

BIG CYPRESS NATIONAL PRESERVE

DEER AND HOG ANNUAL REPORT

1986-87

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J. L. Schortemeyer, J. W. McCown and M. R. Ramsey

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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 requirements on legal deer (five inch minimum antler length).

A result of these changes was a decline of approximately 26% for the combined deer and hog harvest for the past two years (1986-87 and 1985-86) as compared with the two years prior to the new regulations (1984-85 and 1983-84). 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 density populations of deer and hog with apparent differences between different 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 dramatically elsewhere. 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 1986-87 on BCNP.

Hunting

Hunts were held as scheduled with deer and hog hunting permitted during Archery, Muzzleloader and General Gun hunts. In addition to statewide rules these hunts were governed by specific regulations for BCNP (Appendix A). Changes were enacted for the 1985-86 hunt season and these were continued during 1986-87 season. These changes were: reductions in the number of quota permits, elimination of ATC's for hunting and the 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.

The major change for 1986-87 was an increase in the minimum antler size for legal deer from one inch to five inches. The purpose 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 indicates that both activities exerted relatively mild pressure on this age class (Schortemeyer and McCown 1986).

The opening date of the General Gun hunt on BCNP was one week after the statewide season opened. 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. 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. Overall, 1986-87 check station operations were comparable to 1985-86.

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.

Figures 1 through 4 show the general hydrological conditions for BCNP from June 1986, through April 1987. These maps were generated during monthly wading bird surveys flown over the area. Water conditions are 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. During 1986-87 the area showed wetter than normal hydropatterns with a major portion of the area wet during the rainy season in August 1986 (Fig. 1). After the end of the rainy season, transitional and wet conditions prevailed (Fig. 2). This condition continued into the middle of the dry season (February 1987) with only a small portion of the area designated dry, Figure 3. Rains continued and by April 1987, transitional and wet conditions prevailed (Fig. 4). Following the April survey water levels declined and by mid-May dry levels prevailed over most of the area.

Fires during 1986-87 burned approximately 44,000 acres. Wildfires during January through June 1986, account for 24,000 acres or 54% of the total. Two wildfires in May 1986, account for most of the wildfire total. These two wildfires were the "84 West" fire in the Deep Lake unit south of Alligator Alley and the "Burns Lake" fire north of U.S. 41 in the western Monument unit. Prescribed fires from June 1986, through May 1987, account for the remaining 20,000 acres 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. 5). 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. The magnitude of these changes appear to be unrealistic when compared to an average annual harvest of 34 animals (1984-85 through 1986-87) and a potential illegal harvest of the same size. Reasons for the discrepancies may be due to movement of animals out of the area during the hunt season and inadequacies of the survey methods to accomodate environmental conditions.

During 1987 plans were made to initiate May through June surveys consistent with track counts conducted on the Monument Unit. These counts were to be conducted in addition to normal post-hunt surveys. High water levels persisted in Bear Island and post-hunt surveys were cancelled due to wet conditions. The transects were still to 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. 6). The suitable portion of these transects are re-measured each year and the total

length adjusted to accomodate 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 is thought the apparent increase in the Monument deer herd indicated by track count data is a real and true 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 water levels during fawning have an influence on survival. Likewise, the abnormally wet March of 1987 when rainfall exceeded the monthly mean of 1.6 inches by 6.5 will likely negatively impact this years 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 7 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.

HUNTING

Hunting pressure on BCNP was estimated at 17,290 man-days for the Archery, Muzzleloading and General Gun seasons (Table 7). This represents a slight increase over the prior year. Deer harvest was down 18.6% (127) while hog harvest was up 37.8% (153). Hunter success (game check/man-days) remained unchanged at 0.016. The reduction in the deer harvest was compensated by an increased hog harvest. The decline in deer harvest approximates the predicted change due to the five inch antler requirement although other factors probably contributed.

Figure 8 shows hunter activity and checked harvest for each of the last six years. Both pressure and overall harvest remained relatively constant over the past two years. Although hog and deer harvest has fluctuated significantly hunter success has remained constant for the past four years

(0.15-0.16). Generally, declines in harvest by one species has been offset by increases in harvest for the other species. Overall declines in harvest have corresponded to reduced hunting pressure.

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 were at least partially the result of high water tables over most of the areas. During General Gun season water levels declined and overall harvest increased significantly.

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 hog harvest on Bear Island is still comparable to earlier years although the 34 hogs taken during 1986-87 represent a 30% increase over the 1985-86 harvest. Bear Island deer harvest is down significantly from 1985-86 (27 vs. 47) but virtually unchanged from 1984-85 (27 vs. 28).

Archery Season

Archery season was open September 6 through September 28. This 23 day season was similar to recent archery seasons on the area. Again this year only antlered deer were legal but the minimum antler length was increased from one to five inches. Wild hogs with a shoulder height of at least 15 inches were also legal game.

During the Archery season two deer and 10 hogs were checked (Table 10). Deer harvest was down while hog harvest was up compared to the prior two year average. Hunting pressure was down significantly compared to the prior two year average.

Muzzleloading Season

For the fourth year Muzzleloading season was 16 days long (October 4 through October 19). A quota of 250 hunters was again established for the

Bear Island unit during the first nine days. This year permits were again available through the normal permit application procedure. During the Muzzleloading hunt, activity was down 15% compared to the prior two year average. Both hog and deer harvest were also significantly reduced from the prior two year average (Table 11).

General Gun Season

The 58 day General Gun season opened on November 8, 1986, and closed on January 4, 1987. Antler requirements on deer were increased to 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 14,115 man-days down 16% from the prior two year average. Hog harvest was up slightly over the prior two year average while deer harvest was down significantly over the prior two year average. Both deer and hog harvest were above the two year mean for the last week of the season.

Deer harvest (114) was 26% below the prior two year average while hog harvest (125) was up 5%. The overall reduction in harvest (13%) parallels the measured decline in hunter activity (16%).

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 1986 was calculated by multiplying the 1984 hunter activity estimate by the ratio of the 1986 vehicle survey to the 1984 vehicle survey. 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 three years are accurately portrayed.

Figure 9 compares hunting pressure by week of General Gun season over the past six 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.

WHITE-TAILED DEER BIOLOGICAL DATA

Herd Composition

The sex ratio of deer in Monument unit and Bear Island as determined by approximately 500 spotlight observations made from August 1984 through June 1986 is 1 buck:3.2 does.

The age structure of does was determined by the pattern of tooth eruption and wear of the lower jaw (Severinghaus 1949), from over 70 does collected from August 1984 through June 1986 (Fig.10). Fawns are not represented in Figure 10 because obviously young animals were selected against during collections.

Appendix C summarizes biological data collected on 75 male deer harvested during the 1986-87 seasons. These deer were aged by tooth wear and eruption (Severinghaus 1949). Age structure of the 1986-87 BCNP harvest is compared to 1985-86 in Figure 10. In 1986-87 the harvest declined for the 1.5 year age class and the fawn age class. The increase in antler length requirements to five inches appears to be responsible for this

shift in harvest to older age classes. The intent of this regulation was to reduce harvest in the lower age classes particularly in the fawn age class. Based on initial results the new regulation appears to be effective.

Table 13 summarizes deer age structure by unit of harvest. The Stairsteps and Bear Island units have the highest portion (53%) in the 1.5 year age class. Loop Road and Monument units have a low percentage (13.3 and 16.7, respectively) in this age class, but the sample sizes are also lower. If the age class percentages for Loop Road and Monument are valid they indicate poor recruitment from the 1985 fawn class on these units. However, track count data from the Monument unit indicates an increasing herd (Table 4).

Physical Characteristics

Table 14 summarizes antler characteristics by age class and unit of harvest. Last year (1985-86) we reported that these characteristics were generally lower (5-10%) than those reported for 1984-85. Overall, values in 1986-87 have increased and they now approximate values for 1984-85. For example, average dressed weight of all animals fluctuated from 72 pounds in 1984 to 66 pounds in 1985 and was measured at 71 pounds in 1986. Likewise antler circumference was 2.4 inches in 1984. This declined to 2.1 inches in 1985 but increased to 2.4 inches in 1986. The reasons for these apparent differences are not known at this time but one possible explanation is an area wide fluctuation in diet and nutrition. However, the doe segment of the herd showed an increase in physical condition from 1984 to 1985 (see below - Physical Status).

Table 15 summarizes the occurrence of spikes by age class and unit of harvest. The overall percent spikes by age class is comparable to the figures reported for 1985-86. However, the five inch antler length limit

did reduce the percentage of spikes with antlers under five inches from 45% in 1985-86 to 12% in 1986-87. Overall compliance with this regulation appeared to be good.

Fourteen deer were collected from Bear Island and the Fakahatchee Strand State Preserve during October 1986. Additionally, 13 were taken as hunter returns from the Fakahatchee Conservation Club (north of S.R. 84) and BCNP during general gun season. Necropsies were performed as outlined by Nettles (1981). Physical condition values were determined according to muscling and coat qualities and by the relative amounts of endogenous fat deposits (Stockle et al 1978). The physical condition of each animal was recorded as poor, fair, good or excellent. Additionally, plus and minus designations for each classification were used. A numerical value of 1-12 was then assigned to the physical condition of each animal. Abomasal parasite counts were performed and analyzed according to Eve and Kellogg (1977).

There has been no change in the pattern of physical and physiological data gathered from deer in Bear Island (Table 16). Deer in Bear Island continue to be larger (Fig. 11), heavier (Fig. 12), possess greater kidney fat indices (Fig. 13) and be in superior physical condition (Fig. 14) as compared to deer inhabiting the Fakahatchee ecosystem. The herd continues to apparently remain slightly below the carrying capacity (Fig. 15). A study to determine fawn survival rates has recently begun on Bear Island with the successful capture and radio instrumentation of 15 does.

Reproductive Status

The mean conception and fawning dates determined from examining nine does were July 28 and February 14, respectively. Conception dates ranged from June 29 to August 21 and fawning dates from January 16 to March 28.

These dates are comparable to mean conception and fawning dates of August 12 and February 27 determined previously from 36 pregnant does collected in BCNP. Natality of BCNP does, as determined from 1984-1986 quarterly collections is over 90% (Schortemeyer and McCown 1986). Among all the adult does collected in the fall of 1986 only one, a 5.5 year old from Fakahatchee Strand State Preserve was found to be barren. There were no twin fetuses (Table 16).

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 401 of the 661 hogs checked over the past four years.

Table 14 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 apparent shift was reversed in 1986-87, the average weight of all hogs was 72.5 pounds and the average shoulder height was 24 inches.

Table 15 compares physical characteristics of male and female hogs harvested over the last three 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 4% greater than females (46 inches vs. 44.5 inches) while shoulder height was 8% greater for males (25 inches vs. 23 inches).

Table 16 compares physical characteristics of wild hogs harvested on Bear Island to those from the Stairsteps unit. Bear Island appears to be superior habitat for wild hogs as well as deer. Many of the same factors are undoubtedly beneficial to both species. In the previous three years the dressed weight for hogs from Bear Island has averaged 18 pounds or 30% more than hogs from the Stairsteps unit. Suprisingly, during the 1986-87 hunting season the mean dressed weight for hogs from Stairsteps was greater than that from Bear Island (Table 18). The decrease in mean dressed weight for Bear Island hogs may indicate a heavy representation of younger animals in the 1986-87 hog harvest. This is probably due to to habitat and environmental conditions at Bear Island being favorable for a rapid increase in the population.

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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 Post hunt	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 Post hunt	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 Aug. 1984	1	2	6	6	14	4.7
	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 Feb. 1985 1 of 2	1	0	0	3	3	1.0
	2	2	2	0	4	1.3
	3	0	0	1	1	0.3
	4	2	2	1	5	1.7
					-----	-----
					13 (b)	1.1
Post-hunt Feb. 1985 2 of 2(c)	1	4	2	0	6	2.0
	2	0	1	2	3	1.0
	3	0	0	0	0	0.0
	4	3	2	3	8	2.7
					-----	-----
					17 (d)	1.4
Pre-hunt Sept. 1985(c)	1	1	7	4	12	4.0
	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 Feb. 1986(c)	1	2	5	2	9	3.0
	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 Sept. 1986	1	3	6	0	9	3.7
	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		
Post-hunt May 1987	1	0	2	5	7	2.3
	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 2. continued

(h) Post-hunt 1986-87 based on 12 miles of transect =
3.75 deer/mile = 1 deer/171 acres;

Post-hunt 1986-87 based on 4.68 miles of suitable
transect = 9.62 deer/mile = 1 deer/67 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	300,00	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)
1986-87 Post-hunt	SRF Aerial Counts	Schortemeyer (under preperation)	50,000	250-500	1:200-100
1986-87 Pre-hunt (2 of 2)	SRF Aerial Counts	Schortemeyer (under preperation)	50,000	330-660	1:152-76
1986-87 Post-hunt (1 of 2)	SRF Aerial Counts	Schortemeyer (under preperation)	50,000	280-560	1:180-90
1985-86 Post-hunt	SRF Aerial Counts	Schortemeyer (under preperation)	50,000	240-480	1:210-105
1985-86 Pre-hunt	SRF Aerial Counts	Schortemeyer (under preperation)	50,000	410-820	1:120-60
1984-85 Post-hunt					
1984-85 LPre-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
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

Table 5. continued

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
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)	3	0	0	0	0.00
	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)

(a) Density estimates based on 5.7% area coverage:

1. 100% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/1.00 = 1 \text{ deer}/158 \text{ acres},$
2. 75% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.75 = 1 \text{ deer}/118 \text{ acres},$
3. 50% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.50 = 1 \text{ deer}/79 \text{ acres},$
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: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/83 \text{ acres},$

Table 6. continued

(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 deer/180 acres,
2. 50% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.50 =$
1 deer/90 acres.
3. 40% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.40 =$
1 deer/72 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 deer/152 acres,
2. 50% of animals observed: $.52 \text{ deer}/79.3 \text{ acres} \times 1/.50 =$
1 deer/76 acres.
3. 40% of animals observed: $.72 \text{ deer}/79.3 \text{ acres} \times 1/.40 =$
1 deer/61 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 deer/200 acres,
2. 50% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.50 =$
1 deer/100 acres.
3. 40% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.40 =$
1 deer/80 acres.

Table 7. Big Cypress National Preserve deer harvest, hog harvest and hunting pressure, 1980-87.

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

(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.

SEASON	DEER					HOG				
	No. Harvested		Hunter Succ. Ratio (a)			No. Harvested		Hunter Succ. Ratio (a)		
	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.		1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.	
Archery	2	4.5	0.002	0.003		10	6.5	0.007	0.004	
Muzzleloader	11	21.0	0.006	0.010		18	28.0	0.009	0.012	
General Gun	114	151.5	0.008	0.009		125	118.5	0.009	0.007	

(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		
	1984-85	1985-86	1986-87	1984-85	1985-86	1986-87	1984-85	1985-86	1986-87
<u>Archery</u>									
Bear Island	2	2	1	6	1	3	825	495	320
Deep Lake	0	0	0	0	0	0	50	60	10
Monument	1	1	0	0	2	4	550	410	430
Stairsteps	0	1	0	2	0	1	260	310	340
Loop	0	2	1	1	1	2	260	150	155
TOTAL	3	6	2	9	4	10	1945	1425	1255
<u>Muzzleloading</u>									
Bear Island	7	15	3	21	5	6	700	605	545
Deep Lake	0	0	0	0	0	0	100	60	60
Monument	2	3	1	2	13	5	1000	670	680
Stairsteps	4	3	2	7	1	6	500	380	400
Loop	3	2	5	4	3	1	275	190	230
TOTAL	16	23	11	34	22	18	2575	1905	1915
<u>General Gun</u>									
Bear Island	19	30	23	33	20	25	3000	2715	3060
Deep Lake	0	1	1	0	2	0	555	485	395
Monument	75	30	20	37	6	19	9060	5760	5265
Stairsteps	76	51	52	68	41	63	5750	3500	4080
Loop	18	15	18	14	16	18	1625	1405	1320
TOTAL	188	127	114	152	85	125	19990	13865	14120
<u>COMBINED</u>									
Bear Island	28	47	27	60	26	34	4525	3815	3925
Deep Lake	0	1	1	0	2	0	705	605	465
Monument	78	34	21	39	21	28	10610	6840	6375
Stairsteps	80	55	54	77	42	70	6510	4190	4820
Loop	21	19	24	19	20	21	2160	1745	1705
TOTAL	207	156	127	195	111	153	24510	17195	17290

Table 10. Archery season harvest summary Big Cypress National Preserve, 1986-87.

WEEK 1986-87 dates	DEER		HOG		HUNTER ACTIVITY (man-days)	
	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.
1 (9-6 to 9-7)	0	0.5	4	2.5	445	625
2 (9-8 to 9-14)	0	2.0	3	3.5	225	405
3 (9-15 to 9-21)	1	1.0	3	0.5	315	295
4 (9-21 to 9-28)	1	1.0		0.0	270	335
TOTAL	2	4.5	10	6.5	1255	1660

Table 11. Muzzleloader season harvest summary Big Cypress National Preserve, 1986-87.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1986-87 Dates	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.
1 (10-4 to 10-5)	1	11.0	6	8.5	840	1045
2 (10-6 to 10-12)	4	7.5	5	13.0	575	680
3 (10-13 to 10-19)	6	2.5	7	6.5	500	515
TOTAL	11	21.0	18	28.0	1915	2240

Table 12. General Gun season harvest summary, Big Cypress National Preserve, 1986-87.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1986-87 Dates	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.	1986-87	Prior 2 yr. avg.
1 (11-8 to 11-9)	34	50	33	26.5	2450	2920
2 (11-10 to 11-16)	32	33.5	28	29.5	2750	2855
3 (11-17 to 11-23)	8	18.5	7	18.5	1285	2390
4 (11-24 to 11-30)	9	12	12	6	1510	1380
5 (12-1 to 12-7)	6	13.5	12	6.5	980	1240
6 (12-8 to 12-14)	5	4	2	9.5	760	965
7 (12-15 to 12-22)	3	7	1	4.5	790	845
8 (12-21 to 12-28)	2	6.5	9	8	1660	2005
9 (12-29 to 1-4)	15	10	21	9.5	1930	2280
TOTAL	114	155	125	118.5	14115	16880

Table 13. Age structure of male white-tailed deer harvested on the Big Cypress National Preserve by unit of harvest, 1986-87.

AGE CLASS	BEAR ISLAND		MONUMENT		LOOP		STAIRSTEPS		ALL UNITS COMBINED	
	#	%	#	%	#	%	#	%	#	%
0.5	0	-	0	-	0	-	0	-	0	-
1.5	10	52.6	1	16.7	2	13.3	20	52.8	33	44.6
2.5	3	15.8	2	33.3	7	46.7	10	29.4	22	29.7
3.5	5	26.3	2	33.3	2	13.3	2	5.9	11	14.9
4.5	1	5.3	1	16.7	2	13.3	2	5.9	6	8.1
5.5+	0	-	0	-	2	13.3	0	-	2	2.7
Sample Size	19		6		15		34		74	

Table 14. Weight and antler characteristics of male deer harvested during 1986-87,
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	9	1	2	18	30	63	50	68	65	64
2.5	3	2	7	10	22	79	75	74	70	74
3.5	5	2	2	2	11	75	-	72	75	73
4.5	1	1	2	2	6	95	-	74	76	79
5.5+	0	0	2	0	2	-	-	73	-	73
TOTAL	18	6	15	32	71	72	62	73	69	71

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	5.1	4.0	6.8	4.7	4.9	16.1	14.0	17.4	13.1	14.2	2.8	2.0	6.0	2.5	2.8
2.5	7.3	5.5	6.7	5.9	6.5	28.0	18.8	24.1	17.5	22.3	5.3	3.0	5.2	3.3	4.3
3.5	7.2	5.9	6.0	7.6	6.6	30.3	24.9	16.5	25.5	24.0	6.0	7.0	3.5	7.0	5.8
4.5	-	6.0	8.0	7.0	7.2	-	30.0	26.2	24.9	26.5	-	8.0	7.0	5.0	6.4
5.5+	-	-	10.2	-	10.6	-	-	37.0	-	37.0	-	-	8.0	-	8.0
TOTAL	6.2	5.5	7.4	5.4	6.0	23.0	21.9	24.0	15.9	19.8	4.4	5.0	5.8	3.2	4.2

(a) Units: I = 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, 1983-87.

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	2	1	0	9	12	33.3	100.0	-	69.2	57.1	-	-	1.0	11.0
2.5	-	-	1	4	5	-	-	20.0	57.1	27.8	-	-	0.1	4.0
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Table 16. Physical and reproductive data on deer collected in Big Cypress National Preserve and Fakahatchee Strand ecosystem, October - November 1986.

GENERAL				REPRODUCTIVE										PHYSIOLOGICAL INDICES														Calculated		APC
Date	Deer No.	Collect. Date	Collect. Locat.	Sex	Age	Wt	Body Lgth	Chest Birth	Preg	Lact	Success Preg	No. Fetuses	Fetus Age	Concep. Date	Fawning Date	Tail Fat	Heart Fat	Peric Fat	Kidney Fat	KFL (x)	Kidney Wt	Aerial Fat Wt	Cond Value	Cond. Value						
-	86-154	15-Oct-86	FS	M	0.75	29.73	119.5	67.5			0						1	2	0	1	5.79	100.2	5.8	4	1.3	1564				
-	86-155	16-Oct-86	FS	F	2.5	32.43	123	73.5	1	0	1	1	56	21-Aug-86	19-Mar-87	2	5	4	2	9.78	83.3	8.15	6	4.3	426					
-	86-156	16-Oct-86	FS	F	5.5	37.27	133	79.5	0	0	0					2	5	5	2	9.85	98.9	8.95	5	4.7	1348					
-	86-157	16-Oct-86	FS	F	0.75	18.18	101.5	55	0	0	0					1	1	0	0	4.14	45.85	1.9	5	0.7	157					
-	86-158	24-Oct-86	FS	M	2.25	52.73	127.5	86.5			0					6	6	6	5	31.9	137	43.7	9	7.6	1624					
-	86-166	23-Oct-86	FS	M	3.5	52.73	134	87.5			0					2	4	2	1	6.6	133.4	8.8	4	3.8	2938					
-	86-167	23-Oct-86	FS	F	2.5	38.18	123.5	75.5	1	0	1	1	185	18-Jul-86	27-Jan-87	3	3	5	1	31.3	93.2	29.2	5	4.8	453					
-	86-159	24-Oct-86	SI	F	2.5	45.45	149	79	1	1	2	1	42	08-Sep-86	26-Mar-87	6	5	5	5	29.45	120.3	24.6	8	7.4	510					
-	86-168	24-Oct-86	SI	F	3	42.73	124.5	81.5	1	0	1	1	185	07-Jul-86	21-Jan-87	5	8	8	6	32.37	96.7	31.3	9	9.8	1378					
-	86-161	24-Oct-86	SI	F	2	44.91	138	78.5	1	0	1	1	91	21-Jul-86	07-Feb-87	6	5	5	2	12.14	93.1	11.3	8	6.8	590					
-	86-162	24-Oct-86	SI	M	0.5	21.82	106	55			0					2	4	2	2	4.72	78.4	3.7	8	3.3	1767					
-	86-163	24-Oct-86	SI	F	0.75	23.64	99.5	68	0	0	0	0				2	2	2	2	4	57.5	6.96	8	2933						
-	86-164	21-Oct-86	SI	F	2.5	44.91	132	84	1	0	1	1	84	29-Jul-86	15-Feb-87	8	5	5	5	27.73	115.4	32	11	6.20						
-	86-165	22-Oct-86	SI	F	2.5	45.45	131	85	1	0	1	1	84	30-Jul-86	16-Feb-87	6	5	8	5	21.6	101.4	21.9	11	8.0	1133					
-	86-177	22-Nov-86	FCC	M	1.5	27.27	113	66			0					2	2	2	2	11.44	81.3	9.3	5	2.7	2590					
-	86-178	22-Nov-86	FCC	M							0													8.8						
-	86-178	22-Nov-86	FCC	M		34.89	124	79			0					3	1	2	2	12.2	95.1	11.6	5	2.7	260					
-	86-179	23-Nov-86	FCC	F	2.5	39.54	127	73	1	0	1	1	117	29-Jun-86	16-Jan-87	2	2	2	0	5.55	129.8	7.2	5		1178					
-	86-184	23-Nov-86	FCC	F	2.5	37.72	121	73	1	0	1	1	112	03-Aug-86	24-Feb-87	4	2	5	6	48.39	91.6	37	6	5.7						
-	86-168	08-Nov-86	SI	M	2.5	58					0					5	3	2	2	21.91	97.2	21.3	8	4.8	480					
-	86-169	08-Nov-86	SS	M	2.5	44.91					0								1	6.82	132.8	8		8.3	1164					
-	86-170	08-Nov-86	SI	M	1.5	51.14					0													8.8	378					
-	86-171	09-Nov-86	LR	M							0								4	19.88	96.9	17.3		1.3	966					
-	86-172	09-Nov-86	MO	M		34.89					0													8.8						
-	86-173	09-Nov-86	SS	M		31.82					0						2	5	2	12.79	86.8	11.1		3.8	1790					
-	86-174	09-Nov-86	SI	M	1.5	39.89					0						2	2	2	2	17.7	82.5	14.6		2.8	778				
-	86-175	09-Nov-86	LR	M	4.5	45.45					0						2	2	2		6.47				1.3					

Table 17. Physical characteristics of wild hogs harvested on the Big Cypress National Preserve, 1983-87.

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)

(a) Body length does not include tail.

Table 18. Comparison by sex of physical characteristics of wild hogs harvested on Big Cypress National Preserve, 1983-87.

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)

Table 19. Comparison of wild hogs harvested on the Big Cypress National Preserve in the Stairsteps and Bear Island units, 1984-87.

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)
	Stairsteps	38	61(20-135)	110 (42-144)	55(24-72)
1984-85	Bear Island	49	74(20-350)	115 (81-164)	61(42-90)
	Stairsteps	44	62(18-136)	113 (77-148)	59(40-82)
1985-86	Bear Island	21	92(50-155)	121(100-143)	68(59-90)
	Stairsteps	23	55(18-145)	111 (76-141)	61(40-82)
1986-87	Bear Island	22	71(20-150)	113 (78-136)	65(36-88)
	Stairsteps	31	80(30-155)	119 (78-155)	65(46-83)

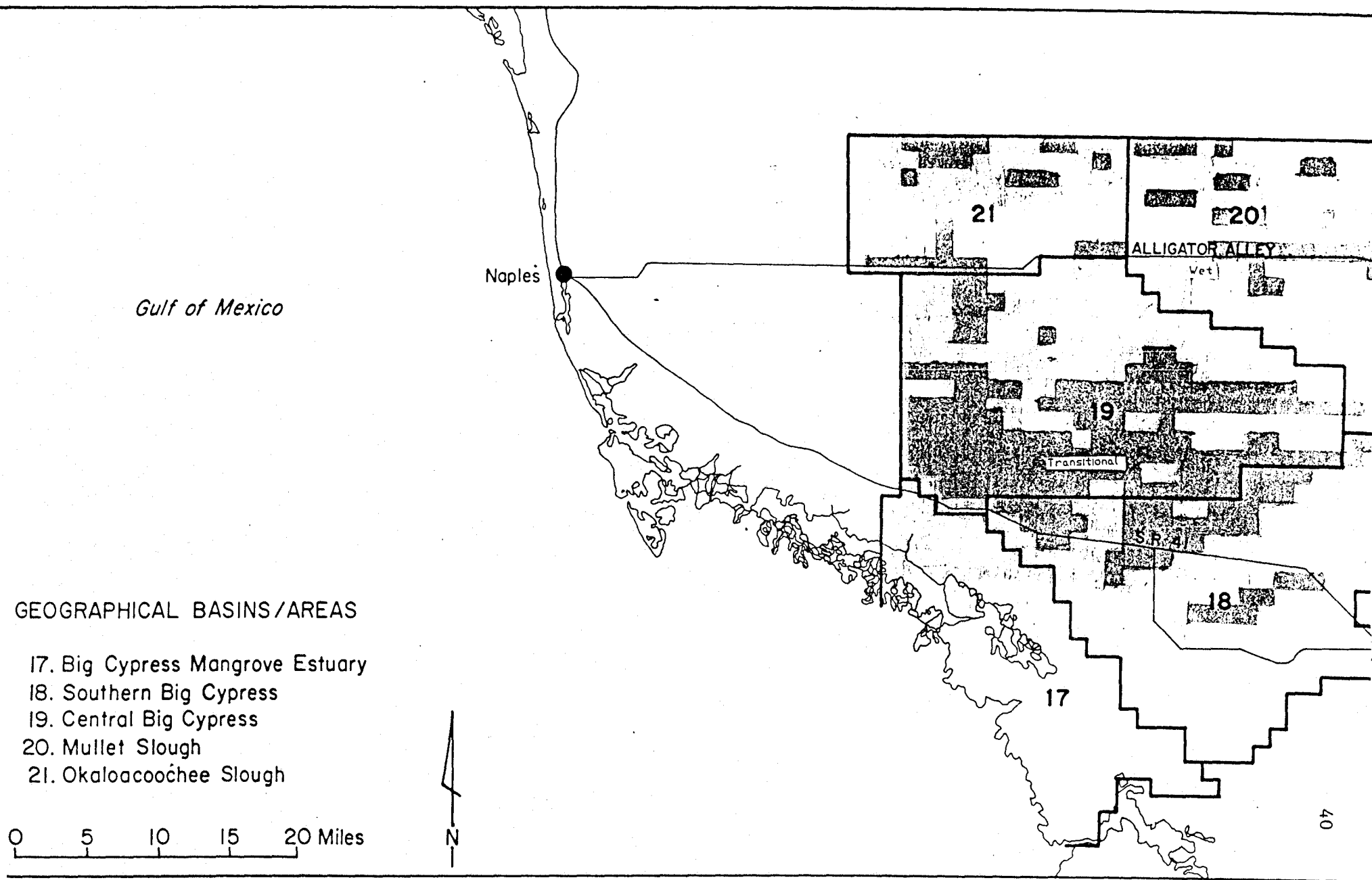
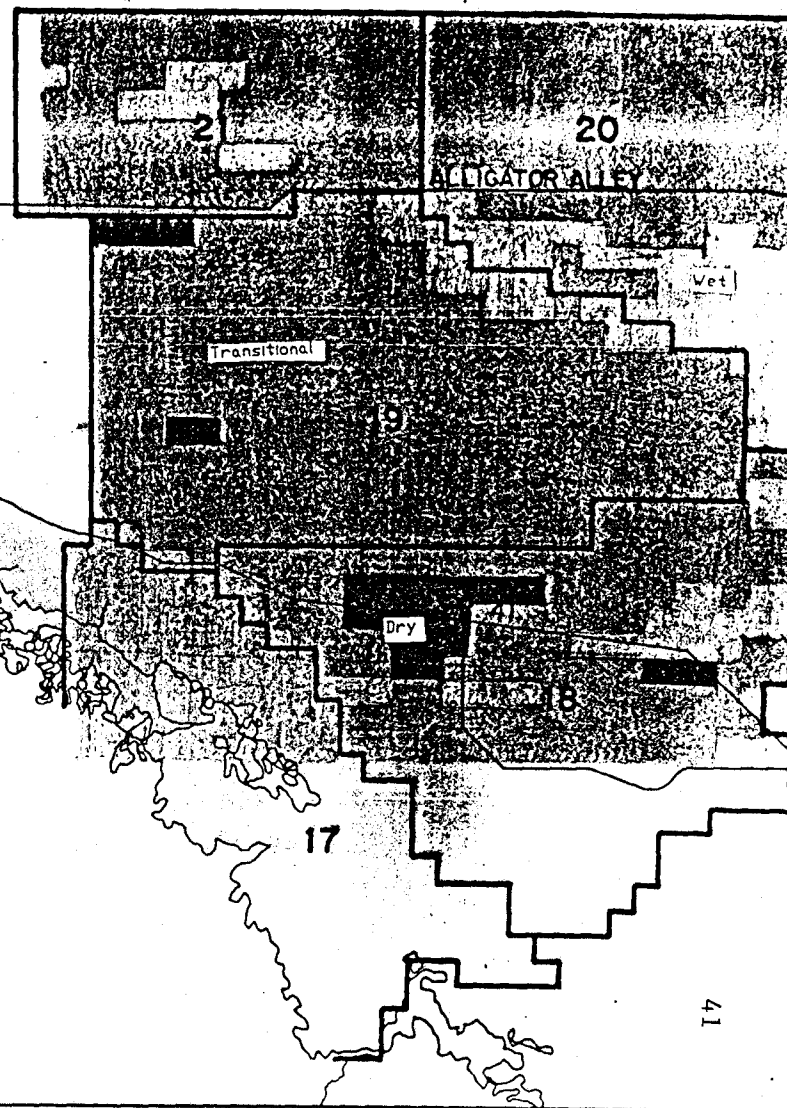


Figure 1. Hydropatterns, Big Cypress Swamp, August 6, 1986.

Gulf of Mexico

Naples



GEOGRAPHICAL BASINS/AREAS

- 17. Big Cypress Mangrove Estuary
- 18. Southern Big Cypress
- 19. Central Big Cypress
- 20. Mullet Slough
- 21. Okaloacoochee Slough

0 5 10 15 20 Miles



Figure 2. Hydropatterns, Big Cypress Swamp, December 2, 1986.

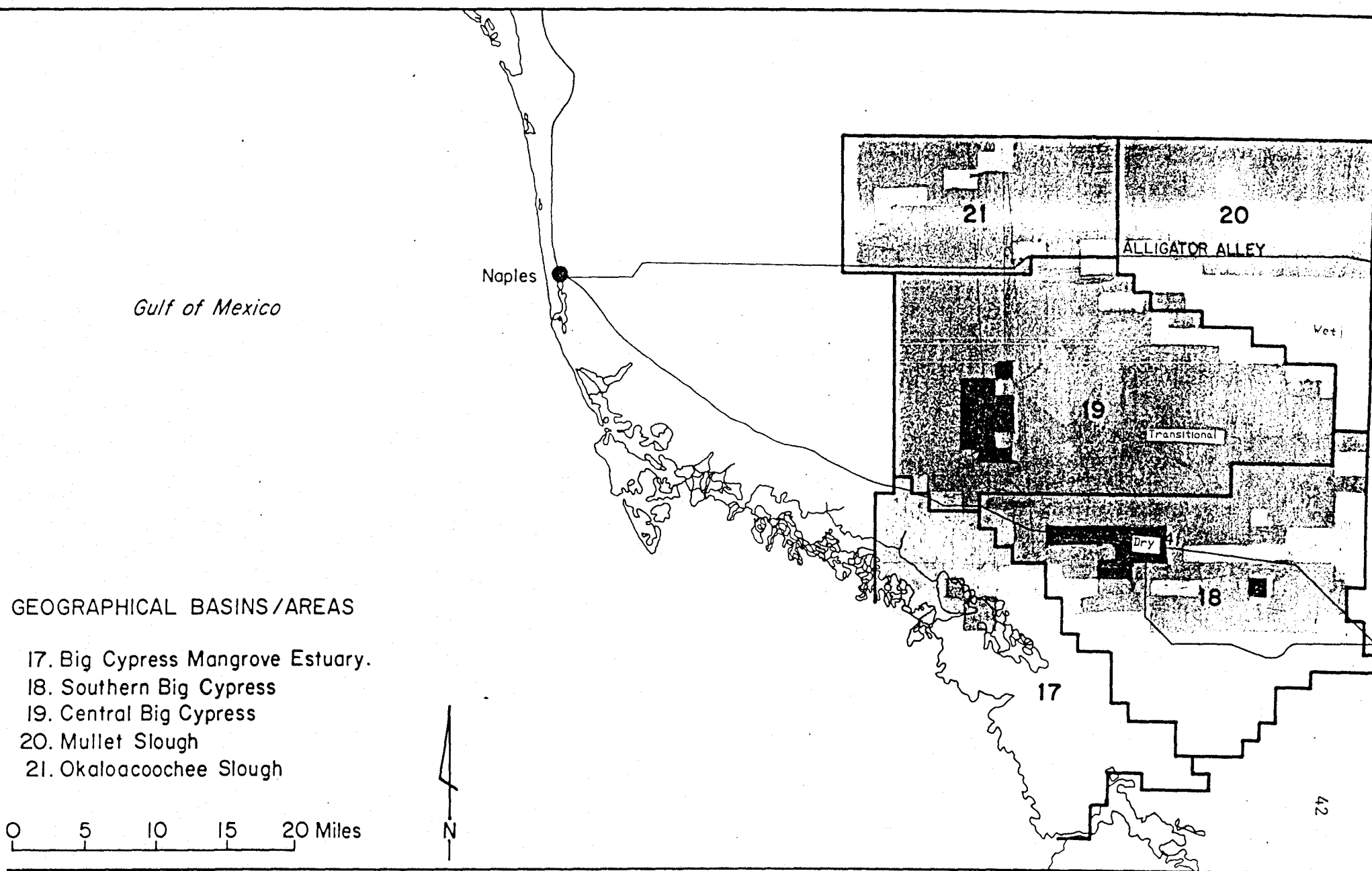


Figure 3. Hydropatterns, Big Cypress Swamp, February 2, 1987.

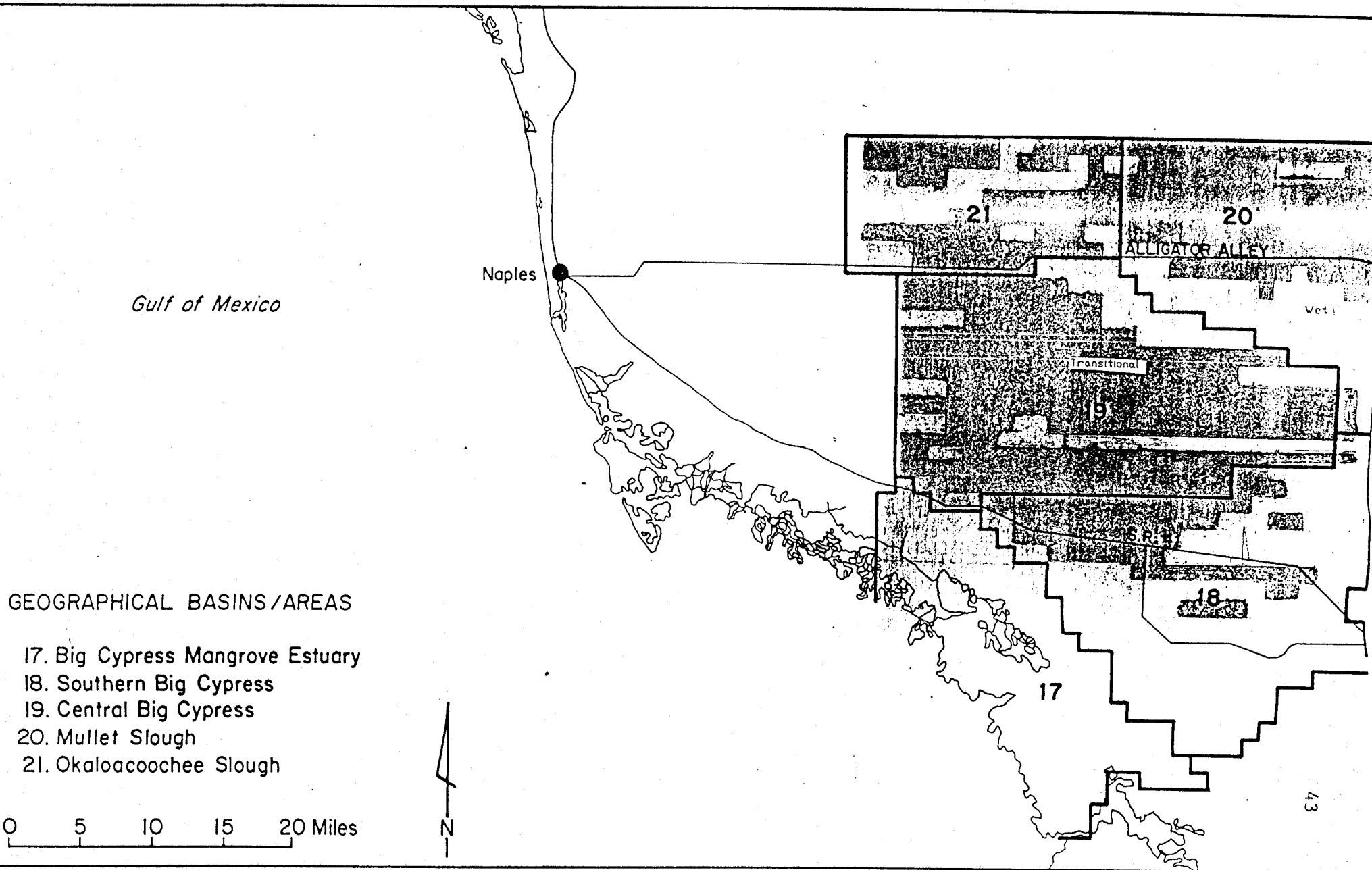


Figure 4. Hydropatterns, Big Cypress Swamp, April 6, 1987.

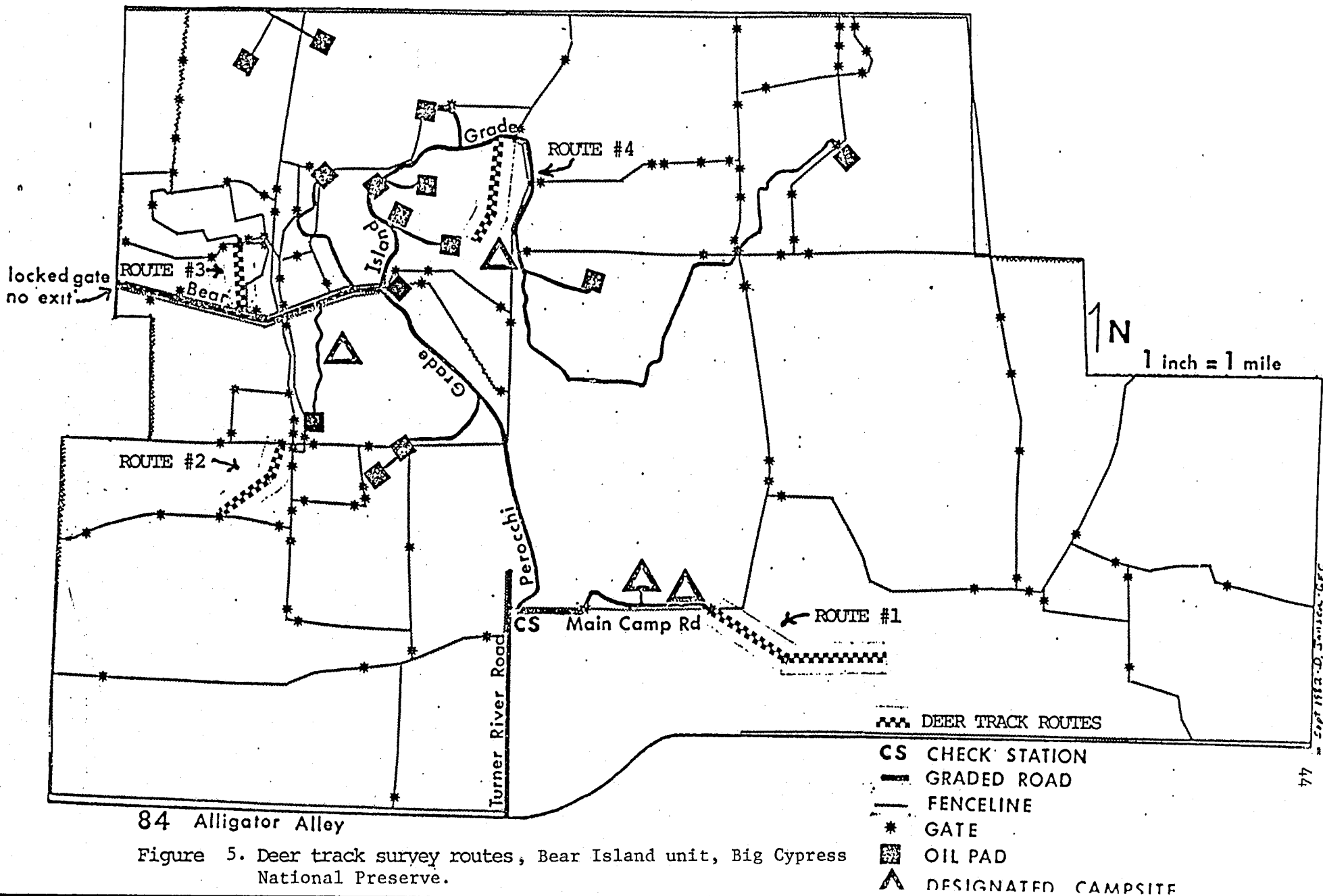
PLEASE:

LEAVE GATES AS YOU FIND THEM.

RECYCLE ALUMINUM CANS AT DESIGNATED SITES.

BEAR ISLAND UNIT

BIG CYPRESS WILDLIFE MANAGEMENT AREA



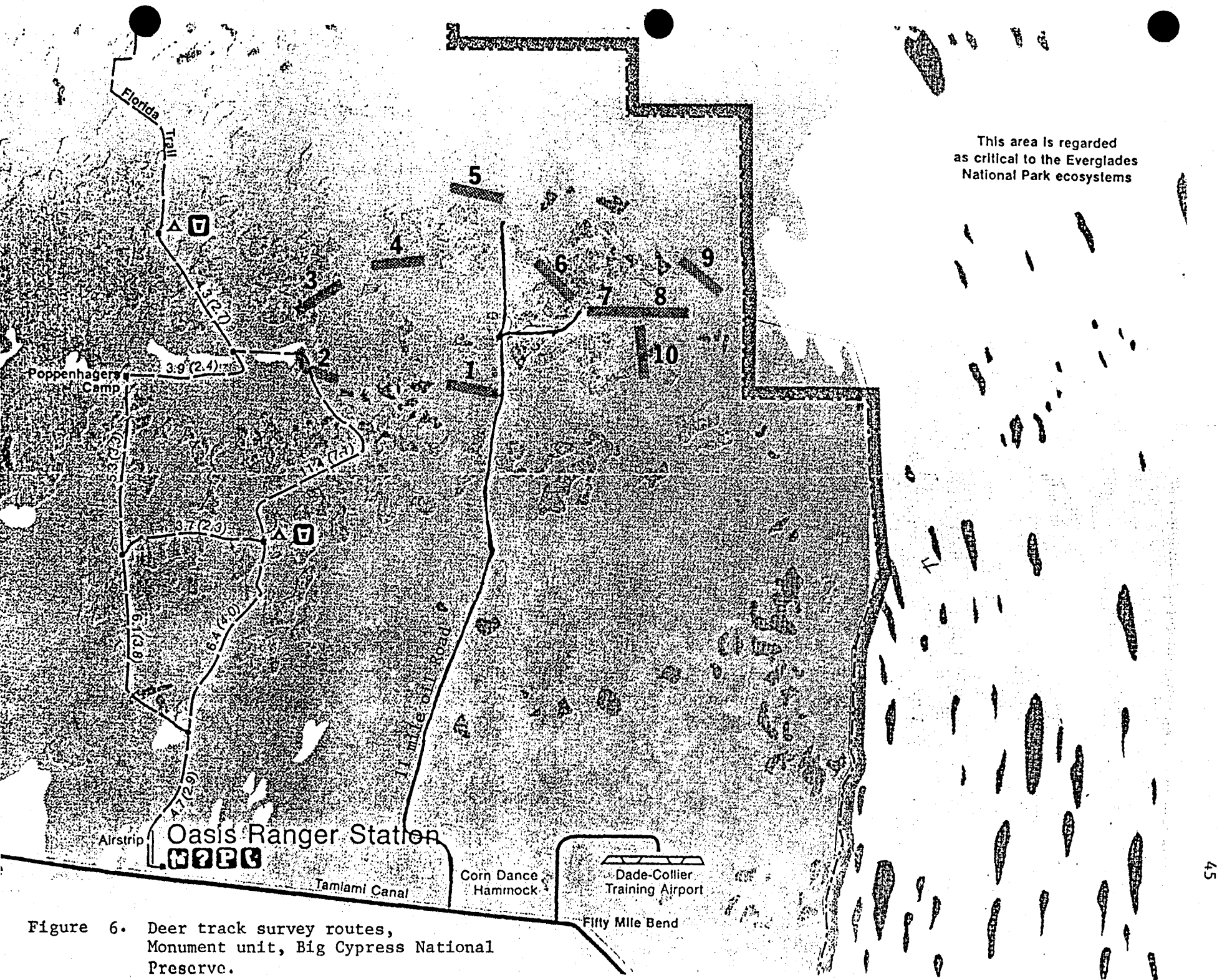




Figure 7. Survey transects and general survey area for aerial deer census, eastern Stairsteps unit, 1985-87.

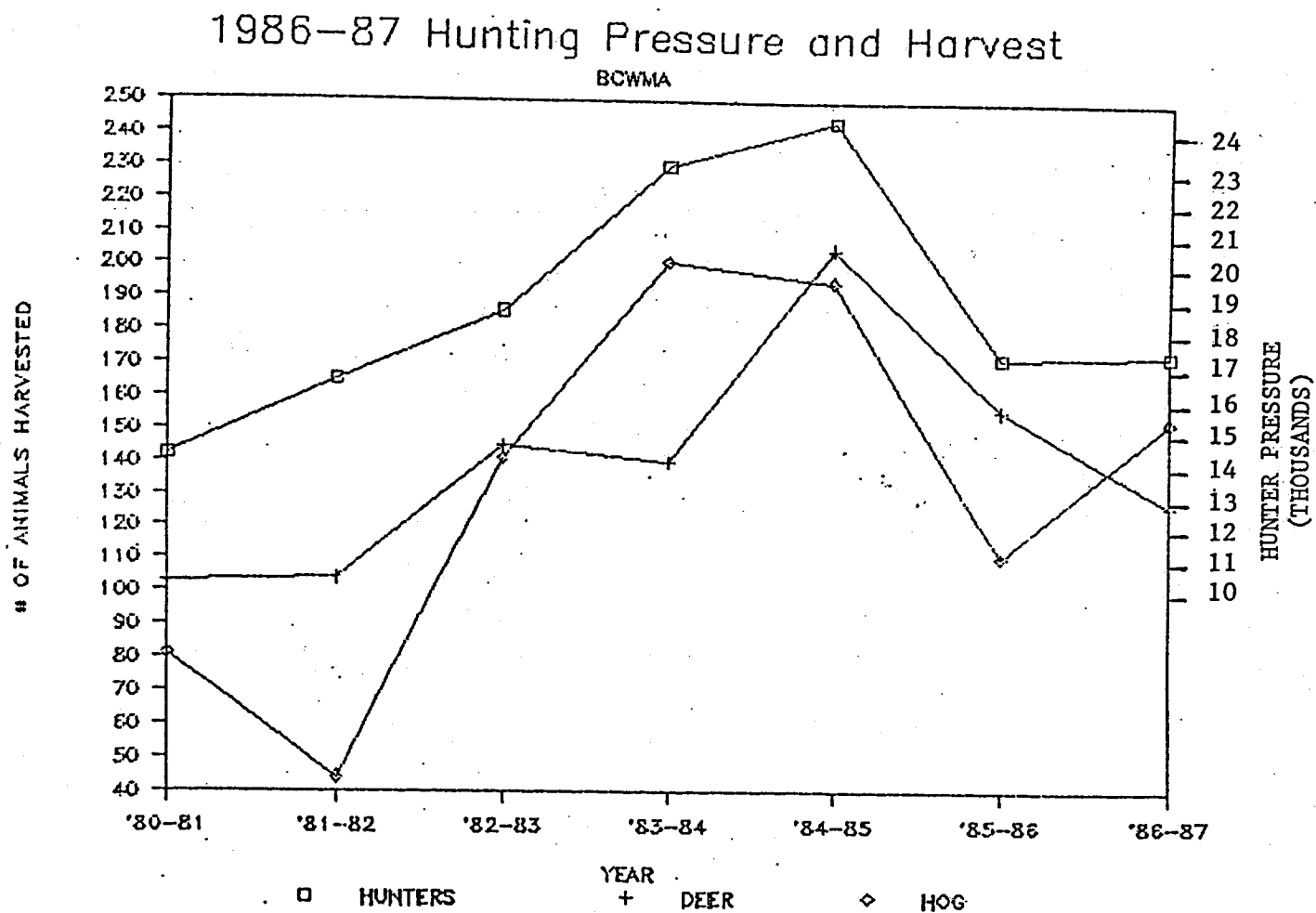


Figure 8. Hunting pressure and harvest of wild hog and white-tailed deer on the Big Cypress National Preserve, 1980-87.

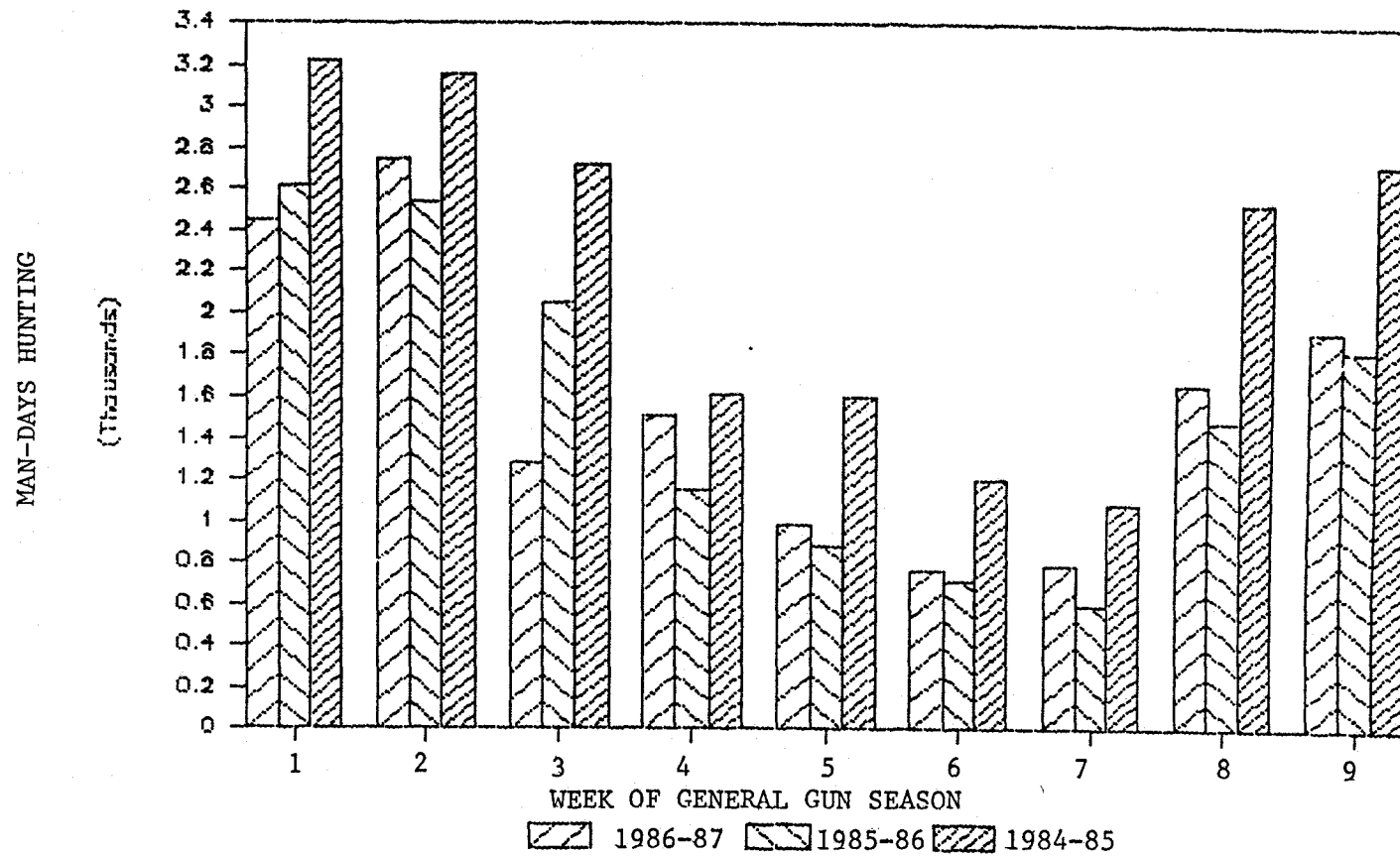


Figure 9. General Gun season hunting pressure by week, Big Cypress National Preserve, 1984-87.

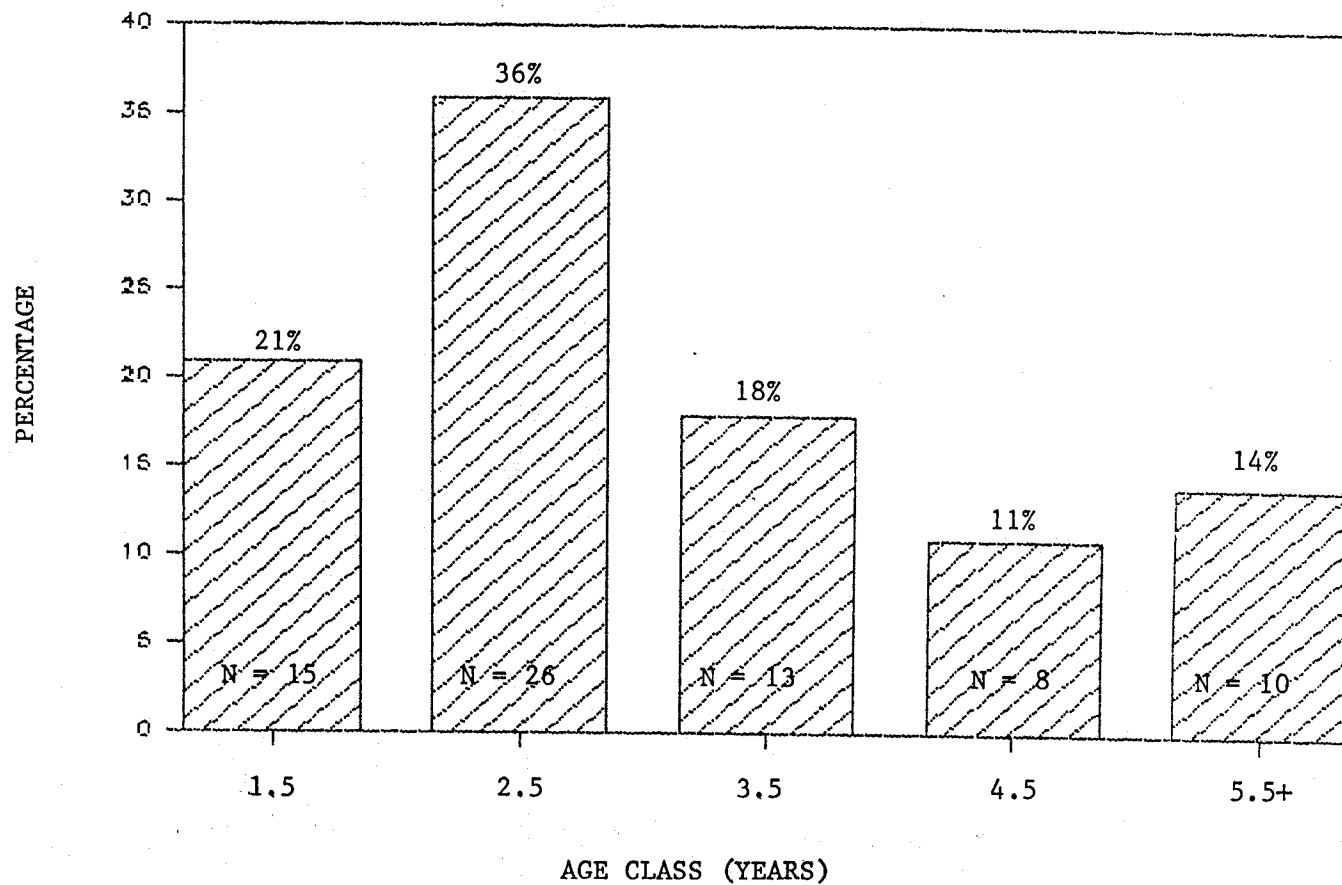


Figure 10. Age structure of female white-tailed deer collected in the Bear Island unit and Monument unit of BCNP (Aug. 84 - June 86).*

* Does were collected throughout the year; for comparison purposes, ages of does collected in March and June were rounded up as if the animal had been harvested the following hunting season.

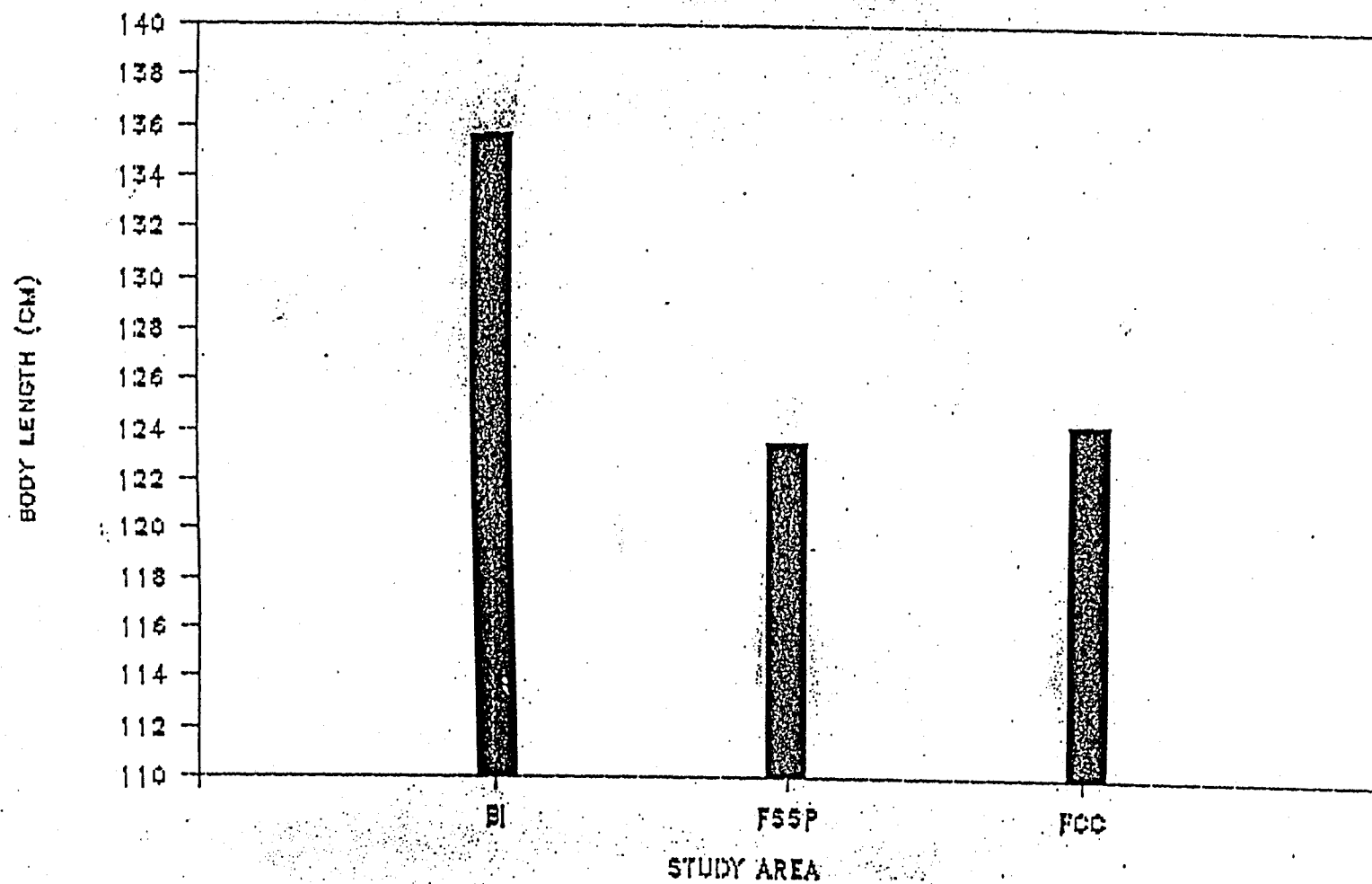


Figure 11. Mean body lengths of 2.5 year old doe deer collected in October and November 1986.

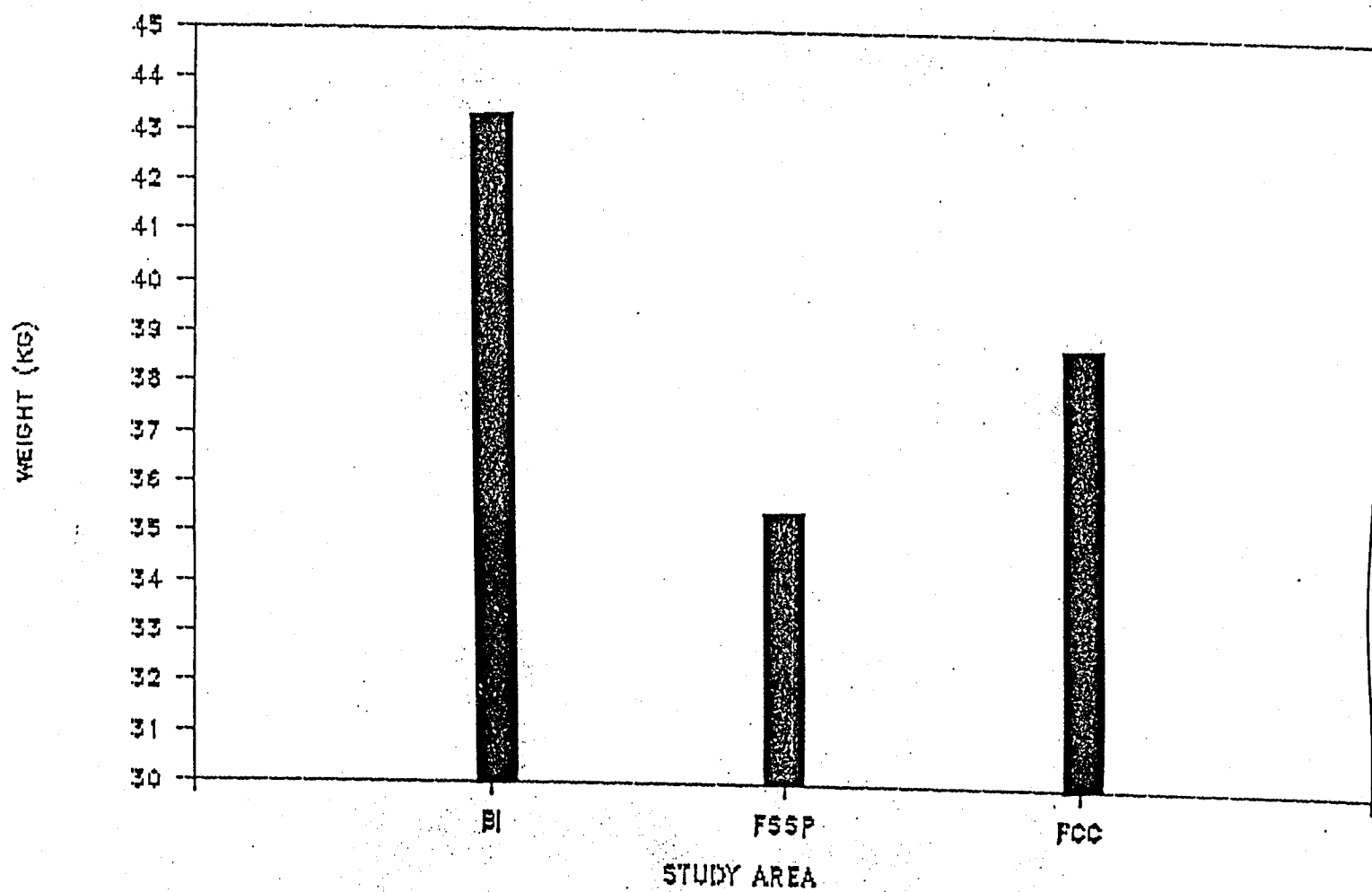


Figure 12. Mean weights of 2.5 year old doe deer collected in October and November 1986.

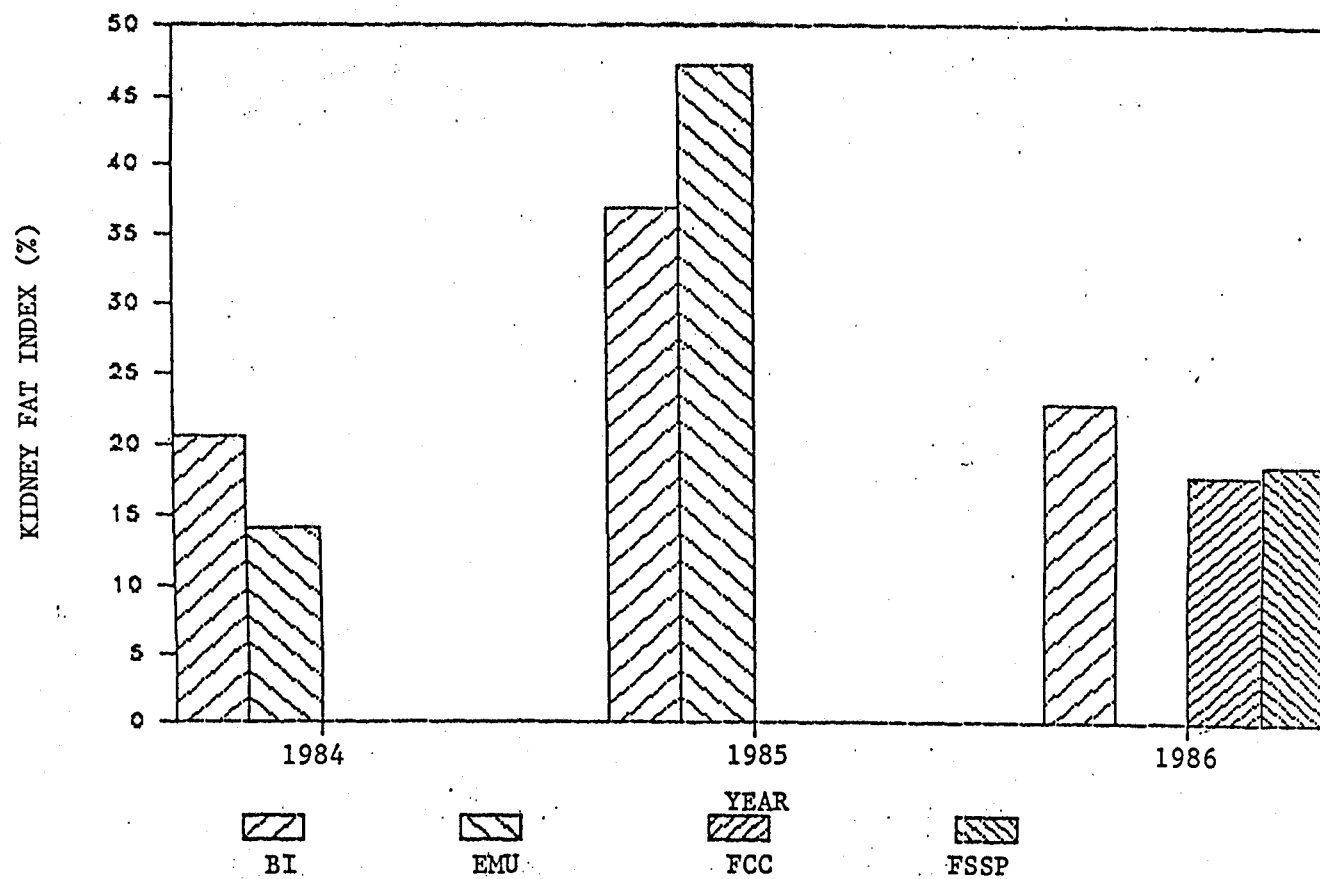


Figure 13. Kidney fat indices of adult deer obtained during October and November 1986.

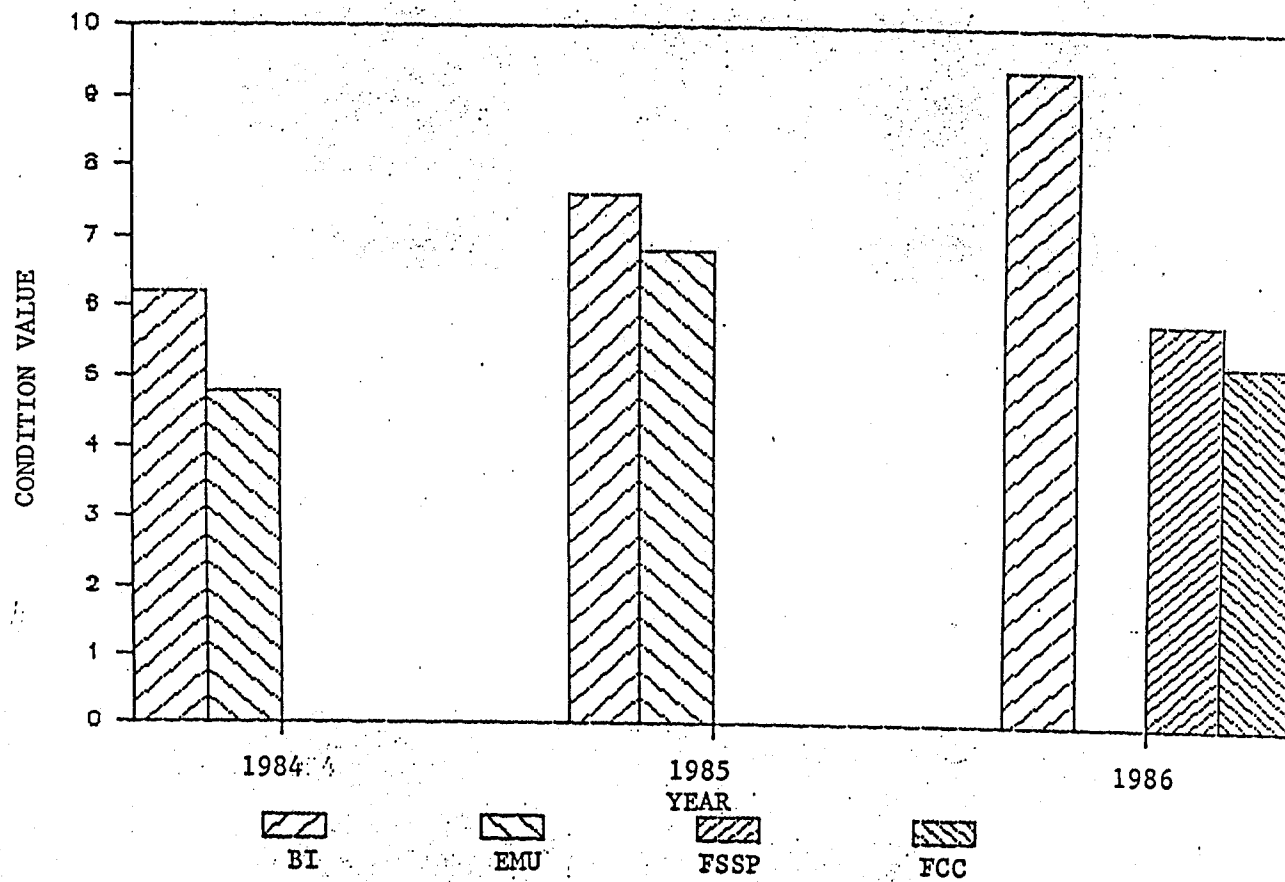


Figure 14. Mean condition values of adult deer obtained during October and November 1986.

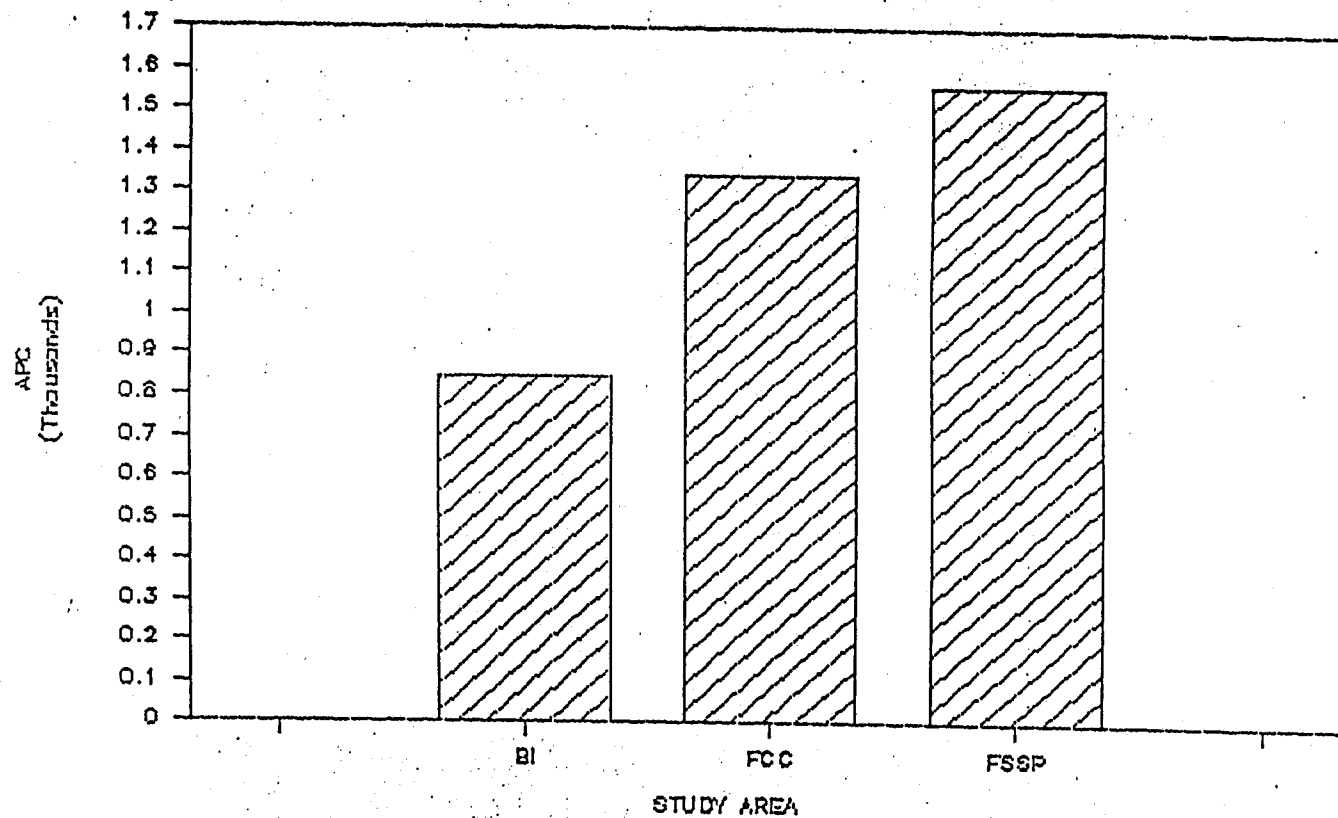
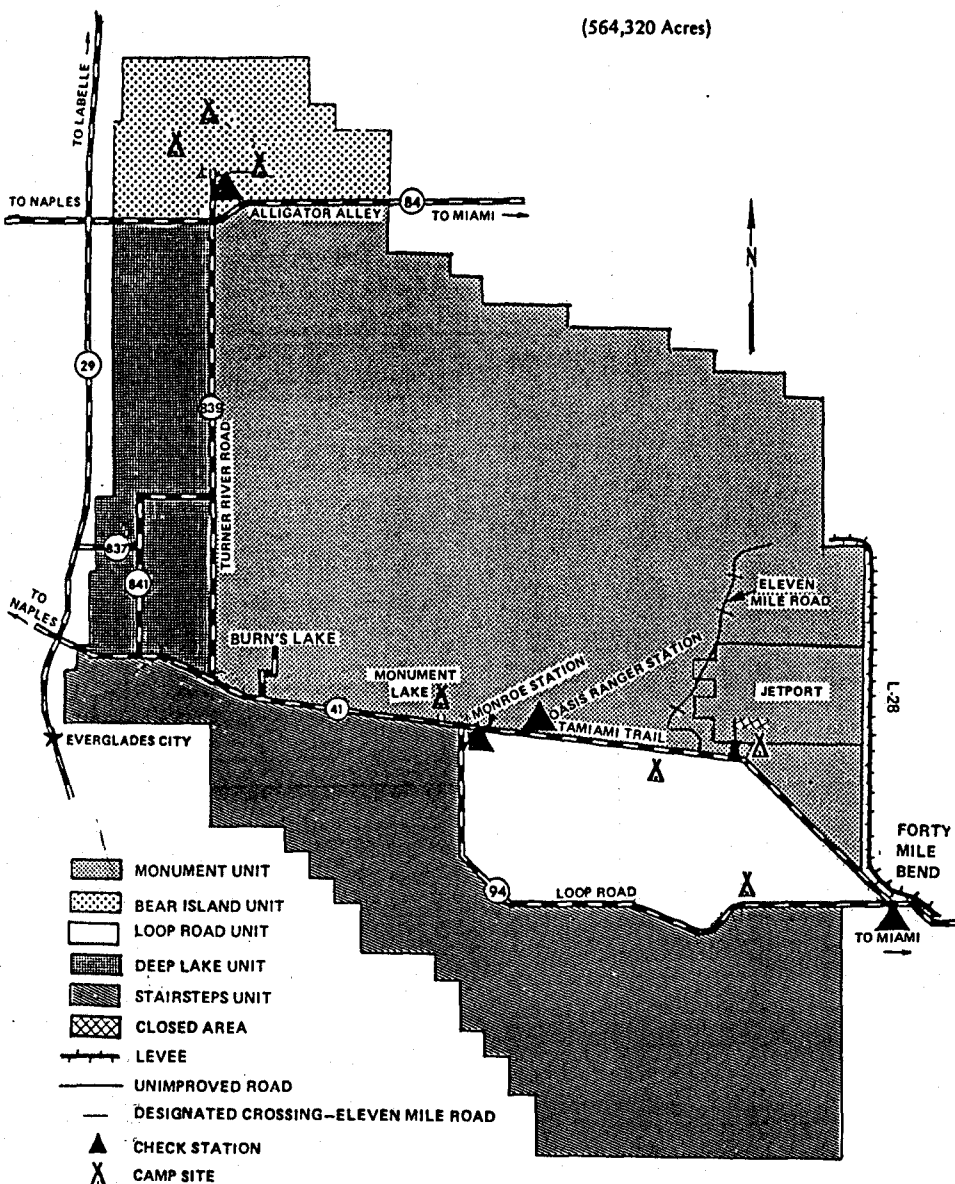


Figure 15. Abomasal parasite values of adult deer collected October and November 1986.

Appendix A. Big Cypress Wildlife Management Area Regulations, 1986-87.

BIG CYPRESS WILDLIFE MANAGEMENT AREA

(564,320 Acres)



BIG CYPRESS WILDLIFE MANAGEMENT AREA 1986-87 REGULATIONS SUMMARY AND AREA MAP



85/6-307



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 1986-87 Florida Hunting Handbook and the 1986-87 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 AND LICENSE INFORMATION:

Persons utilizing the wildlife management areas are required to have appropriate licenses 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 and permits from the county tax collector. Hunters under age 16 are exempt from all permit and license requirements.

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 Permit: This \$10 permit 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 8 through 16 of the general gun hunt. A no-cost special quota hunt permit is required to hunt on the Bear Island Unit from October 4 through 12 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 4 through 12).

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 Permit: This \$5 permit is required when hunting during the archery hunt. This permit is available from county tax collectors or their subagents.
5. Muzzleloading Gun Permit: This \$5 permit is required when hunting during the muzzleloading gun hunt. This permit is available from county tax collectors or their subagents.
6. Wild Turkey Stamp: This \$5 permit is required if hunting turkeys and may be purchased from county tax collectors or their subagents.
7. State Waterfowl Stamp: This \$3.25 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.
10. Special Big Cypress Vehicle Permit: Any aircraft or vehicle used for hunting, fishing or frogging in the Big Cypress Wildlife Management Area must have this permit. This permit is free and must be renewed annually. Applications for special Big Cypress vehicle permits are available at regional offices of the Commission.

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, coyote, 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.

Appendix B. Summary of vehicle surveys conducted on the Big Cypress National Preserve during selected hunting seasons, 1983-87.

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

Appendix B

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

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 1986-87 hunting seasons on the Big Cypress Wildlife Management Area.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						REPORT # 3
DATA COLLECTED ON		74 DEER (74 BUCKS, 0 DOES) IN THIS AREA IN THE 1986-87 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	44.6% (33)	29.7 31.1% (23)	14.9 13.5% (10)	8.1% (6)	2.7% (2)	100.0% (74)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	44.6% (33)	29.7 31.1% (23)	14.9 13.5% (10)	8.1% (6)	2.7% (2)	100.0% (74)
AVERAGES				22	//			TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	84.50 (4) (70 TO 98)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	102.50 (2) (100 TO 105)	***** (0) (*** TO ***)	90.50 (6) (70 TO 105)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	84.50 (4) (70 TO 98)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	102.50 (2) (100 TO 105)	***** (0) (*** TO ***)	90.50 (6) (70 TO 105)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	63.78 (18) (50 TO 80)	73.65 (20) (56 TO 90)	72.71 (7) (60 TO 80)	78.60 (5) (65 TO 95)	72.50 (2) (55 TO 90)	70.54 (52) (50 TO 95)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	63.78 (18) (50 TO 80)	73.65 (20) (56 TO 90)	72.71 (7) (60 TO 80)	78.60 (5) (65 TO 95)	72.50 (2) (55 TO 90)	70.54 (52) (50 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) (*****-*****)	4.91 (30) (4.00- 7.50)	6.48 (23) (4.00-10.50)	6.55 (10) (5.00- 9.00)	7.20 (5) (5.00- 9.00)	10.62 (2) (10.00-12.00)	6.04 (74) (4.00-12.00)

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						REPORT # 3
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS		***** (0) (*****-*****)	14.18 (32) (5.00-27.50)	22.27 (23) (10.00-41.50)	24.00 (10) (15.00-30.00)	26.45 (5) (21.00-31.00)	37.00 (2) (35.00-38.00)	19.78 (72) (5.00-41.50)
NUMBER OF POINTS								
2		0(*****%)	12(57.14%)	5(27.78%)	1(12.50%)	0(0.00%)	0(0.00%)	18(33.33%)
3		0(*****%)	4(19.05%)	3(16.67%)	0(0.00%)	0(0.00%)	0(0.00%)	7(12.96%)
4		0(*****%)	4(19.05%)	2(11.11%)	0(0.00%)	1(20.00%)	0(0.00%)	7(12.96%)
5		0(*****%)	0(0.00%)	4(22.22%)	2(25.00%)	1(20.00%)	0(0.00%)	7(12.96%)
6		0(*****%)	1(4.76%)	1(5.56%)	2(25.00%)	1(20.00%)	0(0.00%)	5(9.26%)
7		0(*****%)	0(0.00%)	0(0.00%)	2(25.00%)	0(0.00%)	0(0.00%)	2(3.70%)
8		0(*****%)	0(0.00%)	3(16.67%)	1(12.50%)	1(20.00%)	2(100.00%)	7(12.96%)
9		0(*****%)	0(0.00%)	0(0.00%)	0(0.00%)	1(20.00%)	0(0.00%)	1(1.85%)
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%)	0(0.00%)	0(0.00%)
AVERAGE		****	2.8	4.2	5.8	6.4	8.0	4.2

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(*****%)	

ABDOMASUM 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 NC. OF LUNG WORMS PER INFECTED DEER : ***(** TO ***)
 % OF EXAMINED DEER WITH LIVER FLUKES : *****% (0 OUT OF 0)
 AVERAGE NC. OF LIVER FLUKES PER INFECTED DEER : ***(** TO ***)

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 1		REPORT # 9	
DATA COLLECTED ON		19 DEER (19 BUCKS, 0 DOES) IN THIS AREA IN THE 1986-87 SEASON							
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL	
HARVEST BY SEX									
BUCKS	0.0% (0)	52.6% (10)	15.6% (3)	26.3% (5)	5.3% (1)	0.0% (0)	100.0% (19)		
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL	0.0% (0)	52.6% (10)	15.6% (3)	26.3% (5)	5.3% (1)	0.0% (0)	100.0% (19)		
AVERAGES									
LIVE WEIGHT (LBS)								TOTAL 1.5+	
BUCKS	***** (0) (*** TO ***)	89.33 (3) (82 TO 98)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	89.33 (3) (82 TO 98)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	89.33 (3) (82 TO 98)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	89.33 (3) (82 TO 98)	
30% WEIGHT (LBS)									
BUCKS	***** (0) (*** TO ***)	63.00 (6) (56 TO 73)	78.67 (3) (74 TO 87)	75.00 (5) (60 TO 86)	95.00 (1) (95 TO 95)	***** (0) (*** TO ***)	72.27 (15) (56 TO 95)		
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	63.00 (6) (56 TO 73)	78.67 (3) (74 TO 87)	75.00 (5) (60 TO 86)	95.00 (1) (95 TO 95)	***** (0) (*** TO ***)	72.27 (15) (56 TO 95)		
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) (*****-*****)	5.11 (9) (4.00-7.00)	7.33 (3) (6.50-8.50)	7.23 (5) (6.00-10.50)	***** (0) (*****-*****)	***** (0) (*****-*****)	6.23 (17) (4.00-10.50)		

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA			ZONE NO. 1		REPORT # 9	
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS	***** (0) (*****-*****)	16.12 (9) (11.00-27.50)	28.03 (3) (24.00-32.50)	30.33 (5) (23.50-41.50)	***** (0) (*****-*****)	***** (0) (*****-*****)	23.00 (17) (11.00-41.50)	
NUMBER OF POINTS								
2	0(*****Z)	2(33.33Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	2(15.38Z)	
3	0(*****Z)	3(50.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	3(23.08Z)	
4	0(*****Z)	1(16.67Z)	2(66.67Z)	0(0.00Z)	0(*****Z)	0(*****Z)	3(23.08Z)	
5	0(*****Z)	0(0.00Z)	0(0.00Z)	1(25.00Z)	0(*****Z)	0(*****Z)	1(7.69Z)	
6	0(*****Z)	0(0.00Z)	0(0.00Z)	2(50.00Z)	0(*****Z)	0(*****Z)	2(15.38Z)	
7	0(*****Z)	0(0.00Z)	0(0.00Z)	1(25.00Z)	0(*****Z)	0(*****Z)	1(7.69Z)	
8	0(*****Z)	0(0.00Z)	1(33.33Z)	0(0.00Z)	0(*****Z)	0(*****Z)	1(7.69Z)	
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)	
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)	
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)	
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)	
AVERAGE	****	2.8	5.3	6.0	****	****	4.4	
SUMMARY OF REPRODUCTION								
FAWNS PER EXAMINED DOE FRCH 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) (*****-*****)	NUMBER OF ADULT(1.5+) DOES WITH						0 FETUSES = 0(*****Z)	
AVG. PARTURITION DATE ***** (0) (*****-*****)							1 FETUS = 0(*****Z)	
							2 FETUSES = 0(*****Z)	
							3 FETUSES = 0(*****Z)	
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		: *****Z (0 OUT OF 0)						
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER		: ***(** TO **)						
% OF EXAMINED DEER WITH LIVER FLUKES		: *****Z (0 OUT OF 0)						
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER		: *** (** TO **)						

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA					ZONE NO. 3	REPORT # 10
DATA COLLECTED ON		6 DEER (6 BUCKS, 0 DOES) IN THIS AREA IN THE 1986-87 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	16.7% (1)	33.3% (2)	33.3% (2)	16.7% (1)	0.0% (0)	100.0% (6)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	16.7% (1)	33.3% (2)	33.3% (2)	16.7% (1)	0.0% (0)	100.0% (6)
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 ***)	50.00 (1) (50 TO 50)	75.00 (1) (75 TO 75)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	62.50 (2) (50 TO 75)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	50.00 (1) (50 TO 50)	75.00 (1) (75 TO 75)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	62.50 (2) (50 TO 75)
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) (*****-*****)	4.00 (1) (4.00-4.00)	5.50 (2) (5.00-6.00)	5.87 (2) (5.00-7.00)	6.00 (1) (6.00-6.00)	***** (0) (*****-*****)	5.46 (6) (4.00-7.00)

APPENDIX C

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT # 10
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0) (*****-*****)	14.00 (1) (13.00-15.00)	18.75 (2) (17.00-21.00)	24.87 (2) (22.00-28.00)	30.00 (1) (29.00-31.00)	***** (0) (*****-*****)	21.87 (6) (13.00-31.00)
NUMBER OF POINTS							
2	0(*****Z)	1(100.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	1(16.67Z)
3	0(*****Z)	0(0.00Z)	2(100.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	2(33.33Z)
4	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
5	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
6	0(*****Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
8	0(*****Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	1(100.00Z)	0(*****Z)	2(33.33Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
AVERAGE	****	2.0	3.0	7.0	8.0	****	5.0
SUMMARY OF REPRODUCTION							
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(*****Z)	
						1 FETUS = 0(*****Z)	
						2 FETUSES = 0(*****Z)	
						3 FETUSES = 0(*****Z)	
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			: *****Z (0 OUT OF 0)				
AVERAGE NC. OF LUNG WORMS PER INFECTED DEER			: ***(** TO **)				
% OF EXAMINED DEER WITH LIVER FLUKES			: *****Z (0 OUT OF 0)				
AVERAGE NC. OF LIVER FLUKES PER INFECTED DEER			: *** (** TO **)				

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 4		REPORT # 11	
DATA COLLECTED ON		15 DEER (15 BUCKS, 0 DOES) IN THIS AREA IN THE 1986-87 SEASON							
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL	
HARVEST BY SEX									
BUCKS		0.0% (0)	13.3% (2)	46.7% (7)	13.3% (2)	13.3% (2)	13.3% (2)	100.0% (15)	
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL		0.0% (0)	13.3% (2)	46.7% (7)	13.3% (2)	13.3% (2)	13.3% (2)	100.0% (15)	
AVERAGES									TOTAL 1.5+
LIVE WEIGHT (LBS)									
BUCKS		***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	100.00 (1) (100 TO 100)	***** (0) (** TO **)	100.00 (1) (100 TO 100)	
DOES		***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	
TOTAL		***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	100.00 (1) (100 TO 100)	***** (0) (** TO **)	100.00 (1) (100 TO 100)	
30% WEIGHT (LBS)									
BUCKS		***** (0) (** TO **)	67.50 (2) (55 TO 80)	73.71 (7) (56 TO 90)	72.50 (2) (70 TO 75)	73.50 (2) (72 TO 75)	72.50 (2) (55 TO 90)	72.53 (15) (55 TO 90)	
DOES		***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	***** (0) (** TO **)	
TOTAL		***** (0) (** TO **)	67.50 (2) (55 TO 80)	73.71 (7) (56 TO 90)	72.50 (2) (70 TO 75)	73.50 (2) (72 TO 75)	72.50 (2) (55 TO 90)	72.53 (15) (55 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) (*****-*****)	6.83 (2) (5.50- 7.50)	6.71 (7) (4.00- 9.00)	6.00 (2) (5.00- 7.00)	8.00 (2) (7.00- 9.00)	10.62 (2) (10.00-12.00)	7.39 (15) (4.00-12.00)	

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)							
BUCKS	***** (0) (*****-*****)	17.33 (2) (14.00-20.00)	24.07 (7) (10.00-40.80)	16.50 (2) (15.00-18.00)	26.25 (2) (24.00-30.00)	37.00 (2) (35.00-38.00)	23.96 (15) (10.00-40.80)
NUMBER OF POINTS							
2	0(*****Z)	0(0.00Z)	1(20.00Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	2(16.67Z)
3	0(*****Z)	0(0.00Z)	1(20.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(8.33Z)
4	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
5	0(*****Z)	0(0.00Z)	1(20.00Z)	1(50.00Z)	1(50.00Z)	0(0.00Z)	3(25.00Z)
6	0(*****Z)	1(100.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(8.33Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
8	0(*****Z)	0(0.00Z)	2(40.00Z)	0(0.00Z)	0(0.00Z)	2(100.00Z)	4(33.33Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	1(8.33Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
AVERAGE	****	6.0	5.2	3.5	7.0	8.0	5.8
SUMMARY OF REPRODUCTION							
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(*****Z)		
					1 FETUS = 0(*****Z)		
					2 FETUSES = 0(*****Z)		
					3 FETUSES = 0(*****Z)		
ABOMASUM PARASITE COUNT SUMMARY							
FAWNS	***** (0) (*****-*****)				***** (0) (*****-*****)		
ADULTS	***** (0) (*****-*****)				***** (0) (*****-*****)		
TOTAL	***** (0) (*****-*****)				***** (0) (*****-*****)		
NUMBER LARGE WORMS							
FAWNS							
ADULTS							
TOTAL							
% OF EXAMINED DEER WITH LUNG WORMS	: *****Z (0 OUT OF 0)						
AVERAGE NC. OF LUNG WORMS PER INFECTED DEER	: *** (*** TO ***)						
% OF EXAMINED DEER WITH LIVER FLUKES	: *****Z (0 OUT OF 0)						
AVERAGE NC. OF LIVER FLUKES PER INFECTED DEER	: *** (*** TO ***)						

APPENDIX C

BIG CYPRESS		WILDLIFE MANAGEMENT AREA			ZONE NO. 5		REPORT # 12	
DATA COLLECTED ON		34 DEER (34 BUCKS, 0 DOES) IN THIS AREA IN THE 1986-87 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	58.8% (20)	29.4% (10)	5.9% (2)	5.9% (2)	0.0% (0)	100.0% (34)
DOES		*****% (0)	*****% (0)	*****% (0)	*****% (0)	*****% (0)	*****% (0)	*****% (0)
TOTAL		0.0% (0)	58.8% (20)	29.4% (10)	5.9% (2)	5.9% (2)	0.0% (0)	100.0% (34)
AVERAGES								TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO **)	70.00 (1) (70 TO 70)	***** (0) (*** TO **)	***** (0) (*** TO **)	105.00 (1) (105 TO 105)	***** (0) (*** TO **)	87.50 (2) (70 TO 105)
DOES		***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)
TOTAL		***** (0) (*** TO **)	70.00 (1) (70 TO 70)	***** (0) (*** TO **)	***** (0) (*** TO **)	105.00 (1) (105 TO 105)	***** (0) (*** TO **)	87.50 (2) (70 TO 105)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO **)	65.00 (9) (55 TO 75)	70.00 (8) (65 TO 80)	75.00 (1) (75 TO 75)	75.50 (2) (65 TO 86)	***** (0) (*** TO **)	68.55 (20) (55 TO 86)
DOES		***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)	***** (0) (*** TO **)
TOTAL		***** (0) (*** TO **)	65.00 (9) (55 TO 75)	70.00 (8) (65 TO 80)	75.00 (1) (75 TO 75)	75.50 (2) (65 TO 86)	***** (0) (*** TO **)	68.55 (20) (55 TO 86)
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) (*****-*****)	4.69 (18) (4.00- 7.00)	5.94 (10) (4.50- 7.50)	7.62 (2) (6.50- 9.00)	7.00 (2) (5.00- 8.50)	***** (0) (*****-*****)	5.44 (32) (4.00- 9.00)

APPENDIX C

BIG CYPRESS AGE CLASS	WILDLIFE MANAGEMENT AREA						REPORT # 12
MAIN BEAM LENGTH (CM)	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
BUCKS	***** (0) (*****-*****)	13.12 (20) (5.00-18.50)	17.53 (10) (11.00-24.00)	25.50 (2) (18.50-29.00)	24.87 (2) (21.00-29.00)	***** (0) (*****-*****)	15.86 (34) (5.00-29.00)
NUMBER OF POINTS							
2	0(*****Z)	9(69.23Z)	4(57.14Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	13(56.52Z)
3	0(*****Z)	1(7.69Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	1(4.35Z)
4	0(*****Z)	3(23.08Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(*****Z)	4(17.39Z)
5	0(*****Z)	0(0.00Z)	3(42.86Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	3(13.04Z)
6	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(*****Z)	1(4.35Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	0(0.00Z)	0(*****Z)	1(4.35Z)
8	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)
AVERAGE	****	2.5	3.3	7.0	5.0	****	3.2

SUMMARY OF REPRODUCTION

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(*****Z)	
						1 FETUS = 0(*****Z)	
						2 FETUSES = 0(*****Z)	
						3 FETUSES = 0(*****Z)	

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