	0	0	0	0	60	10	40
Monument	1	0	0	2	4	1	410	430	545
Stairsteps	1	0	0	0	1	2	310	340	280
Loop	2	1	0	1	2	1	150	155	235
TOTAL	6	2	0	4	10	6	1425	1255	1480
Muzzleloading									
Bear Island	15	3	5	5	6	3	605	545	485
Deep Lake	0	0	0	0	0	0	60	60	115
Monument	3	1	3	13	5	2	670	680	585
Stairsteps	3	2	6	1	6	4	380	400	390
Loop	2	5	6	3	1	2	190	230	125
TOTAL	23	11	20	22	18	11	1905	1915	1700
General Gun									
Bear Island	30	23	34	20	25	32	2715	3060	3630
Deep Lake	1	1	4	2	0	0	485	395	525
Monument	30	20	25	6	19	13	5760	5265	5110
Stairsteps	51	52	112	41	63	55	3500	4080	4130
Loop	15	18	13	16	18	21	1405	1320	950
TOTAL	127	114	188	85	125	121	13865	14120	14345
COMBINED									
Bear Island	47	27	39	26	34	37	3815	3925	4495
Deep Lake	1	1	4	2	0	0	605	465	680
Monument	34	21	28	21	28	16	6840	6375	6240
Stairsteps	55	54	118	42	70	61	4190	4820	4800
Loop	19	24	19	20	21	24	1745	1705	1310
TOTAL	156	127	208	111	153	138	17195	17290	17525

Table 10. Archery season harvest summary Big Cypress National Preserve,
1987-88.

WEEK		DEER		HOG		HUNTER ACTIVITY (man-days)	
1987-88 dates		1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.
1	(9-5 to 9-6)	0	0.5	2	2.5	650	490
2	(9-7 to 9-13)	0	1.5	4	3.0	340	300
3	(9-14 to 9-20)	0	1.5	0	2.5	280	270
4	(9-21 to 9-27)	0	0.5	0	0.0	210	285
TOTAL		0	4.0	6	8.0	1480	1345

Table 11. Muzzleloader season harvest summary Big Cypress National Preserve, 1987-88.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1987-88 dates	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.
1 (10-4 to 10-5)	7	7.5	7	6.5	640	875
2 (10-6 to 10-12)	8	4.5	3	6.0	550	570
3 (10-13 to 10-19)	5	5.0	1	7.5	510	465
TOTAL	20	17.0	11	20.0	1700	1910

Table 12. General Gun season harvest summary, Big Cypress National Preserve, 1987-88.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1987-88 dates	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.	1987-88	Prior 2 yr. avg.
1 (11-8 to 11-9)	80	44.5	47	30.5	2580	2530
2 (11-10 to 11-16)	41	26.5	32	23.0	2785	2650
3 (11-17 to 11-23)	19	8.0	12	8.0	1275	1670
4 (11-24 to 11-30)	16	9.5	5	8.5	1835	1330
5 (12-1 to 12-7)	6	7.0	4	8.0	990	925
6 (12-8 to 12-14)	4	4.5	5	3.5	890	740
7 (12-15 to 12-22)	6	5.5	4	3.0	890	695
8 (12-21 to 12-28)	8	3.5	3	8.0	1320	1570
9 (12-29 to 1-4)	8	11.5	9	12.5	1780	1880
TOTAL	188	120.5	121	105.0	14345	13990

Table 13. Age structure of male white-tailed deer harvested on the Big Cypress National Preserve by unit of harvest, 1987-88.

AGE CLASS	BEAR ISLAND		MONUMENT		LOOP		STAIRSTEPS		ALL UNITS COMBINED	
	#	%	#	%	#	%	#	%	#	%
0.5	0	-	0	-	0	-	0	-	0	-
1.5	15	44.1	5	62.5	0	0.0	2	28.0	42	31.6
2.5	10	29.4	1	12.5	10	71.4	47	62.7	69	51.9
3.5	4	11.8	1	12.5	3	21.4	5	6.7	13	9.8
4.5	3	8.8	1	12.5	1	7.1	0	-	5	3.8
5.5+	2	5.9	0	-	0	-	2	2.7	4	3.0
Sample Size	34		8		14		75		133(a)	

(a) Includes 2 deer from Deep Lake unit.

*should this
be 21?*

Errors in Totals also

Table 14. Weight and antler characteristics of male deer harvested during 1987-88, Big Cypress National Preserve.

AGE CLASS	SAMPLE SIZE					DRESSED WEIGHT (LBS.)				
	I (a)	III	IV	V	ALL	I	III	IV	V	ALL
0.5	-	-	-	-	-	-	-	-	-	-
1.5	11	4	-	15	31	66	60	-	61	63
2.5	9	1	7	28	46	71	60	69	65	68
3.5	3	0	2	3	8	81	-	65	57	68
4.5	2	-	-	-	2	96	-	-	-	96
5.5+	1	-	-	2	3	105	-	-	62	76
TOTAL	26	5	9	48	90	73	60	68	63	67

AGE CLASS	AVERAGE ANTLER (RIGHT) CIRCUMFERENCE (cm.)					AVERAGE MAIN BEAM (RIGHT) BEAM LENGTH (cm.)					AVERAGE NUMBER OF POINTS				
	I	III	IV	V	ALL	I	III	IV	V	ALL	I	III	IV	V	ALL
0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1.5	4.6	4.8	---	5.0	4.8	16.2	16.3	---	15.9	16.3	2.4	3.5	---	2.9	2.9
2.5	5.5	5.0	5.7	5.5	5.6	20.2	15.5	21.4	19.7	20.2	3.2	2.0	4.1	3.9	3.8
3.5	6.1	9.4	5.9	5.9	6.2	24.7	37.3	21.0	21.7	24.0	4.8	8.0	3.0	5.3	4.9
4.5	8.1	9.1	---	---	8.4	39.3	38.8	---	---	39.1	6.7	9.0	6.0	---	7.0
5.5+	9.7	---	---	5.1	7.8	32.2	---	---	18.0	26.5	12.0	---	---	2.0	7.0
TOTAL	5.6	6.0	5.7	5.4	5.6	21.6	22.0	21.3	18.8	20.2	3.7	4.7	4.1	3.7	3.8

(a) Units: 1 = Bear Island, III = Monument, IV = Loop, V = Stairsteps

Table 15. Number of spikes, percent spikes and average main beam length of adult deer harvested on the Big Cypress National Preserve, 1987-88.

AGE CLASS	NUMBER OF SPIKES					% SPIKES IN AGE CLASS					MAIN BEAM LENGTH OF SPIKES (inches)			
	I(a)	III	IV	V	ALL	I	III	IV	V	ALL	0-1	1-3	3-5	>5
1.5	10	2	--	11	23	83.3	50.0	--	61.1	65.7	---	---	6	17
2.5	5	1	3	10	19	50.0	100.0	37.5	24.4	31.2	---	---	2	17
3.5	1	---	1	--	2	25.0	---	50.0	---	20.0	---	---	---	2
4.5	---	---	--	--	--	---	---	--	---	---	---	---	---	--
5.5+	---	---	--	1	1	---	---	--	100.0	50.0	---	---	---	1

(a) Units: I = Bear Island, III = Monument, IV = Loop, V = Stairsteps.

Table 16. Morphometric values of collected deer; October, 1987.

NO.	AREA (a)	SEX	AGE	WT. (kg)	T LENGTH (cm)	TAIL (cm)	GIRTH (cm)
197	EMU	F	2.5	69.0	137.0	23.0	74.5
198	EMU	F	1.5	61.0	133.0	22.5	81.0
199	EMU	F	2.5	85.0	-	-	-
200	EMU	F	1.5	64.0	130.0	21.5	69.0
201	EMU	F	1.5	64.0	136.5	23.0	69.0

202	FS	F	1.5	75.0	138.0	22.0	70.0
203	FS	F	2.5	75.0	124.0	24.5	66.5
204	FS	F	1.5	67.0	138.0	31.0	68.0
205	FS	M	1.5	82.0	149.0	29.0	74.0

206	BI	F	4.5	94.0	148.5	25.0	-
207	BI	M	2.5	80.0	145.0	22.0	73.5
208	BI	F	4.5	91.0	155.0	25.0	80.0
209	BI	F	5.5	90.0	148.0	23.0	72.0
210	BI	F	0.5	56.0	139.0	23.0	66.5
211	BI	F	1.5	105.0	150.0	24.0	68.0
212	BI	F	2.5	86.0	137.0	18.5	79.5
213	BI	F	1.5	72.0	139.0	23.0	65.0

214	CE	F	0.5	35.0	119.0	21.0	58.0
215	CE	F	0.5	51.0	123.0	20.0	61.0
216	CE	F	3.5	79.0	142.5	23.0	82.5
217	CE	F	1.5	73.0	134.0	21.0	69.0
218	CE	M	1.5	94.0	155.0	25.0	80.5
219	CE	F	3.5	90.0	140.0	22.0	80.0
220	CE	M	0.5	50.0	138.0	23.0	63.0
221	CE	F	2.5	70.0	149.0	22.0	71.0
222	CE	F	3.5	84.0	148.0	22.0	76.5
223	CE	F	3.5	88.0	146.0	20.5	75.5
224	CE	F	0.5	45.0	124.0	22.0	61.5

238	FCC	M	2.5	89.0	151.0	25.0	70.0
239	FCC	F	5.5	90.0	163.0	30.0	74.0
240	FCC	F	1.5	65.0	127.0	24.0	65.0
241	FCC	M	1.5	80.0	150.0	24.0	71.0
242	FCC	F	4.5	90.0	143.0	26.0	77.0

(a) BI = Bear Island Unit
 CE = Collier Enterprises
 EMU = Eastern Monument Unit
 FCC = Fakahatchee Conservation Club
 FS = Fakahatchee Strand State Preserve

Table 17. Condition values for deer collected October, 1987.

NO.	AREA (a)	SEX	AGE	KFI	T FAT	H FAT	P FAT	K FAT	COND
197	EMU	F	2.5	10.8	L	L	L	L+	P
198	EMU	F	1.5	24.3	M	L+	M	M	G
199	EMU	F	2.5	23.5	L	M+	M+	H	G
200	EMU	F	1.5	13.7	L	M	M	L+	F
201	EMU	F	1.5	22.9	L+	-	-	M-	G-
202	FS	F	1.5	37.2	M	M	M+	H	G+
203	FS	F	2.5	35.0	M	M	M	M+	G+
204	FS	F	1.5	10.1	L+	L	L	L	F+
205	FS	M	1.5	15.0	M-	M	M-	L	F+
206	BI	F	4.5	29.5	M	M	M	M+	G
207	BI	M	2.5	9.3	L	L+	L	H	G+
208	BI	F	4.5	16.6	M	M	M+	M-	G
209	BI	F	5.5	23.9	M	M	M-	L+	G
210	BI	F	0.5	6.8	L+	L	L	L-	F-
211	BI	F	1.5	30.5	M	H	H	H	G+
212	BI	F	2.5	36.9	M+	M+	M+	H	E-
213	BI	F	1.5	10.0	L+	L	L	L	F
214	CE	F	0.5	7.1	L+	L-	L-	L	F+
215	CE	F	0.5	7.0	L+	L	L	L	F
216	CE	F	3.5	31.0	H	M+	M+	H	G+
217	CE	F	1.5	14.0	L	M-	M-	M-	G
218	CE	M	1.5	7.3	L	L	L+	L-	F-
219	CE	F	3.5	38.9	H	M-	-	H	G+
220	CE	M	0.5	8.2	L	L	L	L	F-
221	CE	F	2.5	25.4	M	H	H	H	E-
222	CE	F	3.5	46.5	F	H	M+	H	E
223	CE	F	3.5	21.2	M	H-	H-	M+	G+
224	CE	F	0.5	7.3	L	L	L	L	F
238	FCC	M	2.5	6.6	-	L	L-	L	G
239	FCC	F	5.5	15.5	-	L	L	L	F
240	FCC	F	1.5	15.0	-	L	L+	L	F+
241	FCC	M	1.5	6.4	-	L	-	L	F+
242	FCC	F	4.5	14.3	L-	-	-	L	G

(a) EMU = Eastern Monument Unit
 FS = Fakahatchee Strand State Preserve
 BI = Bear Island Unit
 CE = Collier Enterprises
 FCC = Fakahatchee Conservation Club

Table 18. Reproductive status of collected deer October/November, 1987.

NO.	AREA (a)	AGE	PREG?	NO. FETUS
197	EMU	2.5	Y	1
198	EMU	1.5	Y	1
199	EMU	2.5	Y	2
200	EMU	1.5	Y	1
201	EMU	1.5	Y	1

202	FS	1.5	Y	2
203	FS	2.5	N	0
204	FS	1.5	N	0

206	BI	4.5	Y	1
208	BI	4.5	Y	1
209	BI	5.5	Y	2
211	BI	1.5	Y	1
212	BI	2.5	Y	1
213	BI	1.5	Y	1

216	CE	3.5	Y	1
217	CE	1.5	Y	1
219	CE	3.5	Y	1
221	CE	2.5	Y	1
222	CE	3.5	Y	2
223	CE	3.5	Y	1

239	FCC	5.5	N	0
240	FCC	1.5	Y	1
242	FCC	4.5	Y	2

(a) EMU = Eastern Monument Unit
 FS = Fakahatchee Strand State Preserve
 BI = Bear Island Unit
 CE = Collier Enterprises
 FCC = Fakahatchee Strand State Preserve

Table 19. Physical characteristics of wild hogs harvested on the Big Cypress National Preserve, 1983-88.

YEAR	SAMPLE SIZE	AVERAGE DRESSED WEIGHT (lbs.)	AVERAGE BODY LENGTH (cm.)(a)	AVERAGE SHOULDER HEIGHT (cm.)
1983-84	126	71(20-198)	114(42-170)	59(15-90)
1984-85	119	71(18-350)	116(77-164)	61(40-90)
1985-86	67	75(18-175)	116(54-152)	64(28-90)
1986-87	75	70(20-155)	115(78-155)	63(36-88)
1987-88	101	71(16-245)	115(75-166)	62(39-98)

(a) Body length does not include tail

Table 20. Comparison by sex of physical characteristics of wild hogs harvested on Big Cypress National Preserve, 1983-88.

YEAR	SEX	SAMPLE SIZE	AVERAGE DRESSED WEIGHT (lbs.)	AVERAGE BODY LENGTH (cm.)	AVERAGE SHOULDER HEIGHT (cm.)
1983-84	F	52	58(22-145)	113(42-170)	55(16-76)
	M	74	81(20-198)	115(47-149)	61(19-90)
1984-85	F	64	62(18-150)	113(77-142)	58(40-74)
	M	55	82(18-350)	120(78-164)	65(41-90)
1985-86	F	29	61(20-125)	115(57-146)	62(28-75)
	M	38	85(18-175)	117(54-152)	65(31-90)
1986-87	F	40	59(20-150)	111(78-145)	60(36-79)
	M	35	83(20-155)	118(78-155)	66(40-88)
1987-88	F	45	53(16-101)	109(75-145)	57(39-74)
	M	56	85(22-245)	120(87-166)	66(42-98)

Table 21. Comparison of wild hogs harvested on the Big Cypress National Preserve in the Stairsteps and Bear Island units, 1983-88.

YEAR	UNIT	SAMPLE SIZE	AVERAGE DRESSED WEIGHT (lbs.)	AVERAGE BODY LENGTH (cm.)	AVERAGE SHOULDER HEIGHT (cm.)
1983-84	Bear Island	70	77(24-198)	115 (47-170)	61(19-90)
		38	61(20-135)	110 (42-144)	55(24-72)
1984-85	Bear Island	49	74(20-350)	115 (81-164)	61(42-90)
		44	62(18-136)	113 (77-148)	59(40-82)
1985-86	Bear Island	21	92(50-155)	121(100-143)	68(59-90)
		23	55(18-145)	111 (76-141)	61(40-82)
1986-87	Bear Island	22	71(20-150)	113 (78-136)	65(36-88)
		31	80(30-155)	119 (78-155)	65(46-83)
1987-88	Bear Island	35	80(25-245)	118 (96-166)	69(48-98)
		39	60(16-151)	110 (75-140)	57(39-76)

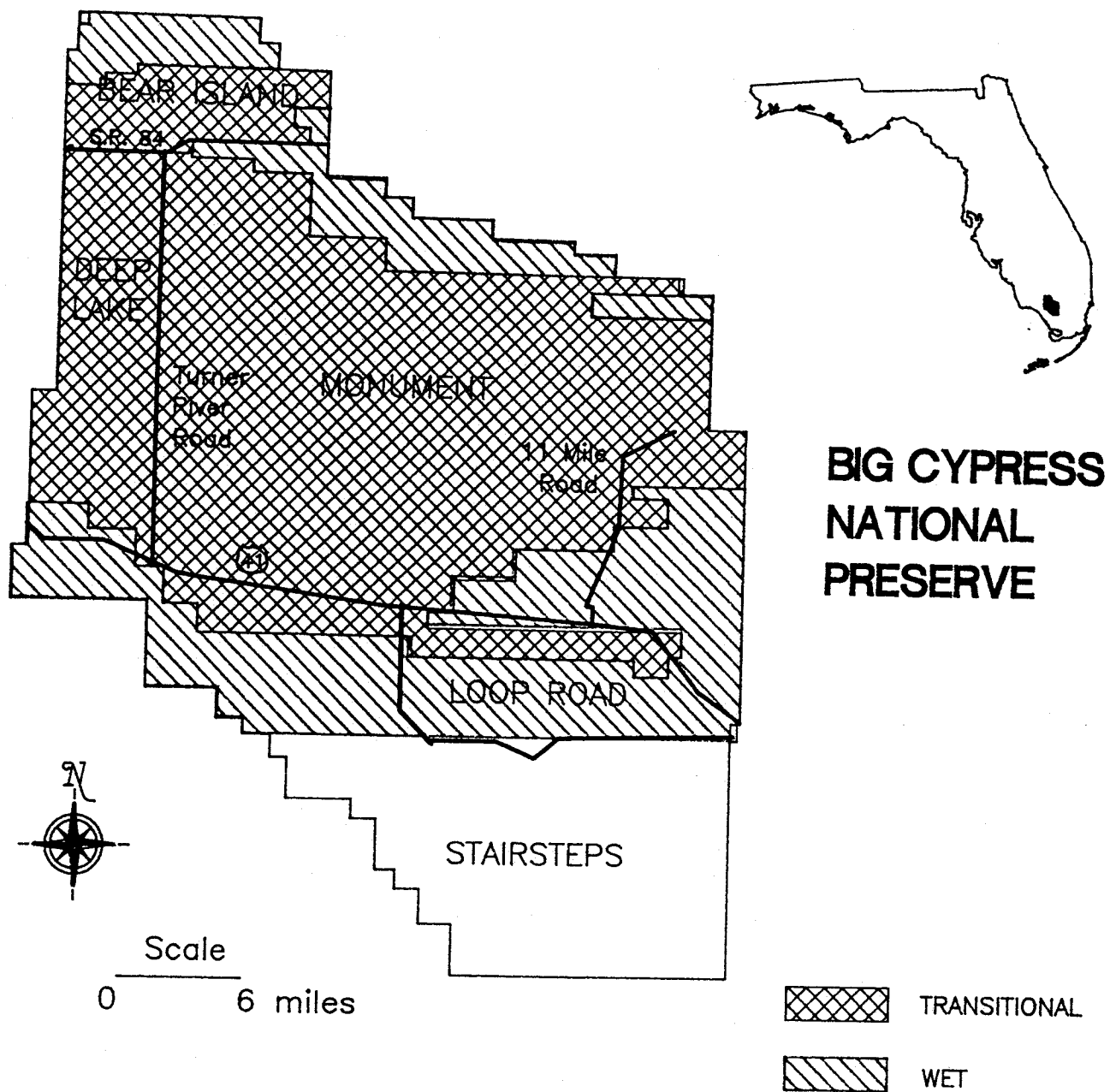
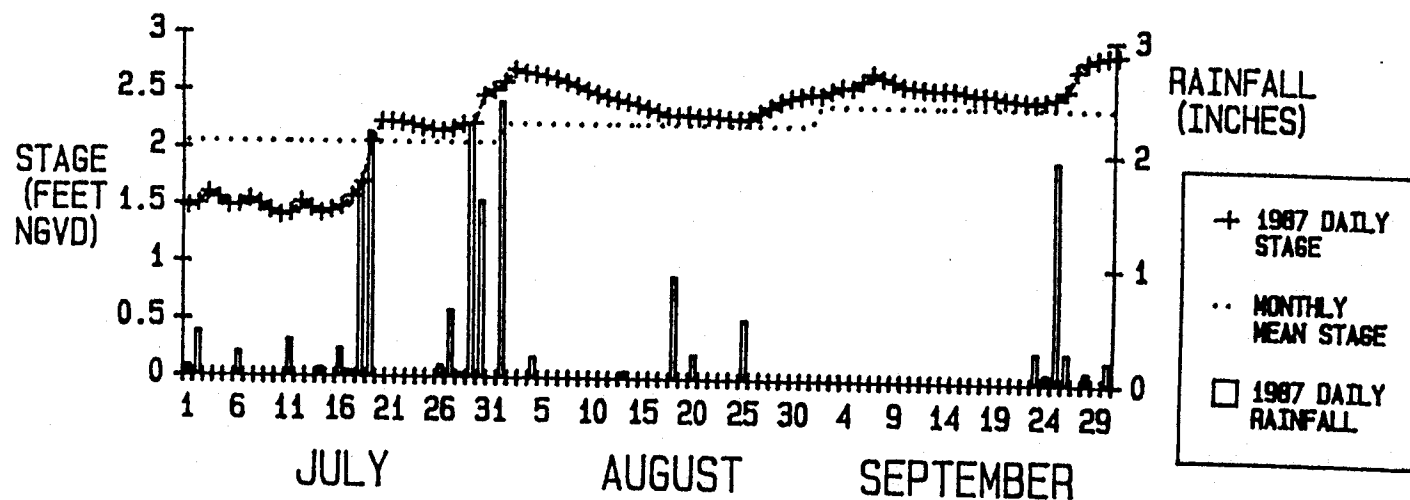
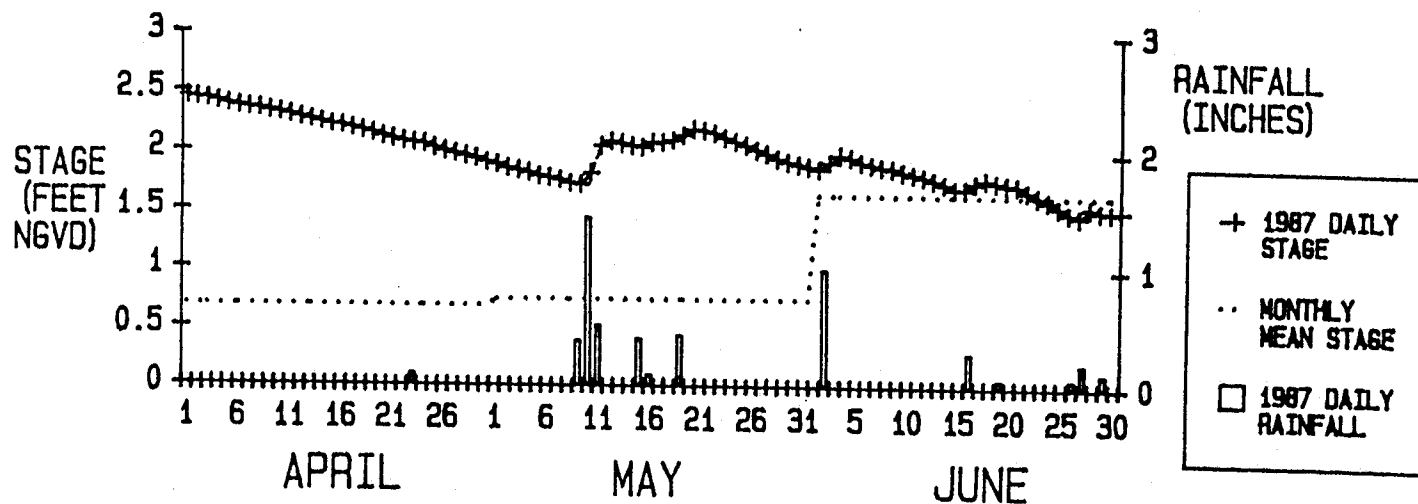


Figure 1. Hydropatterns, Big Cypress Swamp, April 6, 1987.

STAGE AND RAINFALL AT P-34



Missing June 3-15 and August 26-September 21 rain

Figure 2. Water levels at NPS gauge #34, southeastern Stairsteps, April-September, 1987.

(From Hydrology Synopsis, Everglades National Park, April 1987 - September 1987)

PLEASE:

LEAVE GATES AS YOU FIND THEM.

RECYCLE ALUMINUM CANS AT DESIGNATED SITES.

BEAR ISLAND UNIT

BIG CYPRESS WILDLIFE MANAGEMENT AREA

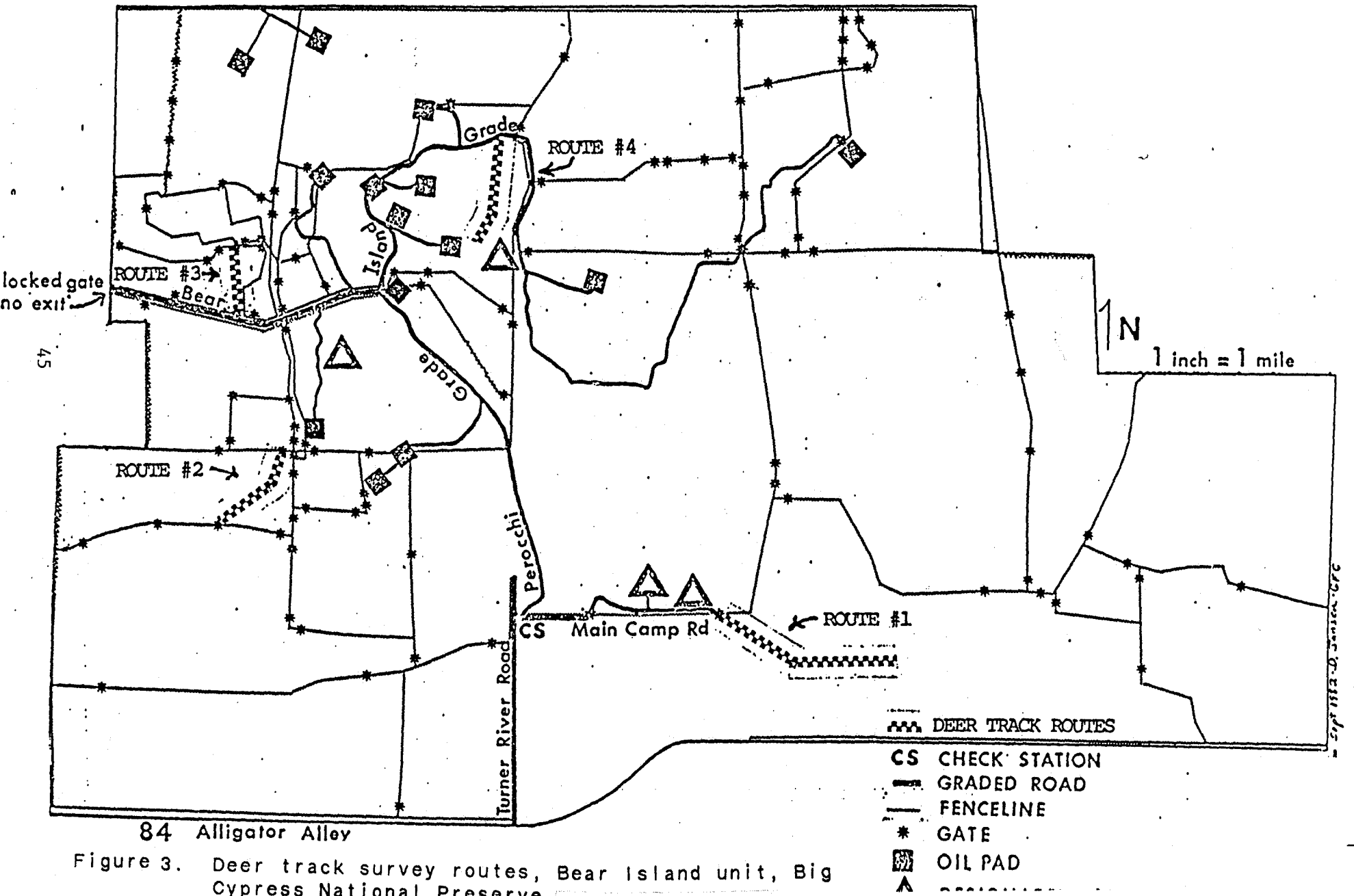
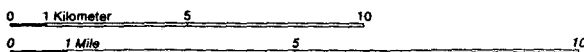
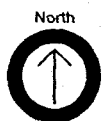
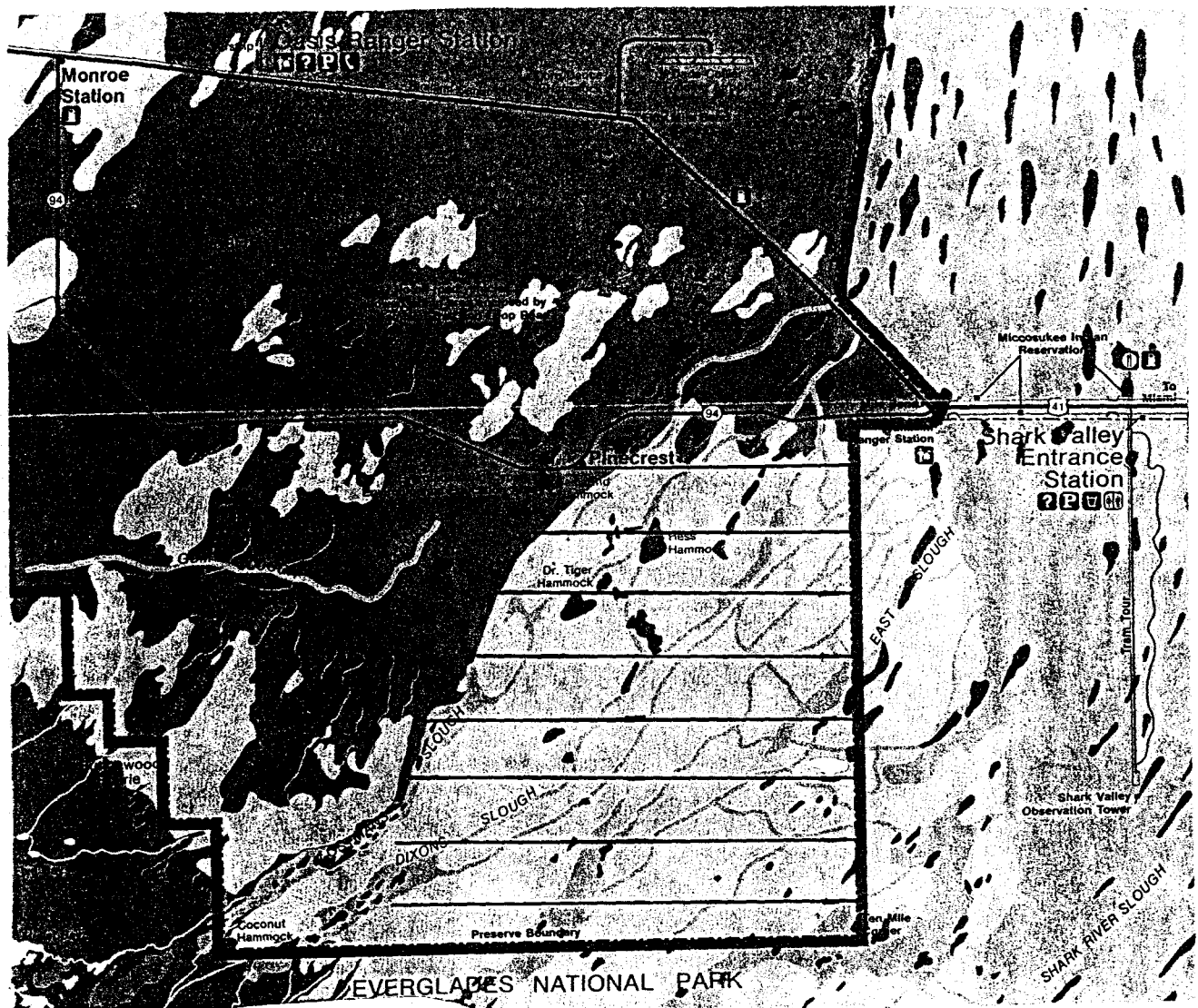


Figure 3. Deer track survey routes, Bear Island unit, Big Cypress National Preserve



- | | | |
|----------------|-------------------|--------------------|
| Information | Lodging and meals | Primitive campsite |
| Ranger station | Grocery | Picnic area |
| Parking | Gasoline | Interpretive trail |
| Restrooms | Drinking water | Public telephone |
| Meals | Campground | Public boat ramp |

Water depths (one meter equals approximately 3.3 feet)

- | | |
|--|--------------------|
| | 1 meter or less |
| | 1 to 2 meters |
| | More than 2 meters |

Color key to ecosystems

- | | | | |
|-------------------|---------------------------|--------------------|---------------------------------------|
| Cypress | Pinelands | Fresh Water Slough | Mangrove |
| Hardwood Hammocks | Fresh Water Marl Prairies | Coastal Prairie | Marine and Estuarine (all blue tones) |

Figure 5. Survey transects and general survey area for aerial deer census, eastern Stairsteps unit, 1985-87.

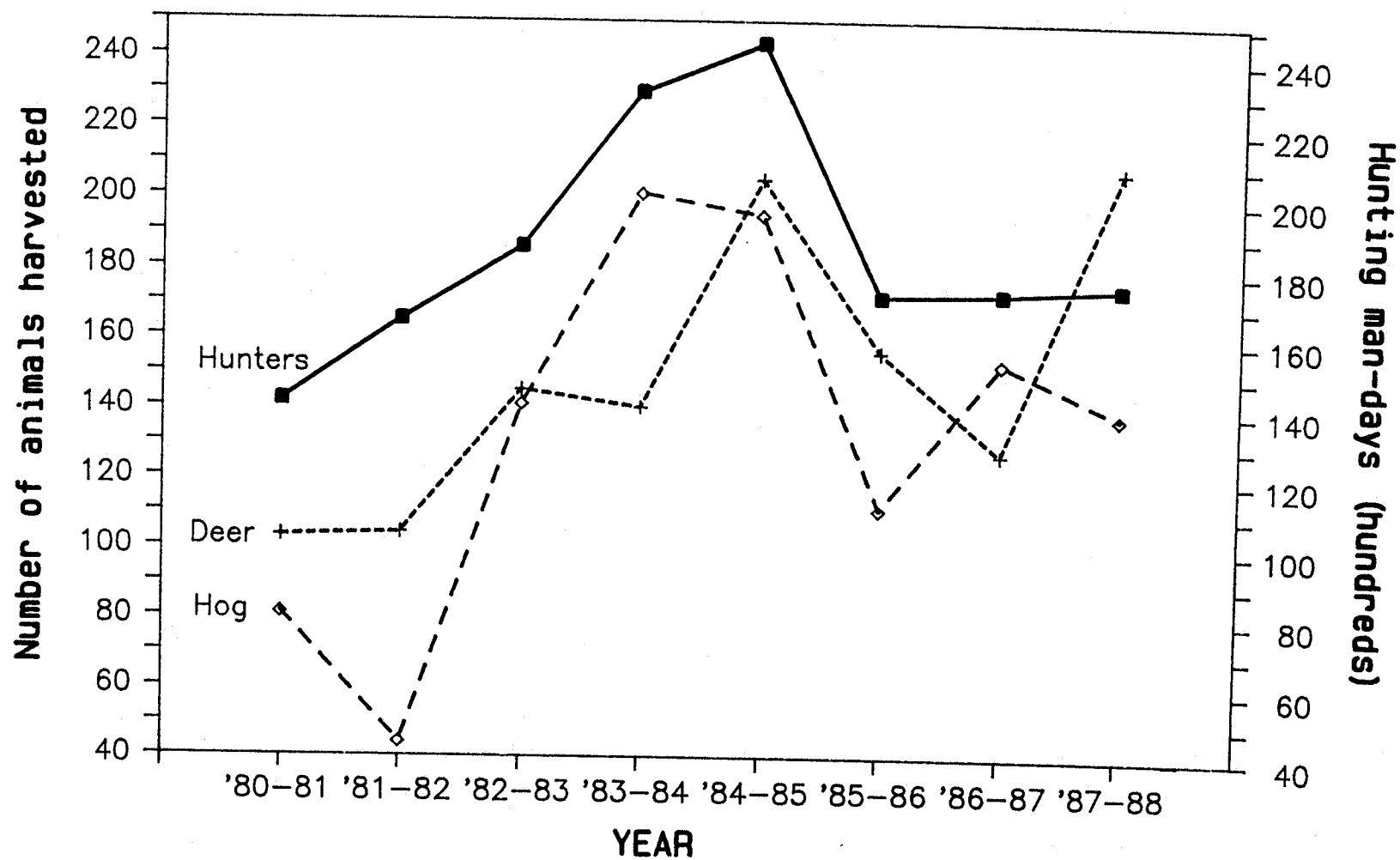


Figure 6. Hunting pressure and harvest of wild hog and white-tailed deer on the Big Cypress National Preserve, 1980-88.

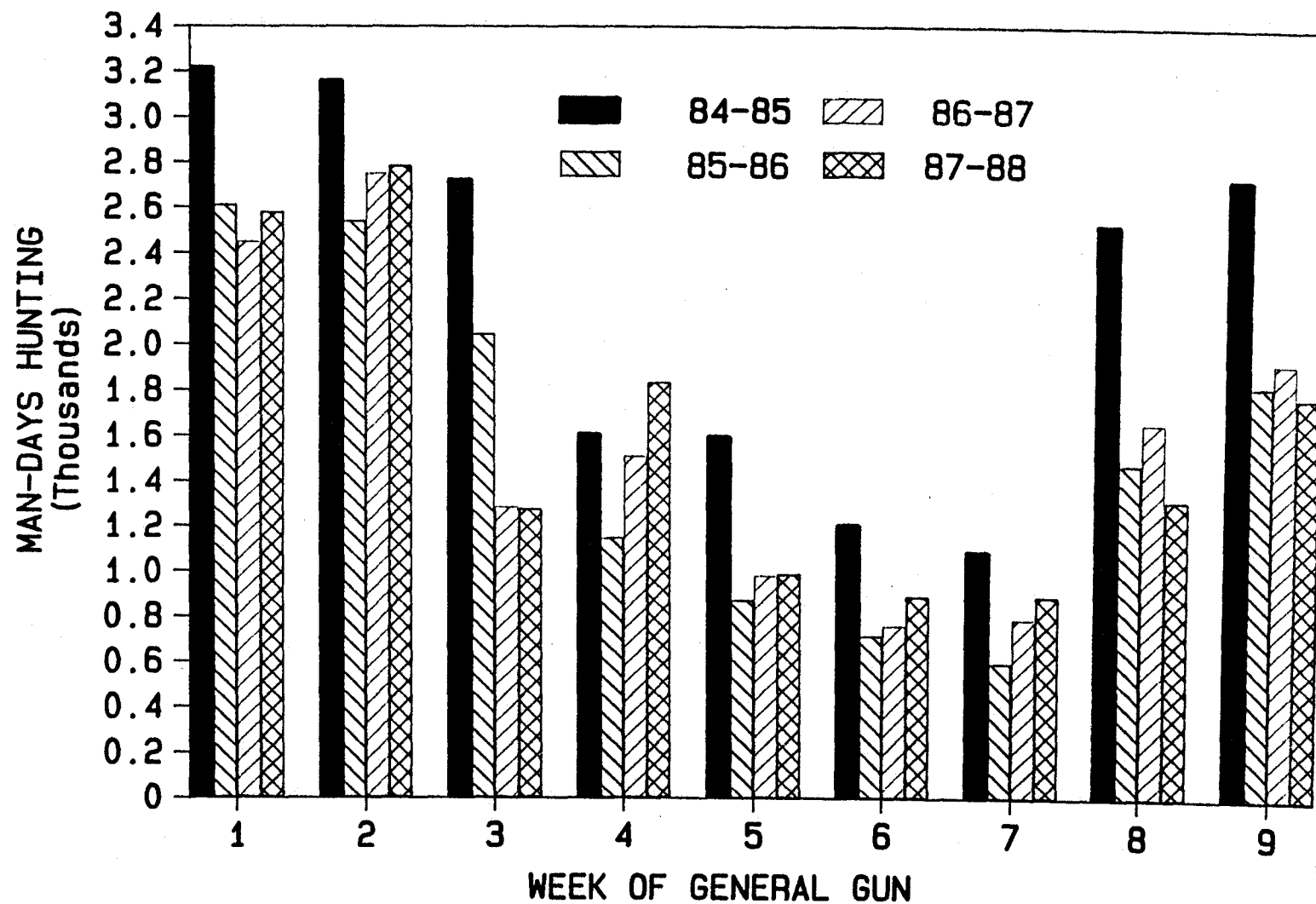


Figure 7. General Gun season hunting pressure by week, Big Cypress National Preserve, 1984-88.

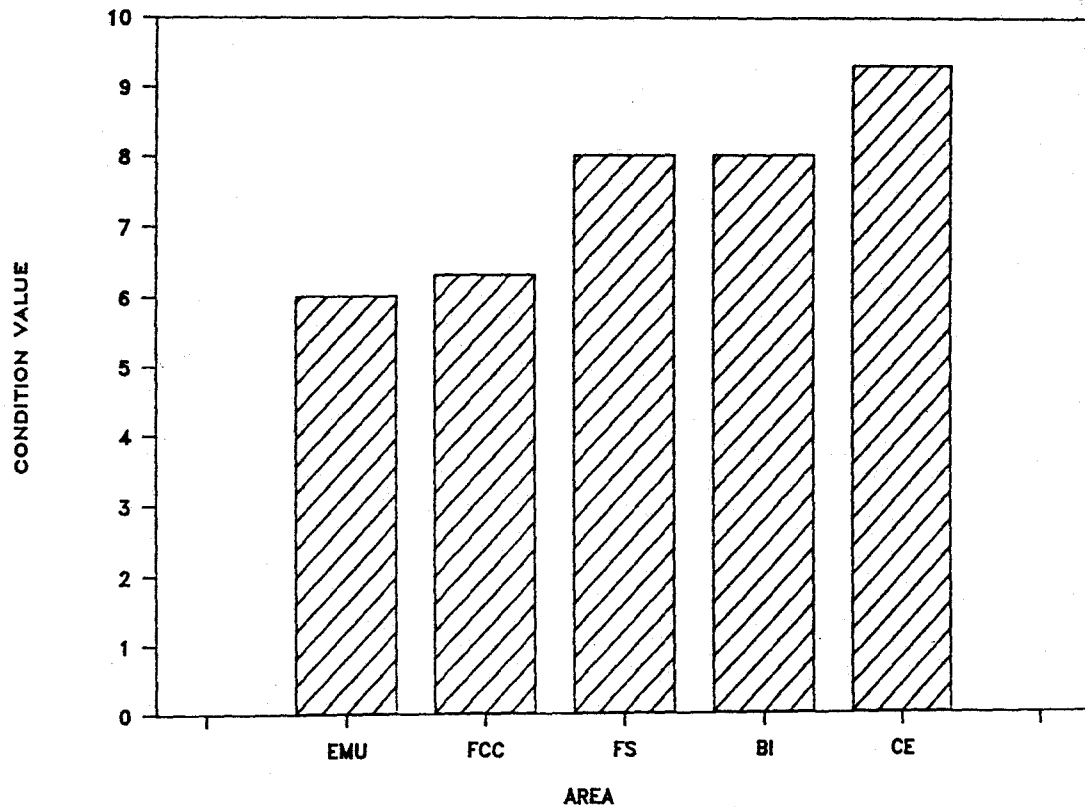


Figure 8. Mean condition values of adult does by area, October-November 1987. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

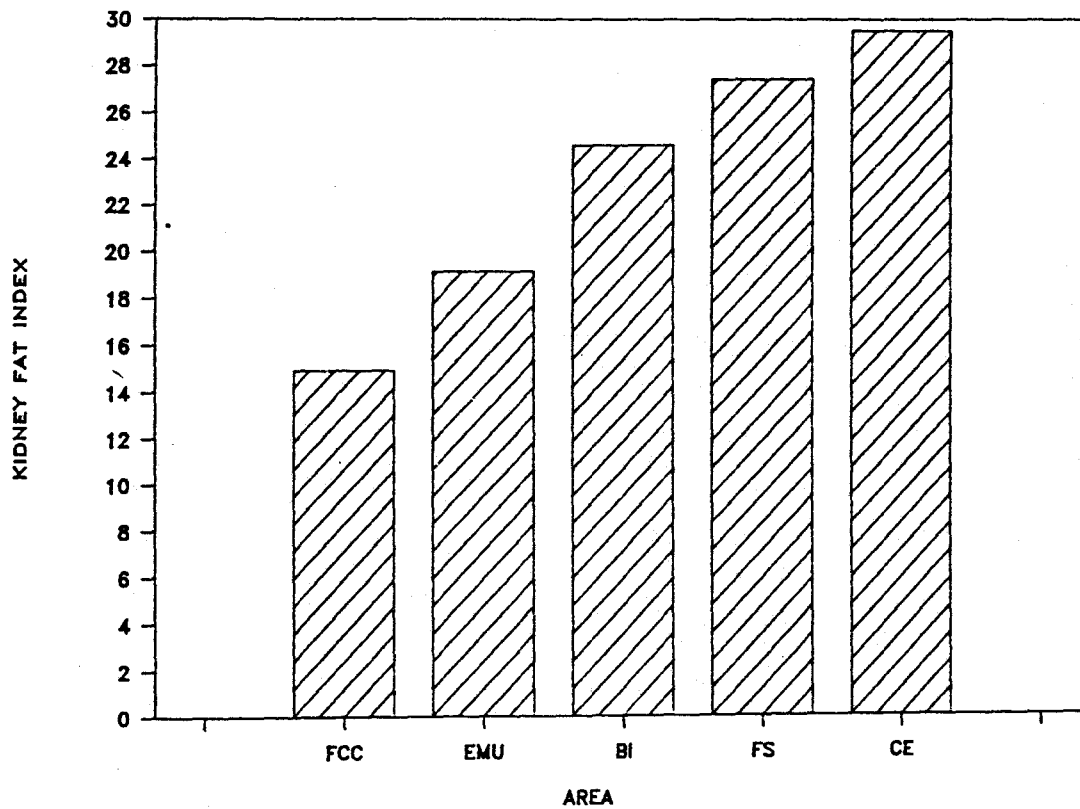


Figure 9. Mean kidney fat index values for adult does by area, October-November 1987. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

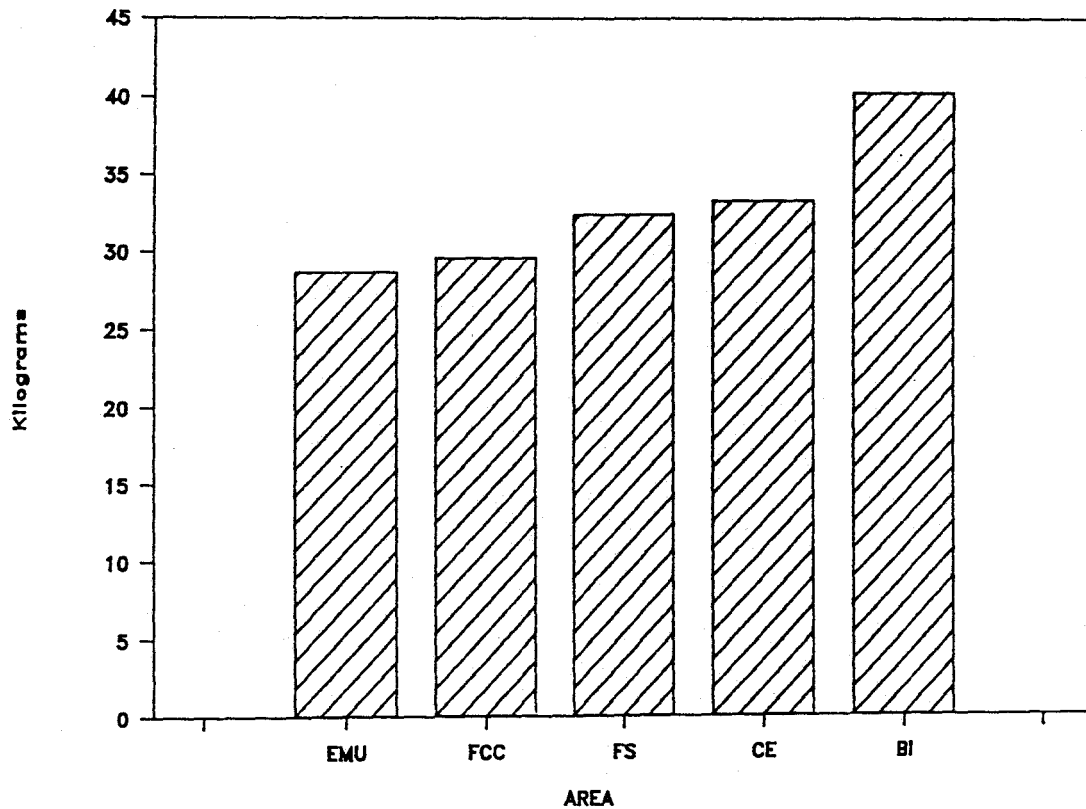


Figure 10. Mean live body weights of 1.5 year old doe deer by area, October-November 1987. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

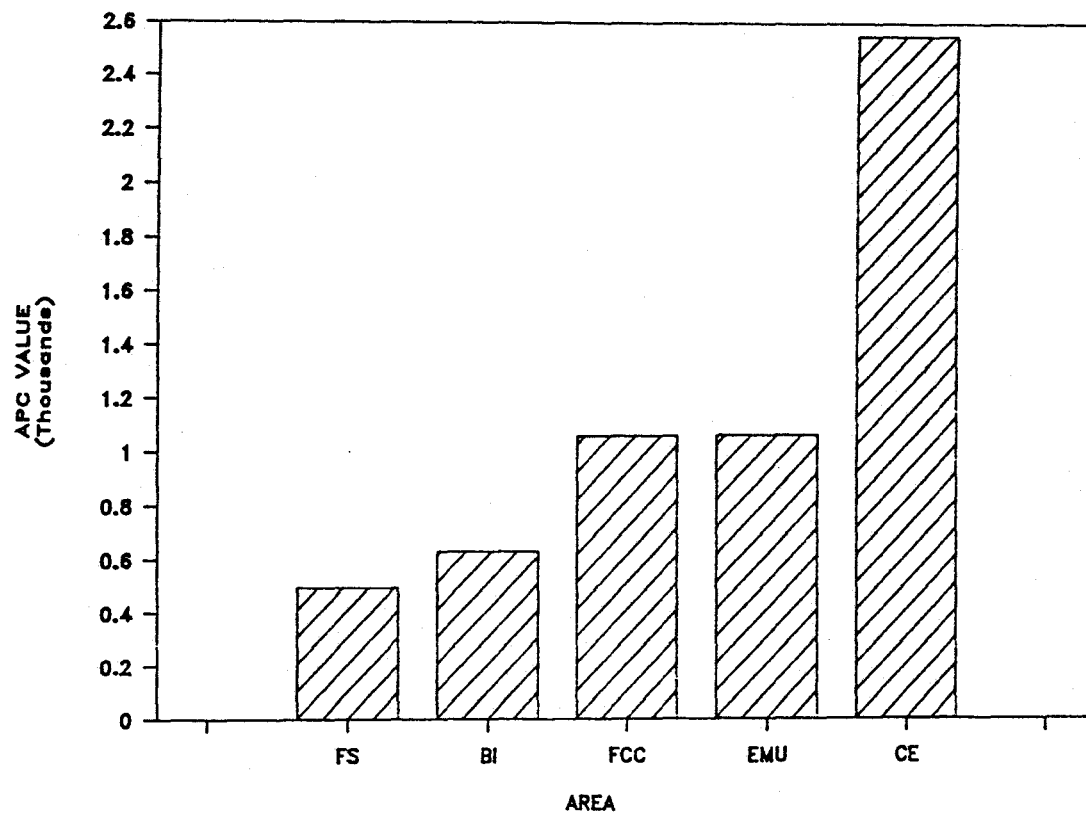
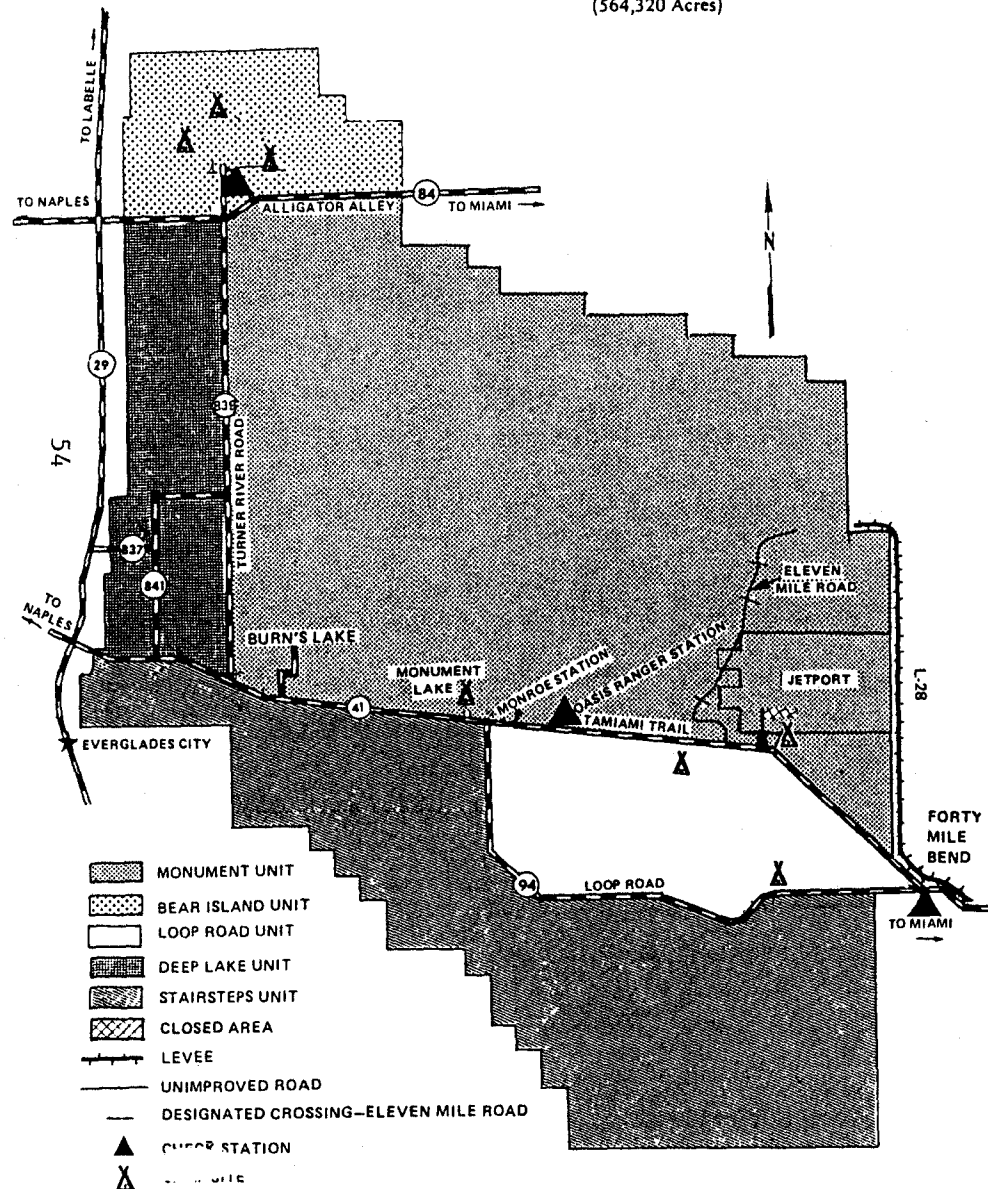


Figure 11. Mean APC values from adult deer by area, October-November 1987. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

Appendix A. Big Cypress Wildlife Management Area Regulations, 1987-88.

BIG CYPRESS WILDLIFE MANAGEMENT AREA

(564,320 Acres)



BIG CYPRESS WILDLIFE MANAGEMENT AREA 1987-88 REGULATIONS SUMMARY AND AREA MAP



867-307



A COOPERATIVE PUBLIC
HUNTING AREA
NATIONAL PARK SERVICE
GAME & FRESH WATER
FISH COMMISSION
An Equal Opportunity Agency

This brochure is designed to provide the public with information and a summary of regulations pertaining to hunting on the Big Cypress Wildlife Management Area. For the exact wording of the wildlife laws and regulations, see Florida Game and Fresh Water Fish Commission's wildlife code on file with the Secretary of State and state libraries. This brochure and the quota hunt application form should provide the information necessary for you to plan your hunting activities.

For information pertaining to hunting on private lands and trapping, consult the 1987-88 Florida Hunting Handbook and the 1987-88 Guidelines for the Taking of Furbearing Animals in Florida. These publications are available from any Commission office as well as county tax collectors and their subagents.

PERMIT, STAMP AND LICENSE INFORMATION:

Persons utilizing the wildlife management areas are required to have appropriate licenses, stamps and permits. Florida residents who are 65 years of age or older and persons certified totally and permanently disabled may obtain exemption certificates for most licenses, stamps and permits from the county tax collector. Hunters under age 16 are exempt from all permit, stamp and license requirements on this area.

Unless exempted, each hunter on this wildlife management area must have the following in his possession and display them upon request of any Commission employee.

1. Hunting License: Florida hunting license may be purchased from offices of county tax collectors or their subagents. Information on the categories and costs of hunting licenses is available in the Florida Hunting Handbook.
2. Wildlife Management Area Stamp: This \$10 stamp may be purchased from county tax collectors or their subagents.
3. Quota Permits: A no-cost regular quota hunt permit is required to hunt on the Bear Island, Stairsteps, Loop Road, Monument and Deep Lake units of this wildlife management area November 7 through 15 of the general gun hunt. A no-cost special quota hunt permit is required to hunt on the Bear Island Unit from October 3 through 11 of the muzzleloading gun season.

There are 250 regular quota hunt permits available for the Bear Island Unit; 1,000 regular quota hunt permits available for the Stairsteps Unit; 1,000 regular quota hunt permits available for the Monument and Deep Lake units; and 250 regular quota permits available for the Loop Road Unit. There are 250 special quota permits available for the muzzleloading gun hunt in the Bear Island Unit (October 3 through 11).

Regular and special quota hunt permit applications are available from county tax collectors or their subagents on or about June 1. To apply for either permit, obtain a regular or special quota hunt application and follow the printed instructions.

Transfer of Permits: Quota hunt permits are transferable. No other permits may be transferred. The sale or purchase of any quota hunt permit is prohibited.

4. Archery Stamp: This \$5.00 stamp is required when hunting during the archery hunt. This stamp is available from county tax collectors or their subagents.
5. Muzzleloading Gun Stamp: This \$5.00 stamp is required when hunting during the muzzleloading gun hunt. This stamp is available from county tax collectors or their subagents.
6. Wild Turkey Stamp: This \$5.00 stamp is required if hunting turkeys and may be purchased from county tax collectors or their subagents.
7. State Waterfowl Stamp: This \$3.00 stamp is required while hunting ducks and may be purchased from county tax collectors or their subagents.
8. Federal Duck Stamp: Any hunter 16 years of age or older must possess a federal duck stamp while hunting ducks. The \$7.50 stamp is available at post offices.
9. U.S. Park Service Off-Road Vehicle Registration Permit: Any vehicle used off roads on the Big Cypress Wildlife Management Area must have this permit. This includes any 4-wheel drive vehicle having a current license plate. The U.S. Park Service off-road vehicle registration permit is available at the Oasis Ranger Station. Call for more information: 813/695-4111 or 813/695-2000.

BAG AND POSSESSION LIMITS:

1. Deer, wild hogs and bearded turkeys—Daily limit 1, season limit 2 for each game species (all hunts combined).
2. Gray squirrel, quail or rabbit—Daily limit 12, possession limit 24, for each game species.
3. Raccoon, opossum, armadillo, beaver, coon, skunk and nutria—No bag limit.

4. Migratory game birds—See Migratory Game Bird Hunting Regulations pamphlet.

GENERAL WILDLIFE MANAGEMENT AREA REGULATIONS:

In addition to the regulations which follow, all general laws and regulations relating to wild animal life or freshwater aquatic life shall apply unless specifically excepted for this wildlife management area. Hunting or the taking of wildlife or fish on this area shall be allowed only during the open seasons and in the manner set forth herein.

1. Driving nails or spikes into or cutting trees is prohibited.
2. Hunting from a tree in which a metal object has been driven is prohibited.
3. It is illegal to cut or damage cattle fences.
4. Wild hogs may not be transported alive.
5. Fires other than campfires are prohibited.
6. It is unlawful for any person to leave any garbage or refuse in the management area.
7. Hunters using the Bear Island Unit shall enter and exit ONLY through the designated entry point at the north end of Turner River Road.
8. Entering any fenced area within the Jetport area is prohibited.
9. The wanton or willful waste of wildlife is prohibited.

Appendix A.

10. The head and evidence of sex may not be removed from the carcass of any deer on the area. Portions of the carcass may be removed immediately prior to cooking.

11. No person shall release any wildlife on this wildlife management area.

12. It is illegal to hunt over bait or place any bait or other food for wildlife on this wildlife management area.

13. The killing of fox is prohibited.

14. Killing swimming deer is prohibited.

15. The use of live decoys, traps, snares, nets or recorded game calls is prohibited.

16. Any person hunting deer or accompanying another person hunting deer shall wear at least 500 square inches of daylight fluorescent orange material above the waistline as an outer garment. This rule is subject to modification pending further legislation—check with regional office of the Commission for further information.

GUNS OR DOGS:

17. Hunting with gun and light is prohibited (see raccoon hunt for exceptions).

18. Hunting wildlife or the display or use of a gun in a manner capable of taking wildlife on or from the rights-of-way of County Roads 837, 839, 841, State Roads 84, 94, U.S. Highway 41 and Burns Road is prohibited.

19. Authorized hunting equipment or dogs may be taken onto the area after 8 a.m. one day before the opening of the hunt and shall be removed from the area before 6 p.m. one day after the hunt.

20. For taking non-migratory game, only shotguns, rifles, pistols, longbows (including compound and recurved bows), crossbows (during the general gun hunt only) or birds of prey may be used.

21. For hunting deer, muzzleloading guns firing a single bullet must be at least .40 caliber; those firing two or more balls must be 20 gauge or larger.

22. Hunting deer with full-jacketed bullets or any rifle cartridge is prohibited.

23. Fully automatic firearms, silencer-equipped firearms, centerfire semi-automatic rifles having a magazine capable of holding more than five rounds, explosive or drug-injecting devices and sawguns are prohibited.

24. Guns or dogs allowed only during periods in which their use for hunting is allowed.

25. No person shall have a gun in manual possession while under the influence of alcohol or drugs.

26. Children under the age of 16 may not be in possession of a firearm unless in the presence of a supervising adult.

27. Loaded, capped or primed guns are prohibited at campsites. The discharge of guns is prohibited on, from or across any campsite, levee or improved road.

28. Dogs are prohibited on the Loop Road Unit. The possession of dogs customarily used for hunting (other than bird dogs and waterfowl retrievers) is prohibited in the Bear Island Unit. The possession of dogs customarily used for hunting (other than bird dogs and waterfowl retrievers) is prohibited in the Monument, Deep Lake and Stairsteps units except November 7 through 15.

29. No person shall allow any dog to pursue or molest wildlife during any period in which hunting with dogs is prohibited.

30. No person shall possess any dog during any period in which hunting with dogs is prohibited, unless such dog is a non-hunting breed and under restraint.

VEHICLES:

31. Any vehicle used off roads must have a U.S. Park Service off-road vehicle registration permit. See Permit, Stamp and License Requirements for more information.

32. Vehicles shall not be parked in such a manner as to obstruct roads, gates or trails.

33. Vehicle access or use for the purposes of hunting, fishing or frogging shall be allowed on all units (except Loop Road) by vehicles with four rubber tires of nine-inch minimum width and 60-inch minimum wheel base and tracked vehicles with no more than nine linear feet of track touching the ground. Airboats are permitted except in the Bear Island and Loop Road units. During spring turkey season, vehicles shall not be operated off of established roads north of Alligator Alley. Tracked vehicles are prohibited on the Bear Island Unit.

34. No vehicles allowed on the Loop Road Unit at any time.

35. Parking on the paved portion of the Loop Road is prohibited.

36. Only vehicles equipped with pneumatic tires are permitted on the Loop Road.

37. Vehicular use by the public on Eleven-Mile Road is prohibited. Vehicles may cross Eleven-Mile Road at designated and marked points only.

Maps showing the location of crossings over Eleven-Mile Road are available at the Oasis Ranger Station.

38. No motor vehicle shall be operated on any part of this area posted as closed to vehicular traffic.

CAMPING:

39. Camping on the Bear Island Unit is permitted only at designated campsites by the use of tents, trailers or self-propelled camping vehicles. Camping and the use of trailers or other camper units on the Monument, Deep Lake, Stairsteps and Loop Road units is restricted to designated sites except that primitive camping (tents) is permitted throughout these units.

CHECK STATIONS:

40. All deer, turkey or wild hogs must be checked and tagged at a check station prior to removal from the area. It is important that as much of the animal remains intact and that it be brought to the check station as soon as possible. Important biological data are obtained from the following animals or animal parts: Deer (head, heart, kidney, liver), hog (head), turkey (wings and tail). If the animal is processed in the field, the above items should be brought to the check station along with the meat.

SEARCH:

41. A wildlife officer may search any camp, vehicle or boat when he reasonably believes a violation has been committed.

ARCHERY:

September 5 through 27.

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp, archery stamp. State and federal waterfowl stamps (if hunting ducks).

Legal to Take—Deer with one or more antlers at least five inches in length visible above the hairline, wild hogs with a shoulder height of 15 inches or more, gray squirrel, quail, rabbit, opossum, raccoon, beaver, coyote, armadillo, skunk and nutria.

Regulations Unique to the Archery Hunt: In addition to these regulations, all General Wildlife Management Area Regulations shall apply.

1. Possession of firearms or crossbows is prohibited, except that during the early duck season shotguns are permitted for duck hunting on all units except Bear Island.
2. The transportation of archery equipment on airboats is prohibited.

MUZZLELOADING GUN:

October 3 through 18.

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp, muzzleloading gun stamp, and special quota permit (if hunting on the Bear Island Unit October 3 through 11).

Legal to Take—Deer with one or more antlers at least five inches in length visible above the hairline, wild hogs with a shoulder height of 15 inches or more, gray squirrel, quail, rabbit, opossum, raccoon, beaver, coyote, armadillo, skunk and nutria.

Regulations Unique to the Muzzleloading Gun Hunt: In addition to these regulations, all General Wildlife Management Area Regulations shall apply.

1. Only muzzleloading guns are allowed.
2. The transportation of muzzleloading equipment on airboats is prohibited.

GENERAL GUN:

November 7 through January 3.

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp, regular quota hunt permit (if hunting November 7 through 15), state and federal waterfowl stamps (if hunting ducks) and wild turkey stamp (if hunting turkeys).

Legal to Take—Deer with one or more antlers at least five inches in length visible above the hairline, wild hogs with a shoulder height of 15 inches or more, gray squirrel, quail, rabbit, opossum, raccoon, beaver, coyote, armadillo, skunk, nutria and bearded turkeys or gobblers (only on the Monument and Loop Road units).

Regulations Unique to the General Gun Hunt: All General Wildlife Management Area regulations shall apply.

SMALL GAME:

January 4 through February 7.

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp. State and federal waterfowl stamps (if hunting ducks).

Legal to Take—Gray squirrel, quail, rabbit, opossum, raccoon, beaver, coyote, armadillo, skunk and nutria.

Regulations Unique to the Small Game Hunt: All General Wildlife Management Area Regulations shall apply and the possession of centerfire rifles is prohibited.

SPRING TURKEY:

March 12 through April 17.

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp and wild turkey stamp.

Legal to Take—Bearded turkeys or gobblers.

Regulations Unique to the Spring Turkey Hunt: In addition to these regulations, all General Wildlife Management Area Regulations shall apply.

1. Legal shooting hours are one-half hour before sunrise until 1 p.m.
2. No person shall possess any dog provided that dogs not normally used for hunting and kept under restraint may be possessed.
3. Vehicles may be operated only on established roads on the Bear Island Unit.

RACCOON AT NIGHT:

January 4 through February 7.

Permit, Stamp and License Requirements—Hunting license and wildlife management area stamp.

Legal to Take—Raccoon only.

Regulations Unique to the Nighttime Raccoon Hunt: In addition to these regulations, all General Wildlife Management Area Regulations shall apply.

1. Raccoons may be pursued with dogs from one-half hour before sunset to one-half hour after sunrise (except in the Bear Island and Loop Road units).

2. Raccoons may be hunted at night (except in the Bear Island and Loop Road units) using a light and dogs, with .22 rimfire firearms (other than .22 magnum) or with a single-shot .410 gauge shotgun using shot no larger than size 6. Firearms may not be loaded until just before shooting treed or bayed raccoons.

MIGRATORY GAME BIRDS:

Mourning doves, white-winged doves, snipe, ducks, coots, woodcock and crows may be hunted during seasons established for these species which coincide with the muzzleloading gun, general gun and small game hunts. Ducks may also be taken during the early duck season (except in the Bear Island Unit).

Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp. State and federal waterfowl stamps (if hunting ducks).

Legal to Take: See Migratory Game Bird Hunting Regulations pamphlet.

Regulations Unique to Migratory Game Birds—See Migratory Game Bird Hunting Regulations pamphlet. In addition to these regulations, all wildlife management area regulations contained in this pamphlet shall apply.

FISHING AND FROGGING:

Permitted throughout the year.

NATIONAL PARK SERVICE REGULATIONS:

This area is a national preserve. In addition to these regulations, all Big Cypress National Preserve regulations shall apply. For further information, contact the Big Cypress National Preserve Office, SR Box 110, Ochopee, Florida 33943, phone (813) 695-2000.

1. Camping is limited to a total of 30 days in a calendar year.
2. The intentional destruction, defacement, or removal of any natural or cultural feature or nonrenewable resource is prohibited.
3. Draining or dumping refuse or wastes from any trailer, or other vehicle, is prohibited.
4. Stamps for the collection of tree snails (*Liguus fasciatus*) may be requested from the Superintendent, Big Cypress National Preserve, SR Box 110, Ochopee, FL 33943 (813-695-2000).
5. The collection of plants, rocks, minerals, animal life, or other natural objects is permitted only in accordance with written permits obtained in advance from the Superintendent.
6. Constructing a building or other structure is prohibited.
7. Vehicles are prohibited on the Loop Road unit. Vehicles are prohibited on the Florida Trail.
8. Motorized vehicles shall not be operated in a manner causing significant damage to wildlife habitat, or to cultural or vegetative resources. The creating of new trails by cutting vegetation or by the use of till is prohibited.

GENERAL INFORMATION:

1. Small tracts of private property are located within the boundary of the wildlife management area. These lands may be posted against trespass and should not be considered as part of the wildlife management area.
2. If you have any questions about this material, please call the Game and Fresh Water Fish Commission at 305-683-0748 or 1-800-432-2046.

COOPERATION REQUESTED:

Please do not discharge firearms at anything other than legal game while in a wildlife management area. Target practice and random discharge of firearms have become increasing threats to the quality of the hunting experience.

PLEASE DO NOT LITTER. TAKE TRASH OUT WITH YOU.

In recent years, unauthorized and uncontrolled fires have caused severe damage to area wildlife and wildlife habitats. Controlled fires are beneficial only when they are of the proper size and location, and when area conditions are suitable. UNCONTROLLED FIRES DO NOT BENEFIT WILDLIFE. Please use caution with campfires, smoking materials and vehicles to prevent damage to wildlife habitats.

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Appendix B. Summary of vehicle surveys conducted on the Big Cypress National Preserve during selected hunting seasons, 1983-88.

	Vehicles Only					ATC					Swamp Buggy				
	83-84	84-85	85-86	86-87	87-88	83-84	84-85	85-86	86-87	87-88	83-84	84-85	85-86	86-87	87-88
ARCHERY															
Opening weekend	52 a	141	90	91	140	41 a	56	21	6	2	22 a	32	38	32	53
1st week	41 a	74	60	42	58	18 a	18	4	3	2	14 a	19	18	11	29
2nd week	63 a	61	45	58	52	26 a	36	2	8	2	24 a	13	21	17	16
3rd week	36 a	79	56	56	49	22 a	29	9	3	6	11 a	23	29	28	26
MUZZLELOADING															
Opening weekend	196	179	111 d	155	104	85	54	10 d	6	1	84	87	39 d	73	71
1st week	75 b	121	71	110	81	12 b	48	9	3	0	17 b	53	55	48	54
2nd week	82 b	97	81	103	90	28 b	31	7	6	0	41 b	43	38	42	61
GENERAL GUN															
Opening weekend	367	406	348	371	389	142	134	41	34	11	164	219	157	165	191
Midweek	112	53	49			24	28	12			60	61	61		
1st week	204 b	242	179	224	208	98 b	66	33	18	4	60 b	94	91	107	132
2nd week	272 a	307	171	152	139	90 a	96	10	6	0	96 a	87	60	58	80
3rd week	172	206	250	210	181	84	69	17	21	2	65	64	110	79	121
4th week	103 a	225	137	141	114	55 a	63	10	4	2	56 a	68	49	60	75
5th week	104 a	177	105	126	125	33 a	52	9	3	4	31 a	59	50	56	67
6th week	81	138	78	115	126	13	55	4	6	8	19	43	45	53	53
7th week	88 a	245	167	182	138	24 a	89	7	5	2	36 a	93	67	74	62
8th week	231	338	249	247	234	109	79	10	7	0	112	93	92	102	84

Appendix B

	Airboat					Totals				
	83-84	84-85	85-86	86-87	87-88	83-84	84-85	85-86	86-87	87-88
ARCHERY										
Opening weekend	10 a	4	5	2 c	12 c	125 a	212	154	131	207
1st week	8 a	7	12	4 c	0 c	81 a	118	94	60	89
2nd week	0 a	6	4	17 c	19 c	113 a	116	72	100	89
3rd week	7 a	10	0	15 c	0 c	76 a	141	94	102	81
MUZZLELOADING										
Opening weekend	26	19	9 d	7 c	15 c	391	339	169 d	241	191
1st week	10 b	12	7	6 c	28 c	114 b	234	142	167	163
2nd week	26 b	9	7	6 c	8 c	177 b	180	133	157	159
GENERAL GUN										
Opening weekend	140	140	128	114 c	146 c	813	899	674	684	737
Midweek	50	24 c	29 c			246	166	151		
1st week	39 b	57	32	50 c	74 c	401 b	459	335	399	418
2nd week	5 a	30	21	29 c	36 c	463 a	520	262	245	255
3rd week	31	26	2	32 c	46 c	352	365	379	342	350
4th week	22 a	31	16	18 c	35 c	236 a	387	212	223	226
5th week	24 a	7	11	12 c	21 c	192 a	295	175	197	217
6th week	9	15	10	17 c	28 c	122	251	137	191	215
7th week	10 a	16	18	31 c	36 c	158 a	443	259	292	238
8th week	46	33	12	56 c	62 c	498	543	363	412	380

a) Excluding Loop Road, Pinecrest to Monroe Station; and/or County Roads 837 and 841; and/or U.S. 41, TRR to west boundary; and/or Loop Road, 40 Mile Bend to Pinecrest.

b) Excluding several locations.

c) Includes Mitchell's Landing.

d) Main campground (Bear Island) not counted.

All: Excluded S-12's, S-12A and Bear Island - other Sites.

APPENDIX C. Summary of biological data collected on deer harvested during the 1987-88 hunting seasons on the Big Cypress Wildlife Management Area.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						REPORT 19
DATA COLLECTED ON 133 DEER (133 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON								
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL	
HARVEST BY SEX								
BUCKS	0.07 (0)	31.67 (42)	51.97 (69)	9.87 (13)	3.87 (5)	3.07 (4)	100.07 (133)	
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL	0.07 (0)	31.67 (42)	51.97 (69)	9.87 (13)	3.87 (5)	3.07 (4)	100.07 (133)	
AVERAGES								
TOTAL 1.5+								
LIVE WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	87.17 (6) (77 TO 100)	80.00 (1) (80 TO 80)	92.00 (2) (82 TO 102)	115.00 (1) (115 TO 115)	90.00 (1) (90 TO 90)	90.18 (11) (77 TO 115)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	87.17 (6) (77 TO 100)	80.00 (1) (80 TO 80)	92.00 (2) (82 TO 102)	115.00 (1) (115 TO 115)	90.00 (1) (90 TO 90)	90.18 (11) (77 TO 115)	
30% WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	63.06 (31) (46 TO 84)	67.57 (46) (52 TO 112)	68.13 (8) (51 TO 90)	96.00 (2) (90 TO 102)	76.00 (3) (61 TO 105)	66.98 (90) (46 TO 112)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	63.06 (31) (46 TO 84)	67.57 (46) (52 TO 112)	68.13 (8) (51 TO 90)	96.00 (2) (90 TO 102)	76.00 (3) (61 TO 105)	66.98 (90) (46 TO 112)	
CONDITION INDEX								
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)								
BUCKS	***** (0) (*****-*****)	4.94 (40) (3.00- 7.00)	5.58 (67) (3.50- 8.50)	6.27 (13) (4.00- 9.80)	8.36 (4) (7.00- 9.50)	7.84 (3) (5.00-12.50)	5.56 (127) (3.00-12.50)	

APPENDIX C.

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 19
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0) (*****-*****)	16.32 (39) (8.00-30.00)	20.22 (67) (7.00-34.00)	23.95 (13) (13.00-37.50)	29.14 (4) (26.50-43.00)	26.50 (3) (12.00-44.00)	20.15 (126) (7.00-44.00)
NUMBER OF POINTS							
2	0(*****?)	23(65.71%)	19(31.15%)	2(20.00%)	0(0.00%)	1(50.00%)	45(39.82%)
3	0(*****?)	2(8.57%)	12(19.67%)	1(10.00%)	0(0.00%)	0(0.00%)	16(14.16%)
4	0(*****?)	3(8.57%)	12(19.67%)	2(30.00%)	0(0.00%)	0(0.00%)	17(15.93%)
5	0(*****?)	2(5.71%)	1(1.64%)	0(0.00%)	0(0.00%)	0(0.00%)	3(2.65%)
6	0(*****?)	4(11.43%)	14(22.55%)	1(10.00%)	3(60.00%)	0(0.00%)	22(19.47%)
7	0(*****?)	0(0.00%)	2(3.28%)	0(0.00%)	0(0.00%)	0(0.00%)	2(1.77%)
8	0(*****?)	0(0.00%)	1(1.64%)	3(30.00%)	1(20.00%)	0(0.00%)	5(4.42%)
9	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	1(20.00%)	0(0.00%)	1(.88%)
10	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
11	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
12	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(50.00%)	1(.88%)
AVERAGE	****	2.9	2.8	4.9	7.0	7.0	3.8

SUMMARY OF REPRODUCTION

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FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)
IN UTERO SEX RATIO MALE/FEMALE:	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z
AVG. CONCEPTION DATE	***** (0) (*****-*****)						
AVG. PARTURITION DATE	***** (0) (*****-*****)						
					NUMBER OF ADULT(1.5+) DOES WITH	0 FETUSES = 0(*****?)	
						1 FETUS = 0(*****?)	
						2 FETUSES = 0(*****?)	
						3 FETUSES = 0(*****?)	

ABOMASAL PARASITE COUNT SUMMARY

NUMBER LARGE WORMS

FAWNS	***** (0) (*****-*****)	FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)	ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)	TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS	: ***** (0 OUT OF 0)
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER	: *** (*** TO ***)
% OF EXAMINED DEER WITH LIVER FLUKES	: ***** (0 OUT OF 0)
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER	: *** (*** TO ***)

BIG CYPRESS WILDLIFE MANAGEMENT AREA ZONE NO. 1							
DATA COLLECTED ON 24 DEEP (24 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON							
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX							
BUCKS	0.0% (0)	44.1% (15)	29.4% (10)	11.8% (4)	8.8% (3)	5.9% (2)	100.0% (34)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	0.0% (0)	44.1% (15)	29.4% (10)	11.8% (4)	8.8% (3)	5.9% (2)	100.0% (34)
AVERAGES							TOTAL 1.5+
LIVE WEIGHT (LBS)							
BUCKS	***** (0) (*** TO ***)	88.60 (5) (77 TO 100)	***** (0) (*** TO ***)	102.00 (1) (102 TO 102)	115.00 (1) (115 TO 115)	90.00 (1) (90 TO 90)	93.75 (8) (77 TO 115)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	88.60 (5) (77 TO 100)	***** (0) (*** TO ***)	102.00 (1) (102 TO 102)	115.00 (1) (115 TO 115)	90.00 (1) (90 TO 90)	93.75 (8) (77 TO 115)
30% WEIGHT (LBS)							
BUCKS	***** (0) (*** TO ***)	65.55 (11) (55 TO 75)	71.33 (9) (65 TO 86)	81.00 (3) (76 TO 90)	96.00 (2) (90 TO 102)	105.00 (1) (105 TO 105)	73.19 (26) (55 TO 105)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	65.55 (11) (55 TO 75)	71.33 (9) (65 TO 86)	81.00 (3) (76 TO 90)	96.00 (2) (90 TO 102)	105.00 (1) (105 TO 105)	73.19 (26) (55 TO 105)
CONDITION INDEX							
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
MAIN BEAM CIRCUM. (CM)							
BUCKS	***** (0) (*****-*****)	4.58 (15) (4.00- 6.00)	5.51 (9) (4.50- 8.00)	6.12 (4) (4.50- 8.10)	8.12 (3) (7.00- 9.00)	9.67 (2) (6.00-12.50)	5.60 (33) (4.00-12.50)

APPENDIX C.

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 9
AGE CLASS	C.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BLCKS	***** (0) (*****-*****)	16.21 (14) (11.50-26.00)	20.17 (9) (10.00-35.00)	24.73 (4) (16.00-35.50)	39.27 (3) (36.50-42.00)	32.17 (2) (12.00-44.00)	21.55 (32) (10.00-44.00)
NUMBER OF POINTS							
2	0(*****?)	10(83.33%)	5(50.00%)	1(25.00%)	0(0.00%)	0(0.00%)	16(53.33%)
3	0(*****?)	0(0.00%)	2(20.00%)	1(25.00%)	0(0.00%)	0(0.00%)	3(10.00%)
4	0(*****?)	1(8.33%)	1(10.00%)	0(0.00%)	0(0.00%)	0(0.00%)	2(6.67%)
5	0(*****?)	1(8.33%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(3.33%)
6	0(*****?)	0(0.00%)	2(20.00%)	1(25.00%)	2(66.67%)	0(0.00%)	5(16.67%)
7	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
8	0(*****?)	0(0.00%)	0(0.00%)	1(25.00%)	1(33.33%)	0(0.00%)	2(6.67%)
9	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
10	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
11	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)
12	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	1(100.00%)	1(3.33%)
AVERAGE	****	2.4	3.2	4.8	6.7	12.0	3.7

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SUMMARY OF REPRODUCTION

FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)
IN UTERO SEX RATIO MALE/FEMALE:	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****
AVG. CONCEPTION DATE	***** (0) (*****-*****)						
AVG. PARTURITION DATE	***** (0) (*****-*****)						
					NUMBER OF ADULT(1.5+) DOES WITH 0 FETUSES = 0(*****?)		
					1 FETUS = 0(*****?)		
					2 FETUSES = 0(*****?)		
					3 FETUSES = 0(*****?)		

APOMASLY PARASITE CCUNT SUMMARY

NUMBER LARGE WORMS

FAWNS	***** (0) (*****-*****)	FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)	ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)	TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS	: ***** (0 OUT OF C)
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER	: *** (*** TO ***)
% OF EXAMINED DEER WITH LIVER FLUKES	: ***** (0 OUT OF 0)
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER	: *** (*** TO ***)

APPENDIX C.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA					ZONE NO. 2	REPORT 10
DATA COLLECTED ON		2 DEER (2 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	50.0% (1)	50.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (2)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	50.0% (1)	50.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (2)
AVERAGES								TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	81.00 (1) (81 TO 81)	112.00 (1) (112 TO 112)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	96.50 (2) (81 TO 112)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	81.00 (1) (81 TO 81)	112.00 (1) (112 TO 112)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	96.50 (2) (81 TO 112)
CONDITION INDEX								
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
MAIN BEAM CIRCUM. (CM)								
BUCKS		***** (0) (*****-*****)	6.50 (1) (6.50- 6.50)	8.50 (1) (8.50- 8.50)	***** (0) (*****-*****)	***** (0) (*****-*****)	***** (0) (*****-*****)	7.50 (2) (6.50- 8.50)

APPENDIX C.

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 1C
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BLCKS	***** (0) (*****-*****)	26.25 (1) (26.00-26.50)	36.25 (1) (34.50-36.00)	***** (0) (*****-*****)	***** (0) (*****-*****)	***** (0) (*****-*****)	30.75 (2) (26.00-36.00)
NUMBER OF POINTS							
2	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
3	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
4	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
5	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
6	0(*****7)	1(100.00%)	1(100.00%)	0(*****7)	0(*****7)	0(*****7)	2(100.00%)
7	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
8	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
9	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
10	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
11	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
12	0(*****7)	0(0.00%)	0(0.00%)	0(*****7)	0(*****7)	0(*****7)	0(0.00%)
AVERAGE	****	6.0	6.0	****	****	****	6.0

SUMMARY OF REPRODUCTION

63

FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)
IN UTERO SEX RATIO MALE/FEMALE:	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****
AVG. CONCEPTION DATE	***** (0) (*****-*****)						
AVG. PARTURITION DATE	***** (0) (*****-*****)						
					NUMBER OF ADULT(1.5+) DOES WITH 0 FETUSES = 0(*****7)		
					1 FETUS = 0(*****7)		
					2 FETUSES = 0(*****7)		
					3 FETUSES = 0(*****7)		

ABDOMEN PARASITE COUNT SUMMARY

FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

NUMBER LARGE WORMS

FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS : ***** (0 OUT OF 0)
 AVERAGE NO. OF LUNG WORMS PER INFECTED DEER : ****(*** TO ***)
 % OF EXAMINED DEER WITH LIVER FLUKES : ***** (0 OUT OF 0)
 AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER : *** (** TO ***)

APPENDIX C.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA			ZONE NO. 3		REPORT 11	
DATA COLLECTED ON		8 DEER (8 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS	0.0% (0)	62.5% (5)	12.5% (1)	12.5% (1)	12.5% (1)	0.0% (0)		100.0% (8)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)		***** (0)
TOTAL	0.0% (0)	62.5% (5)	12.5% (1)	12.5% (1)	12.5% (1)	0.0% (0)		100.0% (8)
AVERAGES								
								TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
DOES	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
TOTAL	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
30% WEIGHT (LBS)								
BUCKS	***** (0) (** TO **)	60.00 (4) (50 TO 70)	60.00 (1) (60 TO 60)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	60.00 (5) (50 TO 70)
DOES	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
TOTAL	***** (0) (** TO **)	60.00 (4) (50 TO 70)	60.00 (1) (60 TO 60)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	60.00 (5) (50 TO 70)
CONDITION INDEX								
BUCKS	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
DOES	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
TOTAL	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)
MAIN BEAM CIRCUM. (CM)								
BUCKS	***** (0) (*****-*****)	4.79 (5) (4.00- 5.50)	5.00 (1) (5.00- 5.00)	9.40 (1) (9.00- 9.80)	9.10 (1) (8.70- 9.50)	***** (0) (*****-*****)		6.01 (8) (4.00- 9.80)

APPENDIX C.

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 11
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BLOCKS	***** (0) (*****-*****)	16.28 (5) (10.00-23.00)	15.50 (1) (15.00-16.00)	37.25 (1) (37.00-37.50)	38.75 (1) (27.50-40.00)	***** (0) (*****-*****)	21.97 (8) (10.00-40.00)
NUMBER OF POINTS							
2	0(*****?)	2(50.00%)	1(100.00%)	0(0.00%)	0(0.00%)	0(*****?)	2(42.86%)
3	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
4	0(*****?)	1(25.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	1(14.29%)
5	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
6	0(*****?)	1(25.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	1(14.29%)
7	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
8	0(*****?)	0(0.00%)	0(0.00%)	1(100.00%)	0(0.00%)	0(*****?)	1(14.29%)
9	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	1(100.00%)	0(*****?)	1(14.29%)
10	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
11	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
12	0(*****?)	0(0.00%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****?)	0(0.00%)
AVERAGE	****	3.5	2.0	8.0	9.0	****	4.7

SUMMARY OF REPRODUCTION

65

FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)
IN LTERO SEX RATIO MALE/FEMALE:	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****
AVG. CONCEPTION DATE	***** (0) (*****-*****)						
AVG. PARTURITION DATE	***** (0) (*****-*****)						
						NUMBER OF ADULT(1.5+) DOES WITH 0 FETUSES = 0(*****?)	
						1 FETUS = 0(*****?)	
						2 FETUSES = 0(*****?)	
						3 FETUSES = 0(*****?)	

ABOMASUM PARASITE COUNT SUMMARY

NUMBER LARGE WORMS

FAWNS	***** (0) (*****-*****)	FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)	ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)	TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS : *****% (0 OUT OF 0)
 AVERAGE NO. OF LUNG WORMS PER INFECTED DEER : *** (*** TO ***)
 % OF EXAMINED DEER WITH LIVER FLUKES : *****% (0 OUT OF 0)
 AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER : *** (*** TO ***)

APPENDIX C.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 4		REPORT 12	
DATA COLLECTED ON		14 DEER (14 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON							
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL	
HARVEST BY SEX									
BUCKS		0.0% (0)	0.0% (0)	71.4% (10)	21.4% (3)	7.1% (1)	0.0% (0)	100.0% (14)	
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL		0.0% (0)	0.0% (0)	71.4% (10)	21.4% (3)	7.1% (1)	0.0% (0)	100.0% (14)	
AVERAGES									TOTAL 1.5+
LIVE WEIGHT (LBS)									
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	82.00 (1) (82 TO 82)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	81.00 (2) (80 TO 82)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	82.00 (1) (82 TO 82)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	81.00 (2) (80 TO 82)	
30% WEIGHT (LBS)									
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	69.14 (7) (58 TO 95)	65.00 (2) (65 TO 65)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	68.22 (9) (58 TO 95)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	69.14 (7) (58 TO 95)	65.00 (2) (65 TO 65)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	68.22 (9) (58 TO 95)	
CONDITION INDEX									
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)									
BUCKS		***** (0) (*****-*****)	***** (0) (*****-*****)	5.65 (10) (4.00- 7.30)	5.90 (2) (4.50- 8.00)	***** (0) (*****-*****)	***** (0) (*****-*****)	5.74 (13) (4.00- 8.00)	

APPENDIX C.

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 12
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0) (*****-*****)	***** (0) (*****-*****)	21.38 (10) (12.00-32.00)	21.00 (3) (16.50-28.00)	***** (0) (*****-*****)	***** (0) (*****-*****)	21.30 (13) (12.00-32.00)
NUMBER OF POINTS							
2	0(*****%)	0(*****%)	3(37.50%)	1(50.00%)	0(0.00%)	0(*****%)	4(36.36%)
3	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
4	0(*****%)	0(*****%)	2(25.00%)	1(50.00%)	0(0.00%)	0(*****%)	3(27.27%)
5	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
6	0(*****%)	0(*****%)	2(25.00%)	0(0.00%)	1(100.00%)	0(*****%)	3(27.27%)
7	0(*****%)	0(*****%)	1(12.50%)	0(0.00%)	0(0.00%)	0(*****%)	1(9.09%)
8	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
9	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
10	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
11	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
12	0(*****%)	0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****%)	0(0.00%)
AVERAGE	****	****	4.1	3.0	6.0	****	4.1

SUMMARY OF REPRODUCTION

67

FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)	*** (0)
IN UTERO SEX RATIO MALE/FEMALE:	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****	*****/*****
AVG. CONCEPTION DATE ***** (0) (*****-*****)							
AVG. PARTURITION DATE ***** (0) (*****-*****)							

NUMBER OF ADULT(1.5+) DOES WITH 0 FETUSES = 0(*****%)
1 FETUS = 0(*****%)
2 FETUSES = 0(*****%)
3 FETUSES = 0(*****%)

ABOMASUM PARASITE COUNT SUMMARY

FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

NUMBER LARGE WORMS

FAWNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS : ***** (0 OUT OF 0)
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER : *** (*** TO ***)
% OF EXAMINED DEER WITH LIVER FLUKES : ***** (0 OUT OF 0)
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER : *** (*** TO ***)

APPENDIX C.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 5		REPORT 13
DATA COLLECTED ON		75 DEER (75 BUCKS, 0 DOES) IN THIS AREA IN THE 1987-88 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS	0.0% (0)	28.0% (21)	62.7% (47)	6.7% (5)	0.0% (0)	2.7% (2)	100.0% (75)	
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL	0.0% (0)	28.0% (21)	62.7% (47)	6.7% (5)	0.0% (0)	2.7% (2)	100.0% (75)	
AVERAGES								TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	
30% WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	60.87 (15) (46 TO 84)	64.64 (28) (52 TO 90)	57.33 (3) (51 TO 62)	***** (0) (*** TO ***)	61.50 (2) (61 TO 62)	62.88 (48) (46 TO 90)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	60.87 (15) (46 TO 84)	64.64 (28) (52 TO 90)	57.33 (3) (51 TO 62)	***** (0) (*** TO ***)	61.50 (2) (61 TO 62)	62.88 (48) (46 TO 90)	
CONDITION INDEX								
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)								
BUCKS	***** (0) (*****-*****)	4.97 (19) (3.00- 7.00)	5.52 (46) (3.50- 8.40)	5.85 (5) (4.00- 7.30)	***** (0) (*****-*****)	5.10 (1) (5.00- 5.20)	5.39 (71) (3.00- 8.40)	

APPENDIX C.

BIG CYPRESS

AGE CLASS

MAIN BEAM LENGTH (CM)

BUCKS

NUMBER OF POINTS

2

3

4

5

6

7

8

9

10

11

12

AVERAGE

WILDLIFE MANAGEMENT AREA

0.5

1.5

ZONE NO. 5

2.5

3.5

4.5

5.5+

REPORT 12

TOTAL 1.5+

***** (0)
(*****-*****)

15.86 (19)
(8.00-30.00)

15.73 (46)
(7.00-33.00)

21.69 (5)
(13.00-29.50)

***** (C)
(*****-*****)

18.00 (1)
(17.50-18.50)

18.75 (71)
(7.00-33.00)

0(*****)
0(*****)
0(*****)

11(61.11%)
3(16.67%)
1(5.56%)

10(24.35%)
10(24.35%)
9(21.55%)

0(0.00%)
0(0.00%)
2(66.67%)

0(*****)
0(*****)
0(*****)

1(100.00%)
0(0.00%)
0(0.00%)

22(34.92%)
13(20.63%)
12(19.05%)

0(*****)
0(*****)
0(*****)

1(5.56%)
2(11.11%)
0(0.00%)

1(2.44%)
5(21.55%)
1(2.44%)

0(0.00%)
0(0.00%)
0(0.00%)

0(*****)
0(*****)
0(*****)

0(0.00%)
0(0.00%)
0(0.00%)

2(3.17%)
11(17.46%)
1(1.59%)

0(*****)
0(*****)
0(*****)

0(0.00%)
0(0.00%)
0(0.00%)

1(2.44%)
0(0.00%)
0(0.00%)

1(33.33%)
0(0.00%)
0(0.00%)

0(*****)
0(*****)
0(*****)

0(0.00%)
0(0.00%)
0(0.00%)

2(3.17%)
0(0.00%)
0(0.00%)

0(*****)
0(*****)

0(0.00%)
0(0.00%)
2.9

0(0.00%)
0(0.00%)
2.5

0(0.00%)
0(0.00%)
5.3

0(*****)
0(*****)

0(0.00%)
0(0.00%)
2.0

0(0.00%)
0(0.00%)
3.7

SUMMARY OF REPRODUCTION

FAWNS PER EXAMINED DOE
FROM FETUS COLLECTIONS

*** (0)

*** (0)

*** (0)

*** (0)

*** (C)

*** (0)

*** (0)

IN UTERO SEX RATIO MALE/FEMALE:

*****/*****

*****/*****

*****/*****

*****/*****

*****/*****

*****/*****

AVG. CONCEPTION DATE

***** (0)
(*****-*****)

AVG. PARTURITION DATE

***** (0)
(*****-*****)

ABOMASAL PARASITE COUNT SUMMARY

FAWNS

***** (0)
(*****-*****)

ADULTS

***** (0)
(*****-*****)

TOTAL

***** (0)
(*****-*****)

NUMBER LARGE WORMS

FAWNS

***** (0)
(*****-*****)

ADULTS

***** (C)
(*****-*****)

TOTAL

***** (C)
(*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS

: ***** (0 OUT OF 0)

AVERAGE NO. OF LUNG WORMS PER INFECTED DEER

: ***** (0 OUT OF 0)

% OF EXAMINED DEER WITH LIVER FLUKES

: ***** (0 OUT OF 0)

AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER

: ***** (0 OUT OF 0)

NUMBER OF ADULT(1.5+) DOES WITH
0 FETUSES = 0(*****)
1 FETUS = 0(*****)
2 FETUSES = 0(*****)
3 FETUSES = 0(*****)