

BIG CYPRESS NATIONAL PRESERVE

DEER AND HOG ANNUAL REPORT

1988-89

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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). Many of these changes appear relatively minor but when considered in conjunction with other actions the impact is significant. Interpretation of deer and hog data collected from hunter killed animals is always difficult and it becomes nearly impossible when rules are constantly changing. Involved agencies should make a concerted effort to agree upon a set of sound biological regulations and retain those regulations as long as environmental conditions permit.

Hunting pressure during the 1988-89 Big Cypress season increased by 23% to 21,778 man-days. This was still 11.5% below the 24,360 man-days recorded in 1984-85. Closures of adjacent areas and good weather contributed to this increase. For the third straight year Bear Island showed an increase in pressure in addition to the factors already mentioned changes within BCNP contributed to this increase. These changes include the closure of Deep Lake to ORV's and the apparent decline in use in the Loop Unit. If changes already approved, such as designated trails in Bear Island do not reverse these trends, then additional actions should be taken by the 1990 season.

Both deer and hog appeared to be in good condition at the end of 1988 as

a result of good food production in the Big Cypress. Morphometric values including body weight, antler size, and body length were 5-15% greater than prior observations. Condition values for deer were also greater than earlier observations. Good mast production, proper hydrological conditions and fire all contributed to these improvements in quantity and quality of food.

Last year, the opening date (Nov. 7) of the General Gun hunt on BCNP was one week before the statewide season. This year, the opening date (Oct. 29) coincided with the opening date in the South zone of the statewide framework. The Central zone opened Nov. 12 while the Northwest zone opened Nov. 27. Also during 1988 several adjacent areas were closed due to high water conditions.

The major change in Management Area regulations for 1988-89 was check-in and check-out for all hunters using the area. In addition to this change National Park Service regulations were enacted which exclude ORV's from the Deep Lake Unit and re-define units within the preserve. The new units include the creation of the Corn Dance and Turner River Units in the former Monument Unit and the transfer of the southern portion of the Deep Lake Unit to the Turner River Unit.

Other new rules included a season long quota in Bear Island of 250 hunters per day whenever deer and hog hunting is allowed and a prohibition on tracked vehicles enacted by the Park Service.

As a result of new rules, operations at check stations were increased substantially over prior years. Provisions were made to operate a total of five check stations approximately 16 hours a day through all deer and hog seasons. Four of the check stations are shown on the map in Appendix A, and the fifth location was the Alligator Alley station located at the 38 mile marker rest area.

Only three of the check stations were operated as planned during the Archery Season. These were 40 Mile Bend, Bear Island and Dona Drive. For Muzzleloading and General Gun the stations were operated according to plan with the exception of Dona Drive. This check station was temporarily closed during the Muzzleloading hunt when operators were unavailable for this

station.

When the check stations were not staffed hunters could check in or out using forms and self deposit boxes at each station. After the first three weeks of the General Gun season most of the check stations were operated on a six day schedule.

This relatively complete schedule of operation was achieved only because overtime pay was authorized for OPS operators and substantial funds were expended to provide goods and services to improve living conditions at each check station.

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 1988. 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 average conditions with a major portion of the area wet or transitional during the middle of the dry season (March, 1988). Figure 2 shows recorded water levels at NPS gauge P-34. This gauge, located near the S.E. corner of the Stairsteps unit also shows above average water levels for most of 1988. While 1988 water levels were above average they were significantly lower than 1987 water levels

(Schortemeyer and McCown, 1988). In 1988 water levels were low enough to provide good conditions for both deer and hog. In spite of above average water levels significant portions of the Big Cypress were dry during the fawning period (February through May).

Fires during 1988 burned approximately 42,000 acres. Prescribed fires account for 60 percent 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 on prairies along U.S. 41 and Turner River Road.

CENSUS DATA

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. For example, in Bear Island 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 and continued in 1988. Original census data are presented in Appendix B for all surveys.

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 were disc-harrowed to

improve and standardize tracking conditions. During 1987 and 1988 transects were not disc-harrowed due to lack of equipment and manpower. As a result the tracking conditions on all four transects continued to deteriorate.

The 1988 track count shows a decline in mean tracks/mile (Fig. 4), and in deer density to 1 deer per 138 acres based on suitable transect length (Table 1). As a result of the wide variability observed, the deteriorating condition of the transects, and field observations we believe that track counts as presently conducted are not suitable for the Bear Island Unit. It is our recommendation that spot-light counts be conducted in this unit in 1989 to determine the feasibility of an alternate census method.

Monument/Corn Dance

Deer track counts have been conducted in the Corn Dance Unit since 1981 (Table 2). Ten permanent transects were established in 1985 (Fig. 5) and are remeasured each year to provide 1 mile of suitable tracking medium. As Figure 6 indicates, mean tracks per mile of transect have increased from 2.6 in 1985 to 3.9 in 1987 and 3.2 in 1988. This increase has coincided with increased field sign and observations of deer by GFC biologists during other activities in the area.

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 3). 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 3 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 (Appendix B, Table C). These numbers are extremely low and indicate a population under 100 animals (Table 3). 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.

The 1988 annual Stairsteps survey yields deer densities ranging from 1 deer per 51 acres to 1 deer per 103 acres. Unlike the 1987 annual surveys these estimates are consistent with earlier surveys, harvest levels and field observations (Fig. 8).

Experimental surveys

During 1988 experimental surveys were conducted in the Turner River and Deep Lake Units. A spotlight count was employed in Deep Lake while a track count along a buggy trail was used in the Turner River Unit. The results of these surveys are summarized in Table 4.

In the Deep Lake Unit the deer population estimate is 378 or 1 deer per 128 acres. In the mullet slough portion of Turner River Unit the population estimate is 58 animals based on a survey area of 32,000 acres. Both of these

estimates are preliminary and both surveys must be expanded and refined to yield reliable estimates.

HUNTING

During all big game seasons only antlered deer were legal game. For the third 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 21,567 man-days for the Archery, Muzzleloading and General Gun seasons (Table 5). This represents a 23 percent increase over the prior year but it is still 11.5 percent below the peak estimate of 24,360 man-days recorded for 1984-85. Deer harvest (185) was down from the record 208 in 1988. As predicted in last year's report the 1987 fawn class, represented by the 1.5 year age class in the harvest, probably experienced poor survival as a result of high water and thus is under-represented in the present harvest. Good fawning conditions in 1985 and 1986 are reflected in the high representation of these age classes in the harvest and the relatively high harvest level overall. Hog harvest was modestly higher than the prior year (144 vs. 138).

Hunter success (game checked/man-days) decreased to 0.015. While this represents a significant decrease from the prior year it is consistent with the success rates observed in the preceding five years. The mandatory check of hunters has not directly impacted these calculations since that information was not utilized in estimating man-days of hunting. Man-days of hunting were calculated by comparing Saturday vehicle counts with base year surveys.

Figure 9 shows hunter activity and checked harvest for each of the last nine years. Recently, both pressure and deer harvest have risen while hog harvest has remained constant. Generally, declines in harvest by one species

have been offset by increases in harvest for the other species.

Table 6 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 deer harvest equalled the prior two year average while hog harvest was down slightly.

Harvest and hunter pressure are compared by unit and season in Table 7. Generally, the trends for individual units follow the overall trends already discussed. The most pronounced increases in deer harvest occurred in Stairsteps and Bear Island. The Loop Unit has experienced an apparent decline both in harvest and hunter pressure.

The increase in pressure on Bear Island is indicative of its popularity. Also, the closure of Deep Lake to vehicles and other closures have contributed to this increase. The impact of daily quotas and designated trails may be sufficient to regulate use of this unit. If these measures are not effective, additional action should be taken by the 1990 season.

The overall increase in 1988 pressure is the result of several factors and may be a single year phenomenon. The closure of the adjacent Everglades Wildlife Management Area apparently caused an increase in Big Cypress especially in the Stairsteps where airboats are commonly used. Another factor contributing to this increase in pressure is the closure or loss of additional areas such as Fakahatchee Strand. Finally, good weather during the 1988 seasons probably contributed to the increase.

Archery Season

Archery season was open September 3 through September 25. This 23 day season was similar to recent archery seasons on the area. During the Archery

season five deer and four hogs were checked (Table 8). The total harvest of nine animals was the same as the prior two year average. Hunting pressure was higher than the prior two year average.

Muzzleloading Season

For the fourth year Muzzleloading season was 16 days long (October 8 through October 23). A quota of 250 hunters was again established for the Bear Island unit during the first nine days. During the Muzzleloading hunt, activity and harvest were up significantly over the prior two year average (Table 9).

General Gun Season

The 58 day General Gun season opened on October 29, 1988, and closed on December 25, 1988. For the third 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 10.

Hunter activity was estimated at 17,060 man-days up 20% from the prior two year average. Hog harvest was down 8% from the prior two year average while deer harvest was unchanged. The combined harvest was down slightly (266 vs 274).

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 1988 was calculated by multiplying the 1984 hunter activity (base year) estimate by the ratio of the 1988 vehicle survey to the 1984 vehicle survey (base year). The results of the vehicle

surveys are summarized in Appendix C. While the vehicle surveys do not directly measure hunter pressure they do provide a good index and therefore the trends over the past five years are accurately portrayed. Use estimates derived from mandatory check-in and check-out will be presented in a separate report.

Figure 10 compares hunting pressure by week of General Gun season over the past five 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.

Weekly pressure during 1988-89 shows two significant differences compared to prior years. Both differences are related to the earlier opening date. First, the increase in pressure associated with Thanksgiving week does not occur until week 5. In earlier years Thanksgiving occurred in week 3 or 4. Secondly, the increase in pressure associated with the Christmas holidays did not occur because the season closed on Christmas day.

WHITE-TAILED DEER BIOLOGICAL DATA

Herd Composition

Sex ratios were determined from 337 and 268 spotlight observations made in the Monument and Bear Island Units, respectively since August 1984. The sex ratios of deer in the Monument and Bear Island Units are 1:3.7 and 1:2.6 (buck:doe), respectively.

Appendix D summarizes biological data collected on 148 male deer harvested during the 1988-89 season. These deer were aged by tooth wear and eruption (Severinghaus 1949). Age structure of the 1988-89 BCNP harvest continued its upward trend. In 1988-89 the harvest declined for the 1.5 year age class and remained at zero for the fawn age class. The 1.5 year age class accounted for 27.7% of the harvest indicating a weak 1987 fawn class. The 2.5 year age class constituted 40% of the harvest while the 3.5 year age class accounted for 25%. These figures indicate that both the 1985 and 1986 fawn classes were strong

Table 11 summarizes deer age structure by unit of harvest. The Stairsteps and Bear Island units have the highest portion (45 and 40% respectively) in the 2.5 year age class. The Loop unit with a small sample size has the highest percentage of deer (60%) in age classes greater than 2.5. Overall, the age structure data indicate good recruitment in recent years. This is also supported by field observations, surveys, and documented harvest.

Physical Characteristics

Table 12 summarizes antler characteristics and dressed weight by age class and unit of harvest. Overall, values in 1988-89 are greater than those reported in prior years. For example, average dressed weight of all animals (72 lbs) was 7.5% greater than the 67 lbs. reported last year. Antler measurements such as circumference, length and number of points ranged from 5 to 13% greater than last year. As discussed later improved forage quality probably accounts for these changes. Increased mast production, improved hydrological conditions and prescribed burning would all contribute to improved forage quality.

Table 13 summarizes the occurrence of spikes by age class and unit of

harvest. The overall percent spikes by age class has decreased slightly compared to 1987-88. As predicted in the last report the percent spikes in the harvest appears to have stabilized since the enactment of the 5 inch antler regulation in 1986-87.

Thirty-two deer were collected from Bear Island (BI) and the eastern Monument Unit (EMU) of BCNP, the Fakahatchee Strand State Preserve (FS), and Collier Enterprise property (CE). Additionally, 17 hunter returned deer from BI and the Fakahatchee Conservation Club were necropsied (Fig. 11). Prior to necropsy body measurements were taken (Table 14). Necropsies were performed in cooperation with S.D. Wright, University of Florida School of Veterinary Medicine and followed procedures of Nettles (1981). A physical condition value of 1-12 was assigned each animal according to levels of endogenous fat on the tail, pericardium, heart, and kidneys (Stockle et al. 1978) and muscling and coat qualities (Table 15). Abomasal contents were removed and examined for parasite loads (Eve and Kellogg 1977). Reproductive tracts were removed and fetuses were aged (Table 16).

Necropsy results indicate that BI and CE deer were in better physical condition than deer from other areas. BI and CE deer were ranked highest in condition values (Fig. 12), kidney fat indices (Fig. 13), and body weights of 2.5 year old does (Fig. 14). Further, as in previous years, deer in good physical condition have lower APC values while those in poor condition have higher values (Fig. 15). Although deer herd density in EMU is low, APC values are comparatively high. Much of EMU consists of expansive prairies of dwarf cypress (Taxodium distichum) growing over bare mineral soil. Palatable forage in EMU is temporally and spatially isolated and as a result there is a concentration of deer around forage producing areas. This both facilitates

the transmission of the parasites and is indicative of the cause of poor deer condition in this area. In contrast, CE supports a dense herd (1 deer/8 acres) (Hillestad et al. 1988) in good physical condition. However, unlike the other study areas, CE lands are subject to habitat manipulations associated with cattle management activities. These include burning, rollerchopping, pasture fertilization, forage crop plantings, soil pH conditioning, feeding stations, and mineral blocks (M. Ramsey, Collier Enterprises, pers. comm.).

Sampled deer from all areas were in generally better physical condition than previous years. This was particularly noticeable in the condition values and KFI values of BI deer. The mean condition value of BI deer increased from 8.0 in 1987 to 10.0 in 1988. Similarly, KFI values of adult does increased from 24.5% in 1987 to 87.9% in 1988. KFI values of CE adult does also increased dramatically to 67.9% from 29.5% in 1987. The reasons for an increase in physical condition in these 2 herds are likely forage related. The two areas (BI, CE) with the greatest physical condition increases are the two areas of greatest mast production. Production of oak mast appeared to be high in 1988. Further, a relatively dry summer and autumn immediately prior to collection contributed to increased forage quality.

Reproductive Status

The reproductive status of Big Cypress deer was determined by examining does collected in October, 1988 and by observations of radio-instrumented does in 1988 and 1989. A high percentage of adult does from all areas were pregnant (90%, all areas combined) (Table 16). The incidence of twinning was highest in BI (1.6 fetuses/pregnant doe) and lowest in EMU (1.0 fetuses/pregnant doe).

Six of 12 radio-instrumented does were observed with fawns of the year during 1988; another 6 does were observed on numerous occasions but did not appear to have been accompanied by young. Considering the twelve does whose success or lack thereof was known, it appeared that at least 50% of these females were successful in rearing fawns beyond the vulnerable first six weeks post-partum. During the 1989 fawning season, 12 does were observed with fawns and 3 others were not accompanied by fawns of the year for an 80% fawning success rate.

Data from collected does in Bear Island show that 93.5% of does should be pregnant with an average of 1.5 fetuses/doe. By applying these values to the past two years of observed fawning success among radio-collared does, it is possible to estimate neonate deer mortality. In 1988, 12 does had known fawning success rate of 50%. Assuming a pregnancy rate of 93.5%, 11.2 does should have been pregnant and produced 16.8 fetuses (11.2×1.5 fetuses/doe). This suggests a 1988 neonate fawn mortality rate of 64.3%. The spring 1989 calculations indicate that 14 of 15 does should have been pregnant and produced 21 fetuses. The neonate fawn mortality rate for 1989 is estimated at 43%.

Mortality Agents and Survival Rates

Twelve radio-instrumented or ear-tagged deer have died since the beginning of the study (Sept. 1986) (Fig. 16). Bobcats (Lynx rufus) and Florida panthers (Felis concolor coryi) have preyed upon 3 deer each. Humans have taken 2 deer legally, one was an ear-tagged buck and the second was a doe harvested off the Preserve during the antlerless season. Two other does were illegally killed during general gun season 1988. The last two does died from natural causes.

The year was divided into 3 intervals, summer (1 June to start of general gun season), hunting season (coinciding with general gun only) and spring (post general gun to 31 May). Archery and muzzleloader seasons were not included with general gun because hunting pressure is 5 times less and documented harvest is 7 times lower. Survival rates during each interval were calculated following Heisey and Fuller (1985) using the formula:

$$S_i [(X_i - Y_i)/X_i]^n$$

where S_i is the interval survival rate, X_i is the number of radio-transmitter days, Y_i is the number of animals dying during the interval, and n is the length of the interval in days. There was no significant difference among survival rates in the three intervals over the past two years (Table 17). The annual survival rate for white-tailed deer (primarily does) in Bear Island is between 72 to 75%.

Home Range and Habitat Use

Doe home ranges varied from 90 - 961 ha in size. Large home ranges resulted from extensive movements (2-10 km) by several does outside of their typical use areas. Average home range size was 265 ha, including those with large movements, and 173 ha when omitted. These estimates were between other home range estimates for deer (both sexes) in Florida upland habitats: 85 ha (Marchinton and Jeter 1967), 270 ha (Bridges 1968), and 342 ha (Smith 1970). There was no seasonality associated with the aberrant movements by does. A radio-instrumented adult buck had a home range of 812 ha, 4 times the average size for does. Typically, both sexes had core areas that were highly used, with outlying areas that were seldom used. In those cases where animals had made extensive movements, there may be 1 or 2 additional high use areas with an inter-connecting travel route.

As an associated bias of the capture method, collared deer are distributed in 2 distinct areas of Bear Island, East Hinson Marsh and Okaloacoochee Slough. These areas are characterized by expansive open areas suitable for helicopter pursuit of deer. Habitats were categorized into 16 types based on descriptions by Davis (1943) and are listed in Appendix E.

East Hinson Marsh, covering some 2070 ha, has been the most productive area for capturing deer. The marsh interior has a mosaic of sawgrass islands, flag ponds, and freshwater marshes (areas that are neither sawgrass nor flag dominated). Hardwood tree islands and cypress domes are scattered throughout the interior with extensive hardwood hammocks, pinelands, and cypress swamps as borders. Interfaces between open marsh and forests are areas of shrub marsh, dominated by wax myrtle (Myrica cerifera), and thicket swamps. Eighteen deer have been collared in East Hinson. These animals were found in mixed-species marshes and hardwood hammocks 50% of the time (Fig. 17). Although no data are currently available on actual areas covered by each habitat, it appears that hardwood hammocks were used in greater proportion than their availability.

The Okaloacoochee Slough in north Bear Island, is dominated by a combination of sawgrass ponds, flag marshes, and cypress swamps. Thicket swamps are found extensively between cypress and marsh habitats. Cypress and thicket swamps account for 64.3% of locations for the 13 deer collared in this area (Fig. 17).

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 610 of the 943 hogs checked over the past five years.

Table 18 summarizes average gutted weights, lengths, and shoulder heights for hogs harvested during the last six years. Average weight, length and shoulder height were all greater than the previous year. Both body weight and length were the highest ever recorded. Average dressed weight this year was 83 lbs. compared to 71 lbs. in 1987-88. This represents a 17% increase over the prior year and an 11% increase over the previous high of 75 lbs. recorded in 1986-87. As noted earlier for deer these increases in hog measurements are the result of increased availability of more nutritious food. Good mast production, increased prescribed burning and favorable water levels contributed to these improvements.

Table 19 compares physical characteristics of male and female hogs harvested over the last six years. Males were larger in every category in 1988-89. Males outweighed females by 39% or 26 pounds (93 pounds vs. 67 pounds). Average body length of males was 5% greater than females (122 cm vs. 116 cm) while shoulder height was 8% greater (65 cm vs 60 cm). These differences are similar to those observed over the prior five years.

Table 20 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. In the 1988-89 harvest, hogs in Bear Island weighed 24 lbs. more than hogs taken from Stairsteps (Avg. Dressed Weight). This indicates that both spatial and temporal habitat differences tend to affect deer and hog in the same manner.

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Table 1. Population estimates for white-tailed deer in the Bear Island unit (38,000 acres) of the BCNP based on track count surveys, 1977-88.

Time of Survey	Source	Population Estimate	Density (deer:acre)
1988 Annual	Schortemeyer & McGrady 1988	81-265	1:451-138
1987 Annual	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

Table 1. continued

Time of Survey	Source	Population Estimate	Density (deer:acre)
1979-80 Post hunt	Pylant, memo, 28 Dec. 1981	630	1:60
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. Population estimates for white-tailed deer in the Monument unit of the BCNP, 1980-88.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1988 Annual	Track Counts	McCown 1988	283,791	1412	1:201
1987 Annual	Track Counts	McCown 1987	283,791	1720	1:165
1986 Annual	Track Counts	McCown 1986	283,791	1260	1:225
1985-86 Pre-hunt	Aerial Counts	Schortemeyer 1985	283,791	280-385	1:1013-737
1985 Annual	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	300,000	1620	1:185

Table 3. Population estimates for white-tailed deer in the Stairsteps unit (eastern portion) of the BCNP, 1977-88.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1988 Annual	SRF Aerial Counts	Schortemeyer and McGrady	50,000	485-980	1:103-51
1987 Annual (1 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	38-76	1:1322-661
1987 Annual (2 of 2)	SRF Aerial Counts	Schortemeyer and Ramsey	50,000	19-38	1:2643-1322
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	316-633	1:158-79
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

Table 3. continued

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
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
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 4. Experimental population estimates for white-tailed deer on the Big Cypress National Preserve, 1988.

Time of Survey	Method	Source	Unit	Calculated Size of Survey Area (acres)	Population Estimate	Density (deer:acre)
1988 Annual	Spotlight Count	McGrady April 1988	Deep Lake	48,356	378	1:128
1988 Annual	Track Counts	McGrady April 1988 (a)	Turner River (Mullet Slough)	32,000	58	1:549

a) Track counts conducted off Cypress Lane, two replications.

Table 5. Big Cypress National Preserve deer harvest, hog harvest and hunting pressure, 1980-89.

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
1988-89	21,567	185	144	0.015

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

Table 6. Big Cypress National Preserve deer and hog harvest, and hunter success ratio by season.

DEER				
SEASON	No. Harvested		Hunter Succ. Ratio (a)	
	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.
Archery	5	1.0	0.003	0.001
Muzzleloader	27	15.5	0.010	0.009
General Gun	153	151.0	0.009	0.011
HOG				
Archery	4	8.0	0.002	0.006
Muzzleloader	27	14.5	0.010	0.008
General Gun	113	123.0	0.007	0.009

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

Table 7. Three-year comparison of documented deer and hog harvest, and hunter pressure on the Big Cypress National Preserve.

	DEER			HOG			HUNTER PRESSURE		
	86-87	87-88	88-89	86-87	87-88	88-89	86-87	87-88	88-89
Archery									
Bear Island	1	0	2	3	2	3	320	380	518
Deep Lake	0	0	0	0	0	0	10	40	99
Monument	0	0	0	4	1	1	430	545	537
Stairsteps	0	0	2	1	2	0	340	280	438
Loop	1	0	1	2	1	0	155	235	170
TOTAL	2	0	5	10	6	4	1255	1480	1762
Muzzleloading									
Bear Island	3	5	11	6	3	11	545	485	847
Deep Lake	0	0	0	0	0	0	60	115	100
Monument	1	3	5	5	2	7	680	585	896
Stairsteps	2	6	7	6	4	7	400	390	746
Loop	5	6	4	1	2	2	230	125	156
TOTAL	11	20	27	18	11	27	1915	1700	2745
General Gun									
Bear Island	23	34	27	25	32	37	3060	3630	4855
Deep Lake	1	4	3	0	0	0	395	525	380
Monument	20	25	21	19	13	9	5265	5110	5375
Stairsteps	52	112	95	63	55	56	4080	4130	5435
Loop	18	13	7	18	21	11	1320	950	1015
TOTAL	114	188	153	125	121	113	14120	14345	17060
COMBINED									
Bear Island	27	39	40	34	37	51	3925	4495	6220
Deep Lake	1	4	3	0	0	0	465	680	579
Monument	21	28	26	28	16	17	6375	6240	6808
Stairsteps	54	118	104	70	61	63	4820	4800	6619
Loop	24	19	12	21	24	13	1705	1310	1341
TOTAL	127	208	185	153	138	144	17290	17525	21567

Table 8. Archery season harvest summary Big Cypress National Preserve,
1988-89.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1988-89 dates	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.
1 (9-3 to 9-4)	2	0.0	0	3.0	547	548
2 (9-5 to 9-11)	2	0.0	4	3.5	435	282
3 (9-12 to 9-18)	1	0.5	0	1.5	490	298
4 (9-19 to 9-25)	0	0.5	0	0.0	290	240
TOTAL	5	1.0	4	8.0	1762	1368

Table 9. Muzzleloader season harvest summary Big Cypress National Preserve, 1988-89.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1988-89 dates	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.
1 (10-08 to 10-09)	14	4.0	15	6.5	1060	740
2 (10-10 to 10-16)	8	6.0	10	4.0	870	563
3 (10-17 to 10-23)	5	5.5	2	4.0	815	505
TOTAL	27	15.5	27	14.5	2745	1808

Table 10. General Gun season harvest summary, Big Cypress National Preserve, 1988-89.

WEEK		DEER		HOG		HUNTER ACTIVITY (man-days)	
1988-89 dates		1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.	1988-89	Prior 2 yr. avg.
1 (10-29 to 10-30)		46	57.0	27	40.0	3325	2515
2 (10-31 to 11-06)		44	36.5	28	30.0	2730	2768
3 (11-07 to 11-13)		9	13.5	11	9.5	2100	1280
4 (11-14 to 11-20)		6	12.5	8	8.5	1320	1672
5 (11-21 to 11-27)		11	6.0	10	8.0	2560	985
6 (11-28 to 12-04)		8	4.5	8	3.5	1305	825
7 (12-05 to 12-11)		9	4.5	6	2.5	1360	840
8 (12-12 to 12-18)		10	5.0	10	6.0	1365	1490
9 (12-19 to 12-25)		10	11.5	5	15.0	995	1855
TOTAL		153	151.0	113	123.0	17060	14230

Table 11. Age structure of male white-tailed deer harvested on the Big Cypress National Preserve by unit of harvest, 1988-89.

AGE CLASS	BEAR ISLAND		MONUMENT		LOOP		STAIRSTEPS		ALL UNITS COMBINED	
	#	%	#	%	#	%	#	%	#	%
0.5	0	-	0	-	0	-	0	-	0	-
1.5	9	24.3	7	36.8	1	10.0	24	29.6	41	27.7
2.5	15	40.5	4	21.1	3	30.0	37	45.7	59	39.9
3.5	10	27.0	3	15.8	4	40.0	19	23.5	37	25.0
4.5	0	-	2	10.5	1	10.0	1	1.2	4	2.7
5.5+	3	8.1	3	15.8	1	10.0	0	-	7	4.7
Sample Size	37		19		10		81		148 (a)	

(a) Includes 1 deer from Deep Lake unit.

Table 12. Weight and antler characteristics of male deer harvested during 1988-89, Big Cypress National Preserve.

AGE CLASS	SAMPLE SIZE BY UNIT					AVERAGE DRESSED WEIGHT (LBS.)				
	I (a)	III	IV	V	ALL	I	III	IV	V	ALL
0.5	-	-	-	-	-	-	-	-	-	-
1.5	9	2	-	17	28	66	60	-	62	63
2.5	12	2	2	24	40	71	64	75	71	71
3.5	8	1	4	15	28	80	70	67	79	77
4.5	-	1	1	1	3	-	105	70	90	88
5.5+	3	-	1	-	4	95	-	85	-	93
TOTAL	32	6	8	57	103	74	71	72	70	72

AGE CLASS	AVERAGE ANTLER MAIN BEAM CIRCUMFERENCE (cm)					AVERAGE ANTLER MAIN 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	4.9	5.7	4.8	4.8	4.9	16.5	17.7	12.8	12.9	14.5	2.7	3.7	3.0	2.4	2.7
2.5	5.6	7.7	6.3	5.9	6.0	23.3	18.2	19.8	19.6	20.5	4.6	3.5	5.0	4.2	4.3
3.5	6.8	6.5	6.1	7.8	7.2	29.3	25.6	21.1	25.6	26.3	5.1	3.3	4.3	5.8	5.3
4.5	---	9.3	8.8	7.5	8.7	---	38.9	32.5	41.5	37.4	---	9.0	6.0	---	8.0
5.5+	9.7	8.5	7.5	---	8.9	36.2	32.5	30.6	---	34.0	8.0	6.3	3.0	---	6.6
TOTAL	6.1	7.1	6.4	6.0	6.2	24.2	23.5	22.0	19.1	21.2	4.6	4.6	4.4	4.0	4.3

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

Table 13. Number of spikes, percent spikes and average main beam length of adult deer harvested on the Big Cypress National Preserve, 1988-89.

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	5	3	0	17	25	62.5	42.9	0.0	77.3	65.8	-	1	10	14
2.5	3	2	0	10	15	21.4	50.0	0.0	30.3	27.8	-	-	3	12
3.5	0	1	1	2	4	0.0	33.3	25.0	12.5	12.9	-	-	1	3
4.5	-	0	0	-	0	---	0.0	0.0	---	0.0	-	-	-	-
5.5+	0	0	0	-	0	0.0	0.0	0.0	---	0.0	-	-	-	-

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

Table 14. Morphometric values of collected deer; October, 1988.

NO.	AREA	SEX	AGE	WT. (lbs)	LENGTH (cm)	GIRTH (cm)
244	BI	F	2.5	75	125	74
245	BI	F	2.5	95	125	70
246	BI	F	1.5	85	117	70
247	BI	F	2.5	105	126	83
248	BI	F	3.5	105	129	82
249	BI	F	3.5	100	124	81
250	EMU	F	1.5	55	110	66
251	EMU	F	1.5	57	104	67
252	EMU	F	2.5	75	115	73
253	EMU	F	1.5	55	108	61
254	EMU	F	1.5	62	115	66
255	EMU	F	2.5	75	116	70
256	EMU	F	2.5	81	115	70
257	FS	M	1.5	95	127	79
258	FS	F	1.5	75	101	76
259	FS	M	2.5	100	129	78
260	FS	F	4.5	105	121	84
261	FS	M	0.5	51	102	62
262	FS	F	1.5	70	113	70
264	FS	F	1.5	85	123	74
265	FS	M	2.5	126	139	87
266	FS	F	0.5	51	102	64
267	FS	F	2.5	75	109	69
271	CE	F	2.5	105	121	85
272	CE	F	3.0	94	117	78
273	CE	F	2.0	94	118	79
274	CE	M	0.5	55	111	69
275	CE	M	1.5	65	110	67
276	CE	F	3.0	84	114	76
277	CE	F	3.5	104	130	68
278	CE	F	2.0	75	113	75
279	CE	F	0.5	58	101	67
296	FCC	F	0.5	54	106	67
297	FCC	M	2.5	75	120	69
298	FCC	F	2.5	91	123	77
300	FCC	F	0.5	48	86	-
301	FCC	F	2.5	82	111	75
302	FCC	M	0.5	54	83	58
303	FCC	M	2.5	100	97	84
305	FCC	F	1.5	68	114	77
306	FCC	F	2.5	78	111	74
307	FCC	F	3.0	84	107	70
308	FCC	F	5.5	100	125	77
309	FCC	F	4.0	105	103	86

Table 15. Physical condition values for adult deer collected October, 1988.

NO.	AREA (a)	SEX	AGE	KIDNEY FAT INDEX	TAIL FAT	HEART FAT	PERI- CARDIUM FAT	KIDNEY FAT	CONDITION
244	BI	F	2.5	20.5	M	M	M	L	G
245	BI	F	2.5	144	H	H	H	H	E
246	BI	F	1.5	22.5	M	L	H	L	G
247	BI	F	2.5	86.4	H	M	H	H	E
248	BI	F	3.5	184	H	H	H	H	E
249	BI	F	3.5	70.2	M	H	H	H	E
250	EMU	F	1.5	12.9	L	L	-	L-	F+
251	EMU	F	1.5	7.6	L	L+	L	L	F+
252	EMU	F	2.5	87.1	H	M+	M+	H	G+
253	EMU	F	1.5	6.2	L	L	L-	L	F
254	EMU	F	1.5	44.8	L	M	H	M+	F+
255	EMU	F	2.5	15.5	L	M-	L	L	F+
256	EMU	F	2.5	16.7	L	M	L	L	F
257	FS	M	1.5	5.9	L	L+	L	L	F
258	FS	F	1.5	0.0	L	L	L	L	F
259	FS	M	2.5	35.7	L	L	L	M	F+
260	FS	F	4.5	64.8	H	M	M	H	G+
262	FS	F	1.5	22.5	L	L	L	L+	F
264	FS	F	1.5	32.5	M	M	L+	M	G
265	FS	M	2.5	9.2	L	L	L	L	G+
267	FS	F	2.5	17.4	L+	M	M	H	G
271	CE	F	2.5	117	H	M	H	H	G
272	CE	F	3.0	45.2	M	H	H	H	E
273	CE	F	2.0	37.3	H	H	H	H	E
275	CE	M	1.5	7.8	L	L	L	L	F
276	CE	F	3.0	134	M	M	H	H	G+
277	CE	F	3.5	65.7	L	H	H	H	E
278	CE	F	2.0	68.4	H	M	H	H	G
297	FCC	M	2.5	18.8	L	L	L	L	F
298	FCC	F	2.5	43.4	L	H	M	M	F
301	FCC	F	2.5	8.3	M	L	-	L	F
303	FCC	M	2.5	6.5	M	L	L	L	F
305	FCC	F	1.5	7.9	L	L	-	L-	F
306	FCC	F	2.5	60.4	L	L	L	L	F+
307	FCC	F	3.0	9.6	L	M+	L-	L-	F+
308	FCC	F	5.5	31.9	M	M+	L	M	F+
309	FCC	F	4.0	15.6	M	L+	M-	M	G

(a) BI = Bear Island Unit

EMU = Eastern Monument Unit/Corn Dance Unit

FS = Fakahatchee Strand State Preserve

CE = Collier Enterprise Lands

FCC = Fakahatchee Conservation Club

Table 16. Reproductive status of adult does October, 1988.

NO.	AREA (a)	AGE	PREG?	NO. FETUS
244	BI	2.5	Y	1
245	BI	2.5	Y	2
246	BI	1.5	Y	1
247	BI	2.5	Y	2
248	BI	3.5	N	0
249	BI	3.5	Y	2

250	EMU	1.5	Y	1
251	EMU	1.5	Y	1
252	EMU	2.5	Y	1
253	EMU	1.5	N	0
254	EMU	1.5	Y	1
255	EMU	2.5	Y	1
256	EMU	2.5	Y	1

258	FS	1.5	N	0
260	FS	4.5	Y	2
262	FS	1.5	Y	1
264	FS	1.5	Y	1
267	FS	2.5	Y	1

271	CE	2.5	Y	2
272	CE	3.0	Y	1
273	CE	2.0	Y	1
276	CE	3.0	Y	1
277	CE	3.5	Y	1
278	CE	2.0	Y	1

298	FCC	2.5	Y	1
301	FCC	2.5	Y	1
305	FCC	1.5	Y	1
306	FCC	2.5	Y	1
307	FCC	3.0	Y	2
308	FCC	5.5	Y	2
309	FCC	4.0	Y	1

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

Table 17. Survival rates for radio-collared white-tailed deer, Bear Island Unit, Big Cypress National Preserve, Florida, May 1987 to May 1989.

Interval	Number of deer	Number of deaths	Number of radio-days	Interval length (days)	Interval survival	Annual survival
Summer87	17	1	2600	159	0.941	
Hunting87	18	2	954	58	0.885	
Spring88	15	2	2075	149	0.866	0.721
Summer88	21	2	3115	150	0.908	
Hunting88	29	2	1632	58	0.931	
Spring89	27	3	3952	157	0.888	0.751

Table 18. Physical characteristics of wild hogs harvested on the Big Cypress National Preserve, 1983-89.

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)
1988-89	108	83(20-238)	120(68-158)	63(22-85)

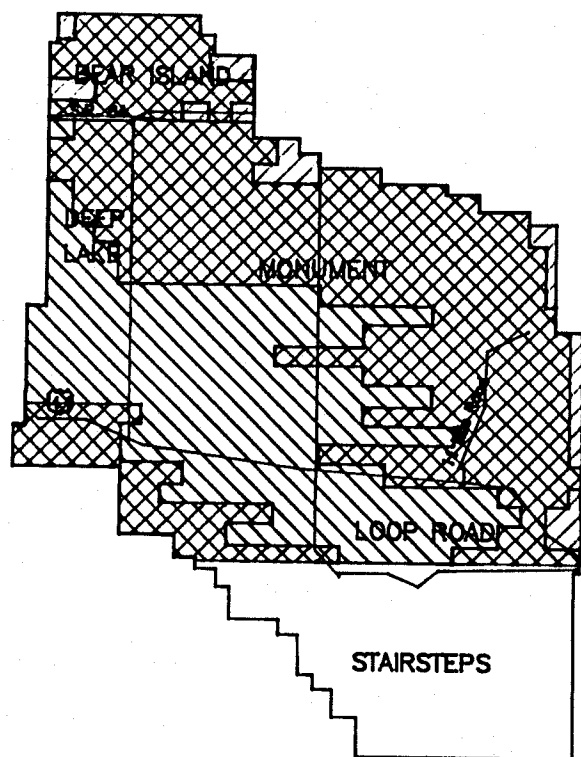
(a) Body length does not include tail

Table 19. Comparison by sex of physical characteristics of wild hogs harvested on Big Cypress National Preserve, 1983-89.

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)
1988-89	F	45	67 (20-156)	116 (68-144)	60 (22-80)
	M	62	93 (30-238)	122 (84-158)	65 (42-85)

Table 20. Comparison of wild hogs harvested on the Big Cypress National Preserve in the Stairsteps and Bear Island units, 1983-89.

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)
1987-88	Bear Island	35	80(25-245)	118 (96-166)	69(48-98)
	Stairsteps	39	60(16-151)	110 (75-140)	57(39-76)
1988-89	Bear Island	47	97(30-238)	122 (84-158)	69(47-85)
	Stairsteps	37	73(32-150)	118 (90-153)	60(42-80)



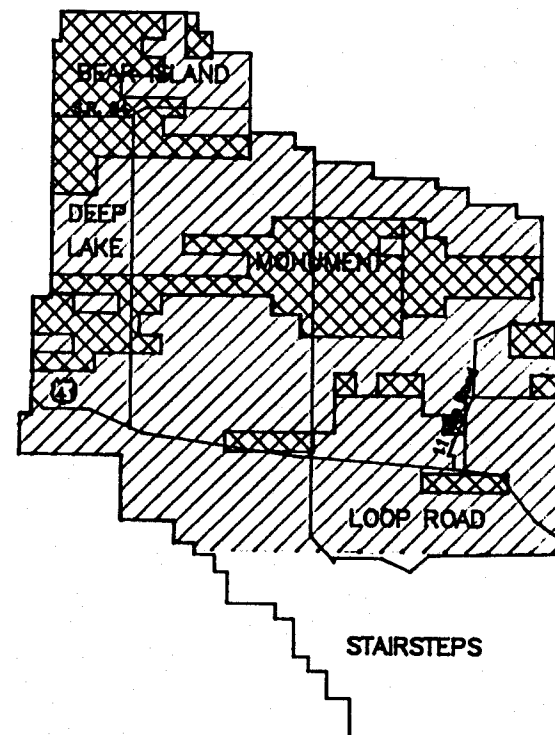
March 8, 1988



BIG CYPRESS NATIONAL PRESERVE

-  Wet
-  Transitional
-  Dry

Scale
0 6 Km



August 3, 1988

Figure 1. Comparison of dry and wet season hydropatterns on the Big Cypress National Preserve, 1988.

STAGE AND RAINFALL AT P-34

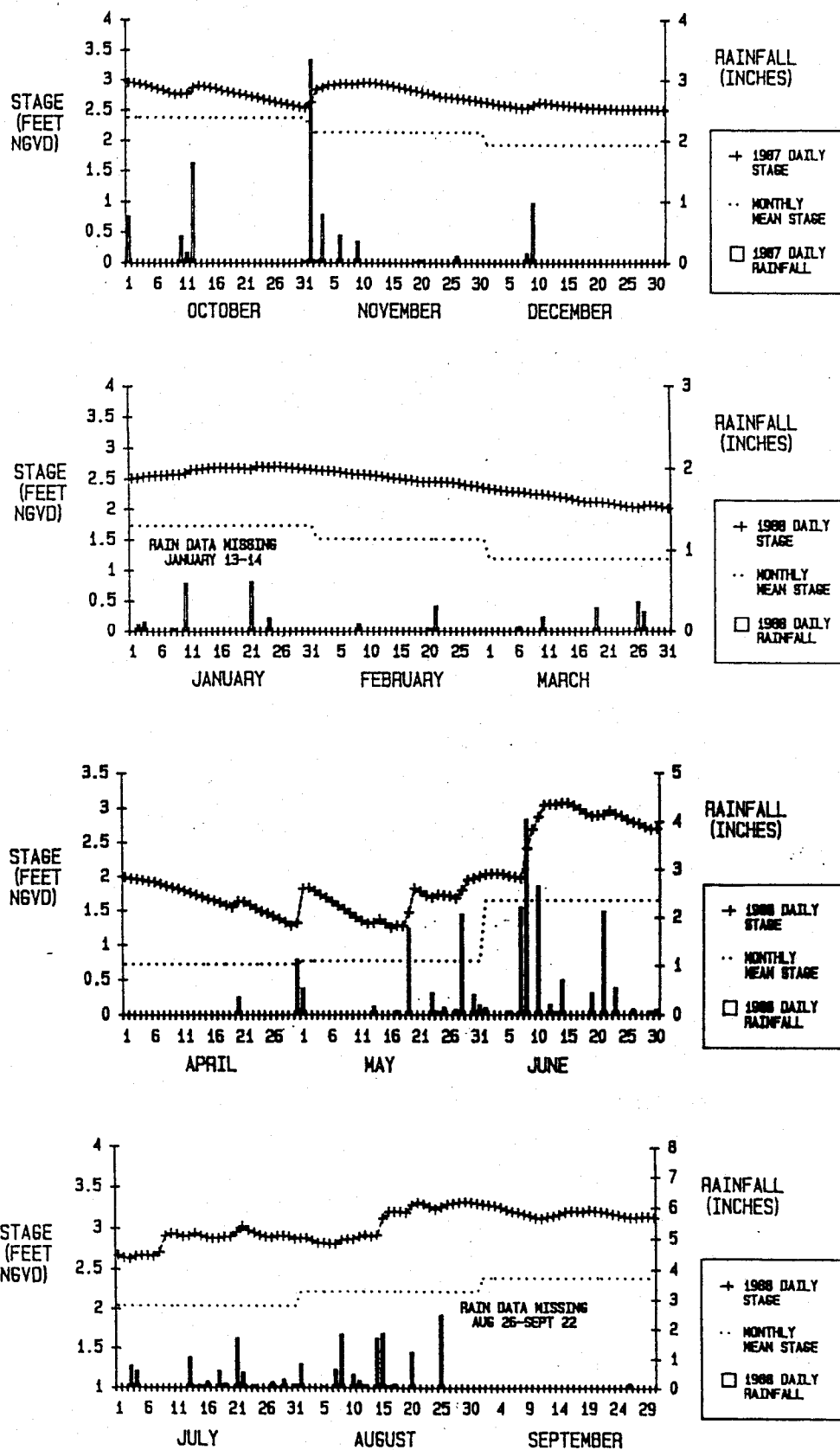


Figure 2. Water levels at NPS gauge #34, southeastern Stairsteps, October 1987 - September 1988. (From Hydrology Synopsis, Everglades National Park, October 1987 - September 1988).

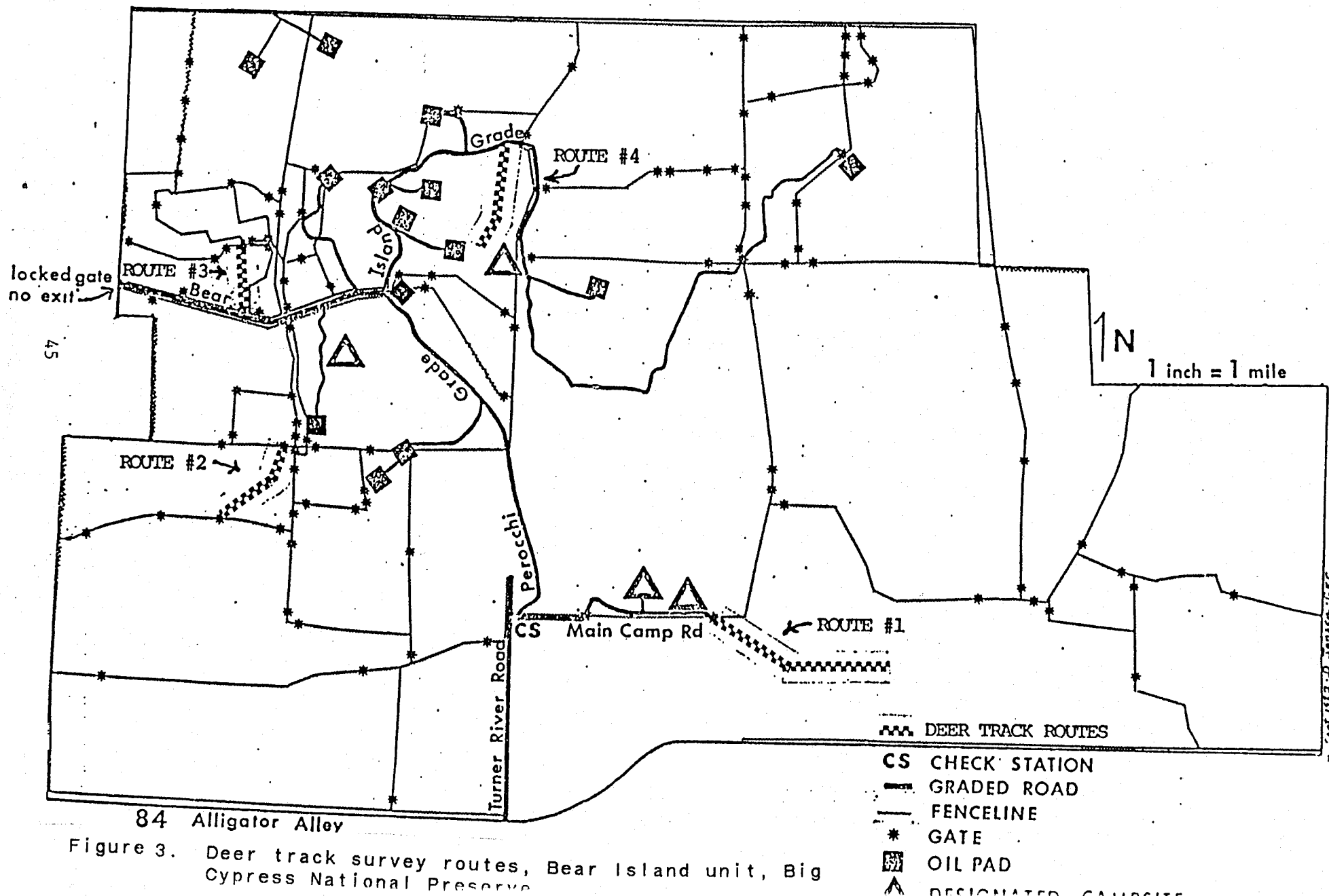
PLEASE:

LEAVE GATES AS YOU FIND THEM.

RECYCLE ALUMINUM CANS AT DESIGNATED SITES.

BEAR ISLAND UNIT

BIG CYPRESS WILDLIFE MANAGEMENT AREA



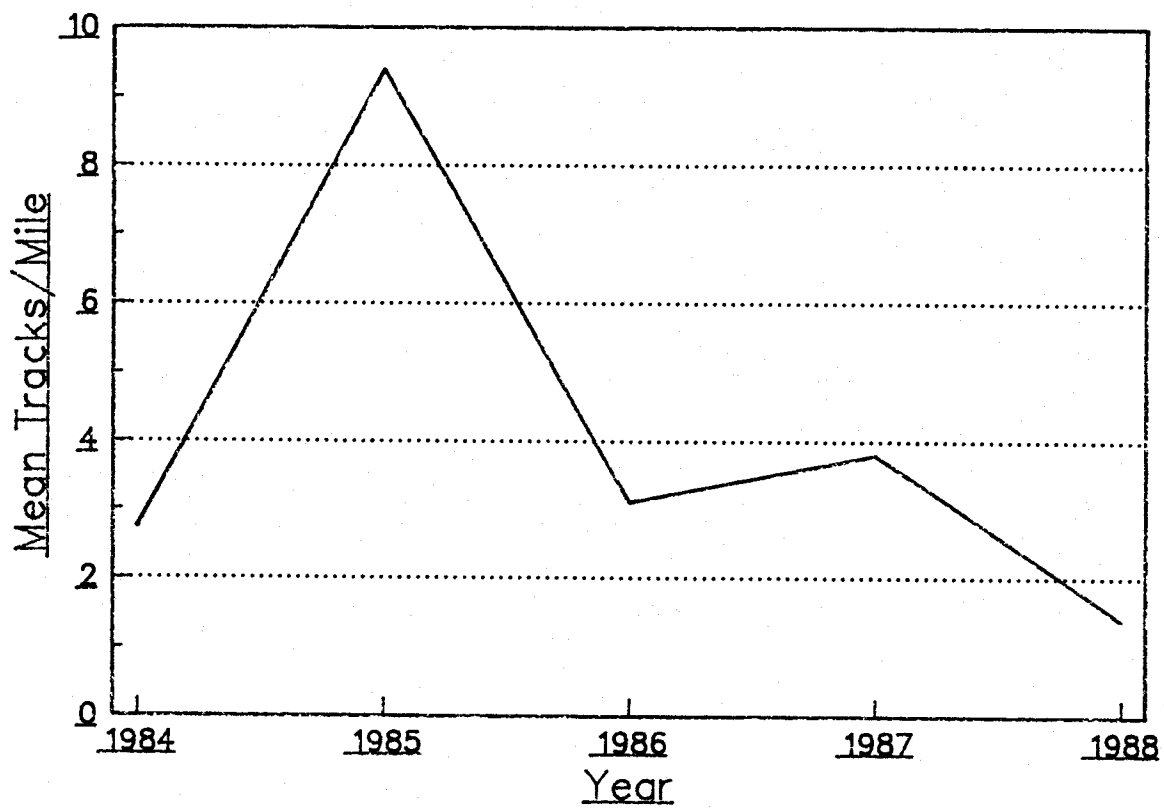


Figure 4. Mean number of deer tracks per one mile transect in Bear Island Unit, BCNP, 1984-1988.

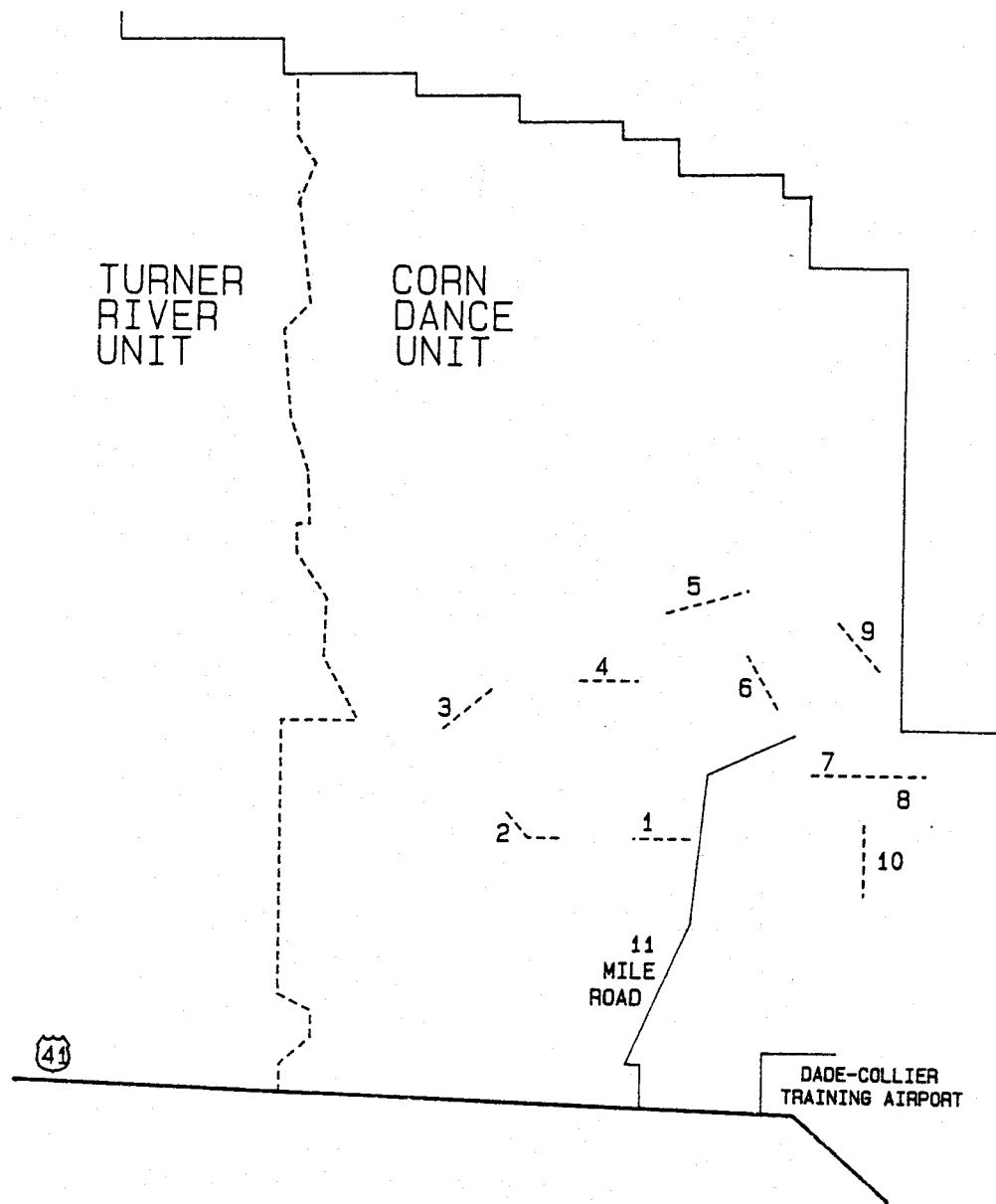


Figure 5. Deer track survey transects, eastern Monument/Corn Dance Unit, Big Cypress National Preserve, 1985-1988.

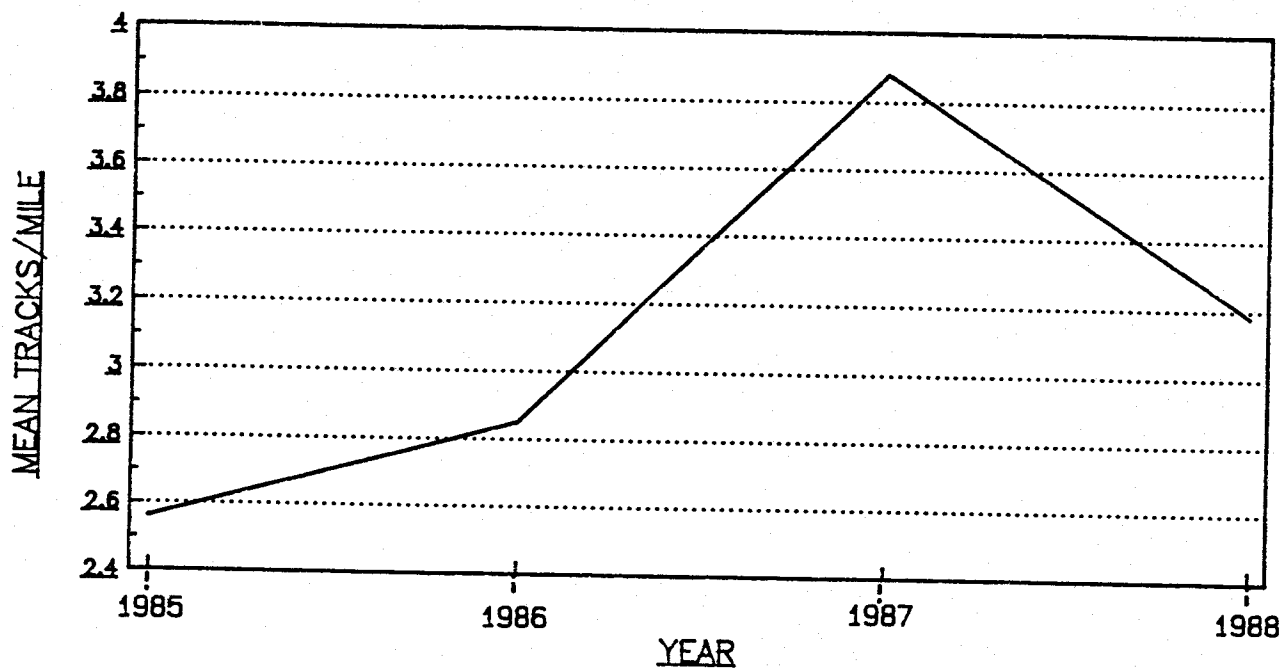
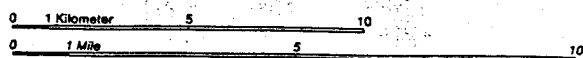


Figure 6. Mean number of deer tracks per one mile transect in Monument/Corn Dance Unit, Big Cypress National Preserve, 1985-1988.



- | | | |
|----------------|-------------------|--------------------|
| 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 Salt Prairies | Coastal Prairie | Marine and Estuarine (all blue tones) |

Figure 7. Survey transects and general survey area for aerial deer census, eastern Staircase unit, BCNP, 1985-1988.

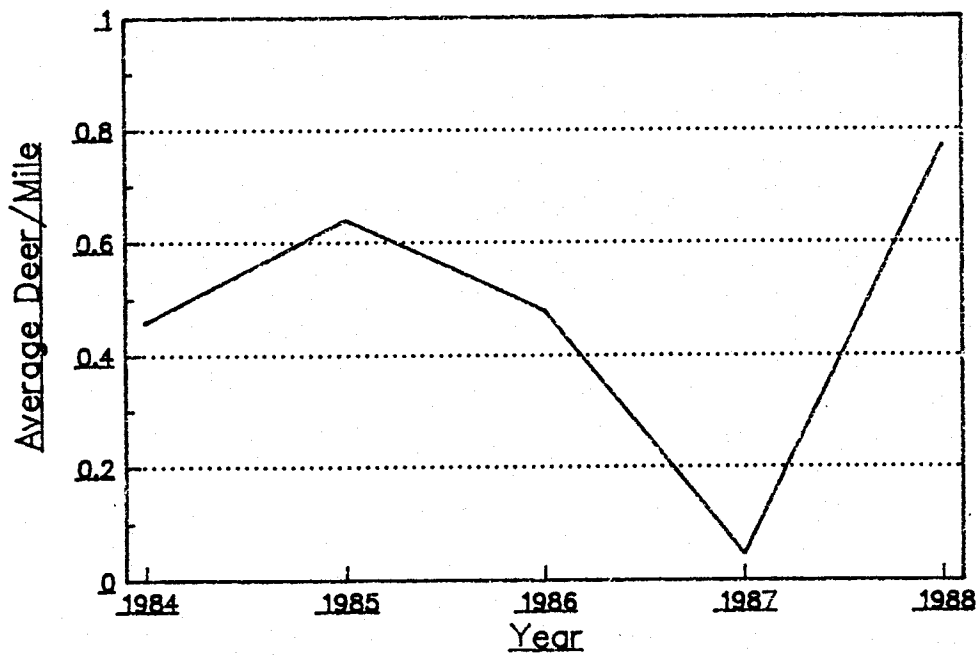


Figure 8. Average number of deer observed per mile in the eastern Stairsteps Unit, BCNP, 1984-1988.

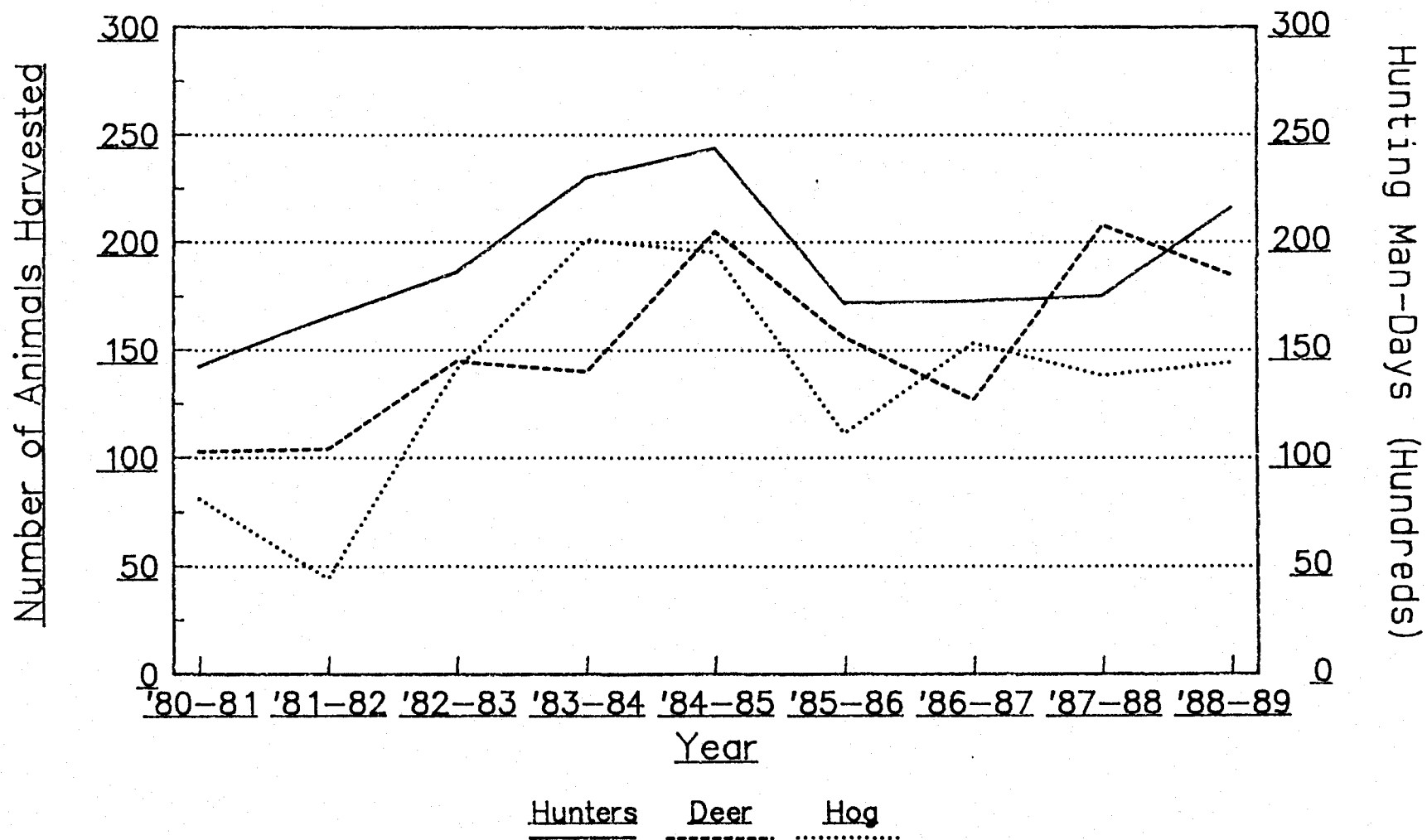


Figure 9. Hunting pressure and harvest of wild hog and white-tailed deer on the Big Cypress National Preserve, 1980-1989.

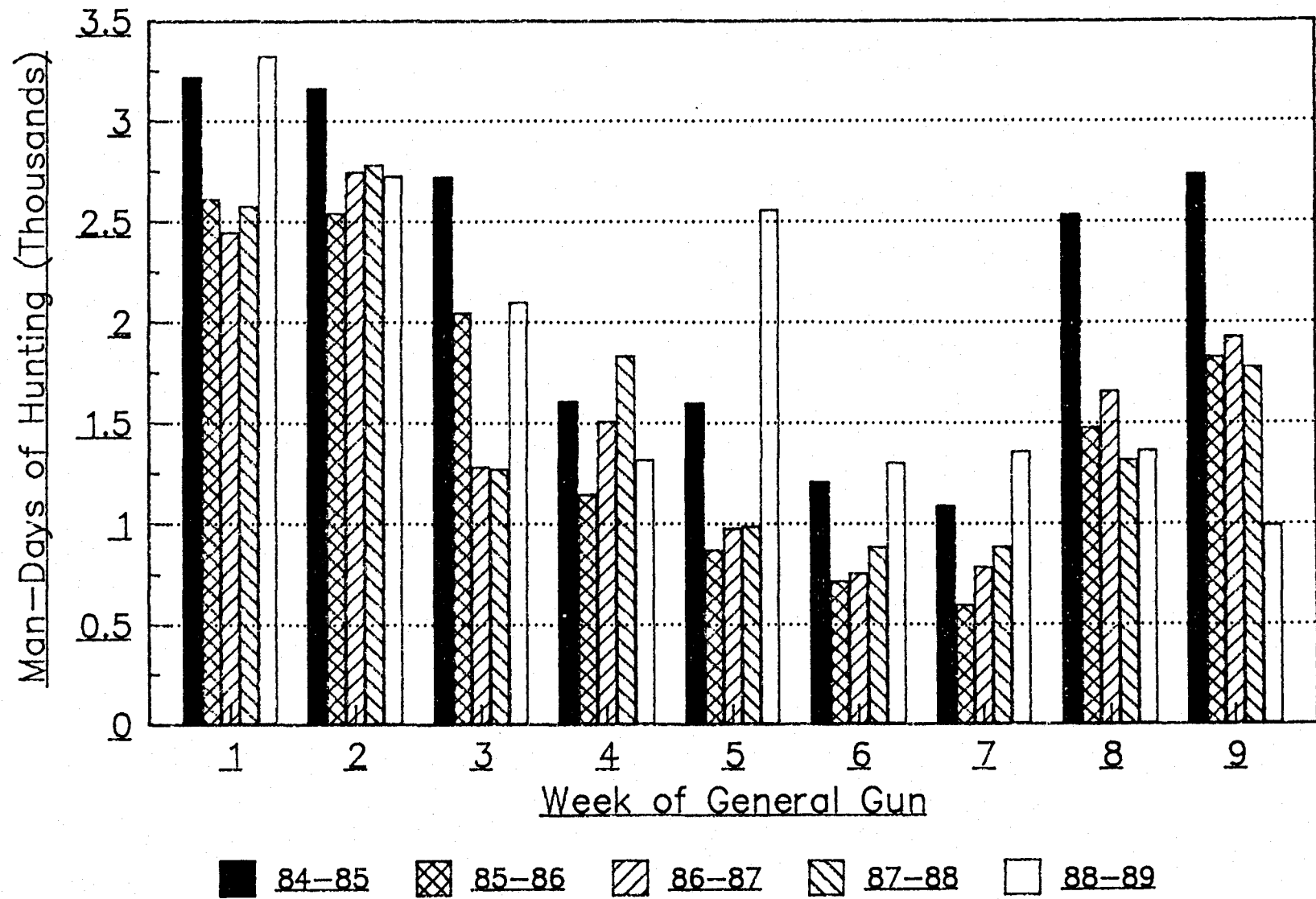


Figure 10. General Gun season hunting pressure by week, Big Cypress National Preserve, 1984-1989.

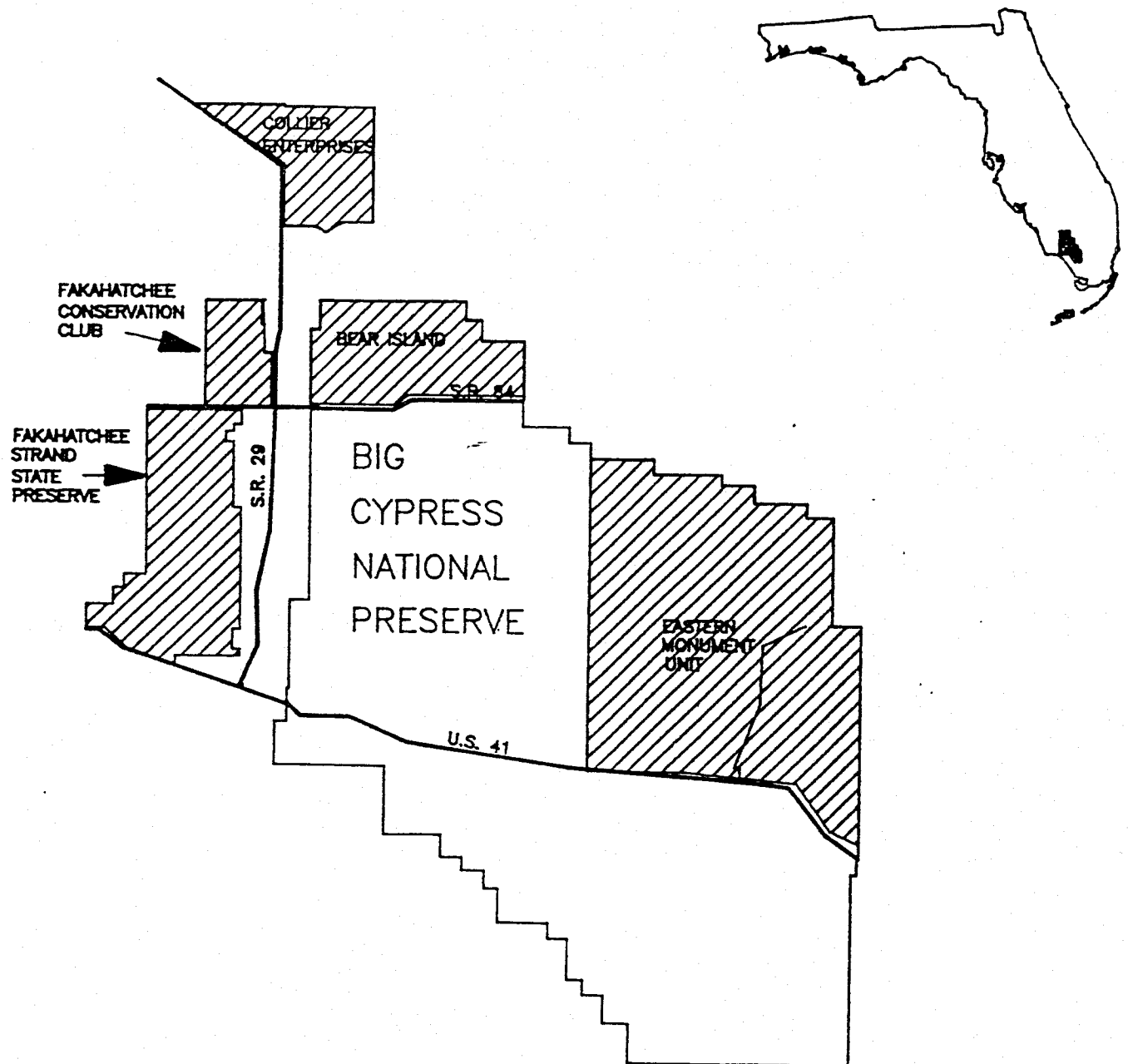


Figure 11. Southwest Florida study areas, deer health and reproductive status, 1988.

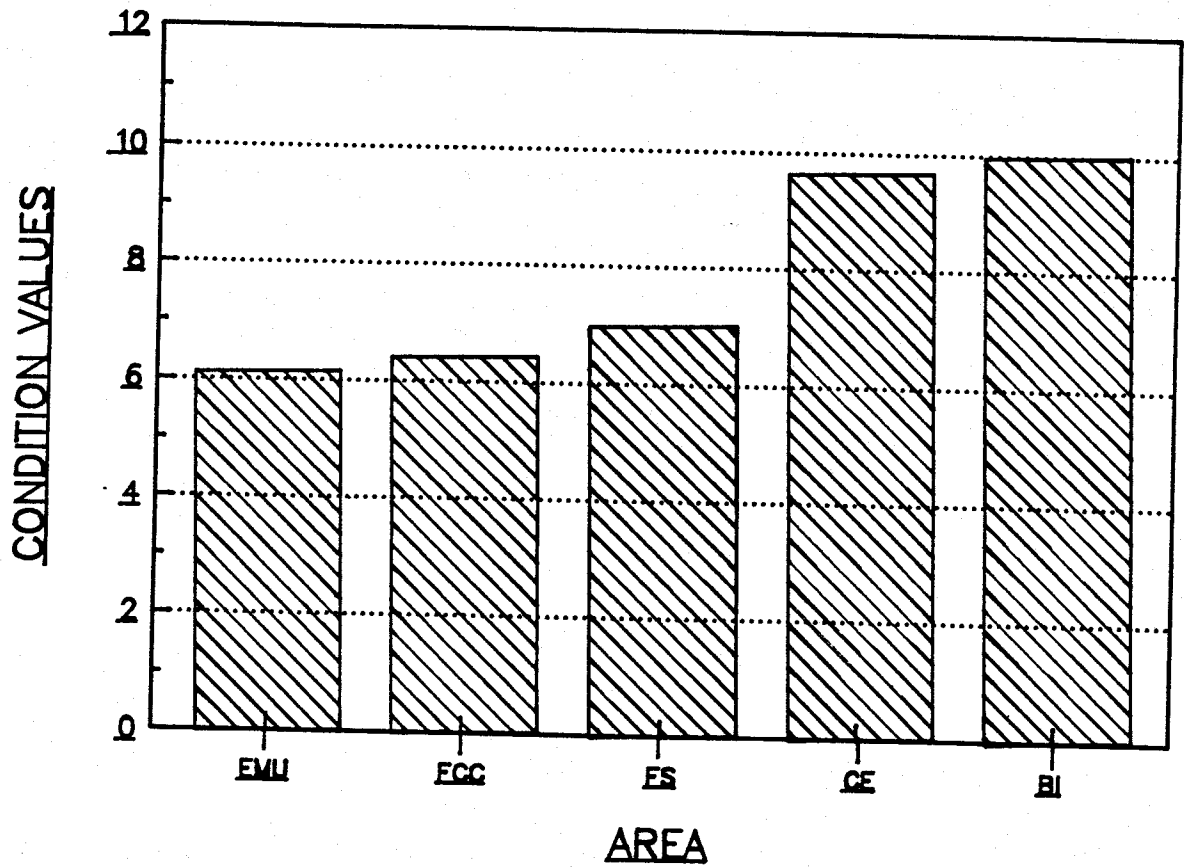


Figure 12. Mean condition values of adult does by area, October 1988. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

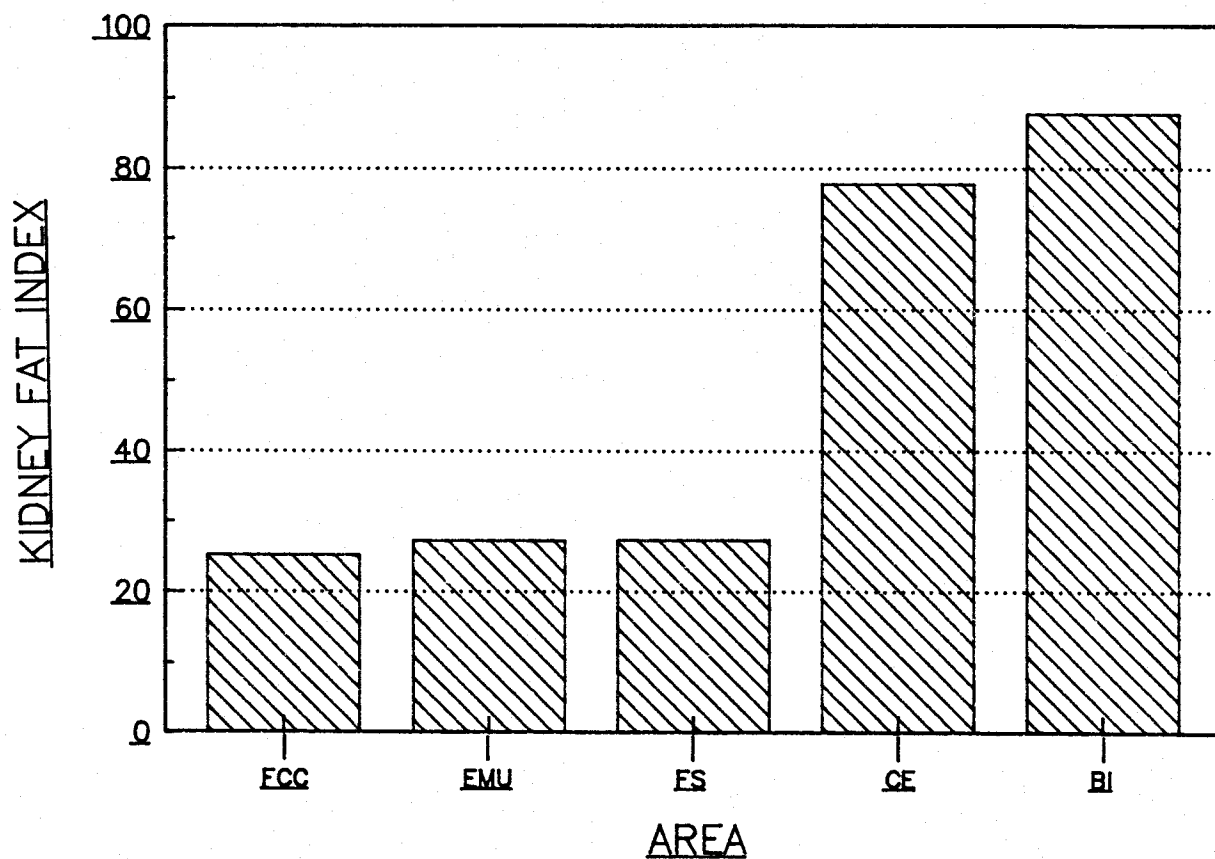


Figure 13. Mean kidney fat index values for adult does by area, October, 1988. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

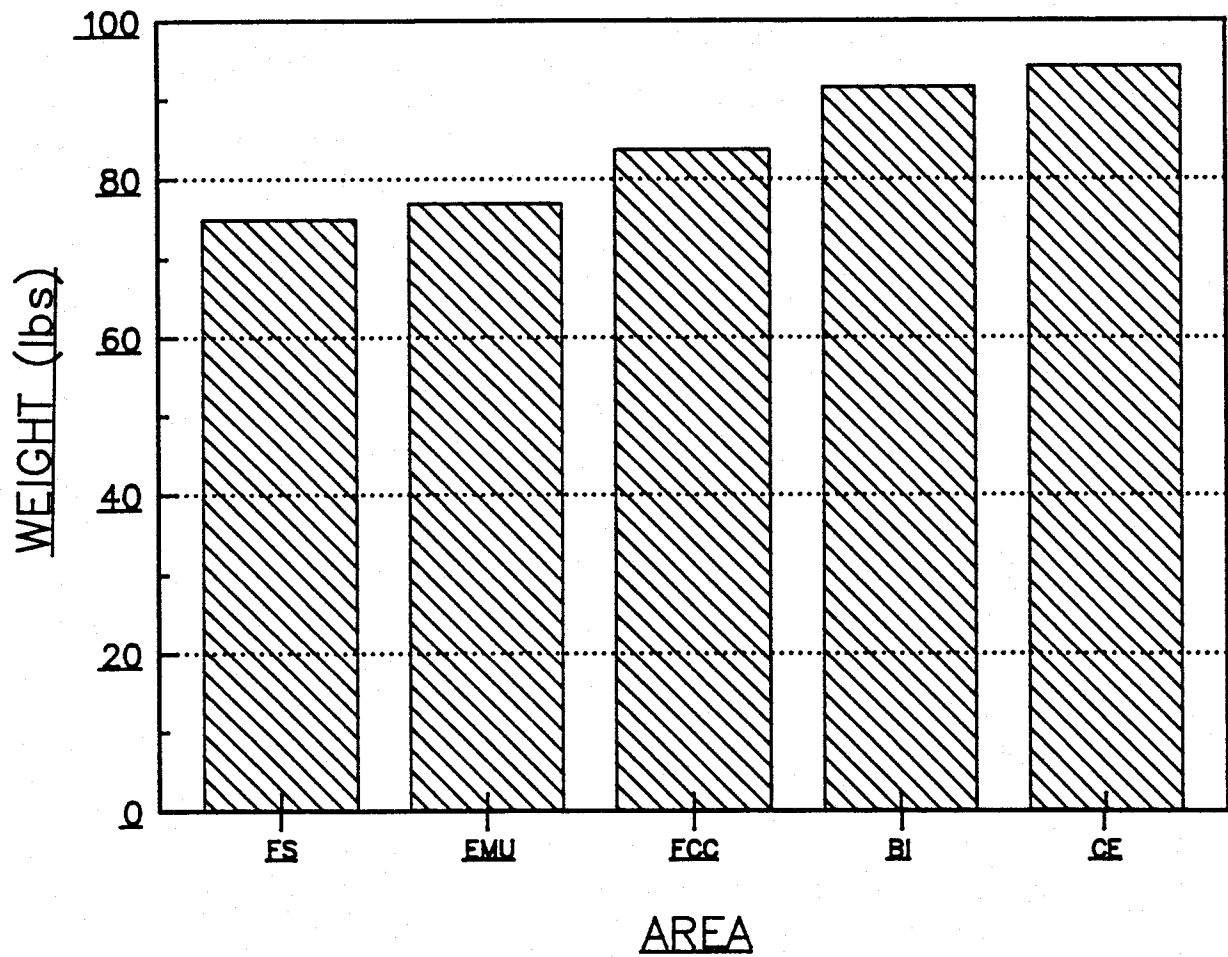


Figure 14. Mean live body weights of 2.5 year old doe deer by area, October, 1988. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

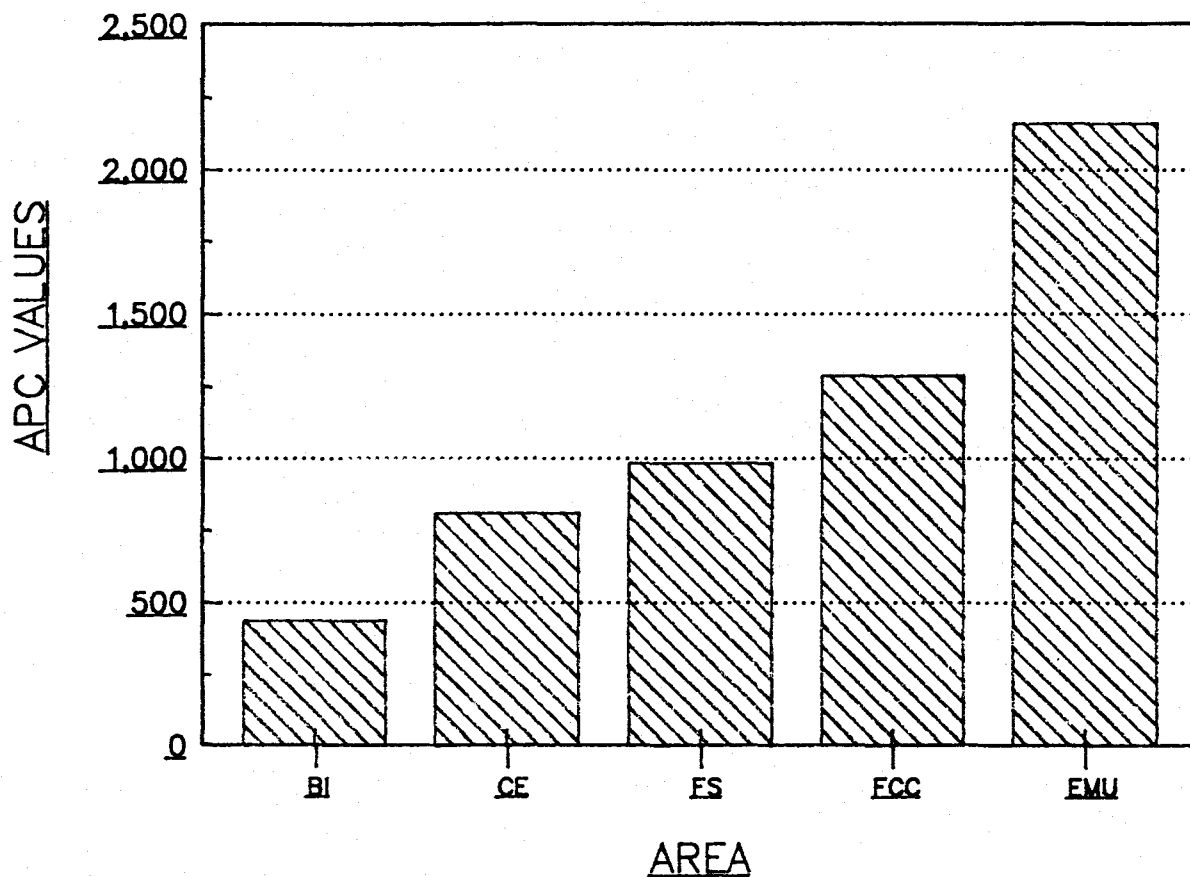


Figure 15. Mean APC values from adult deer by area, October, 1988. Areas include Bear Island (BI), Collier Enterprise (CE), Eastern Monument Unit (EMU), Fakahatchee Conservation Club (FCC) and Fakahatchee Strand State Preserve (FS).

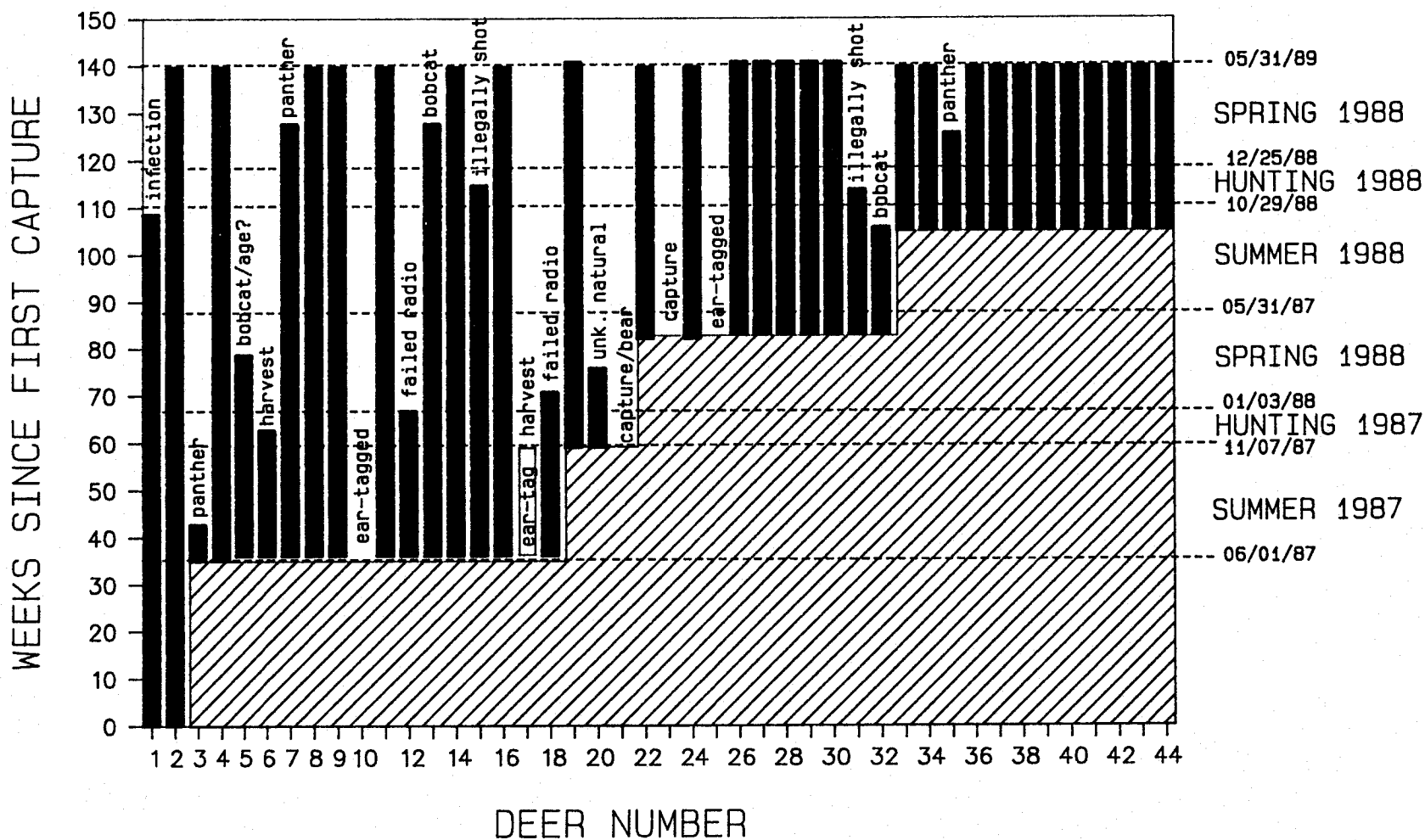
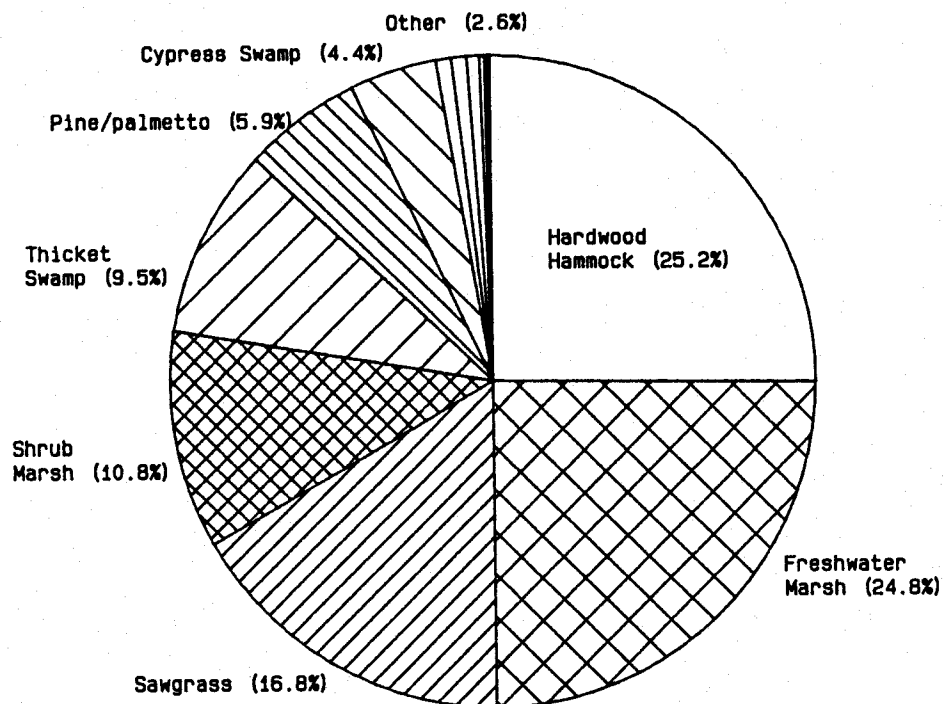
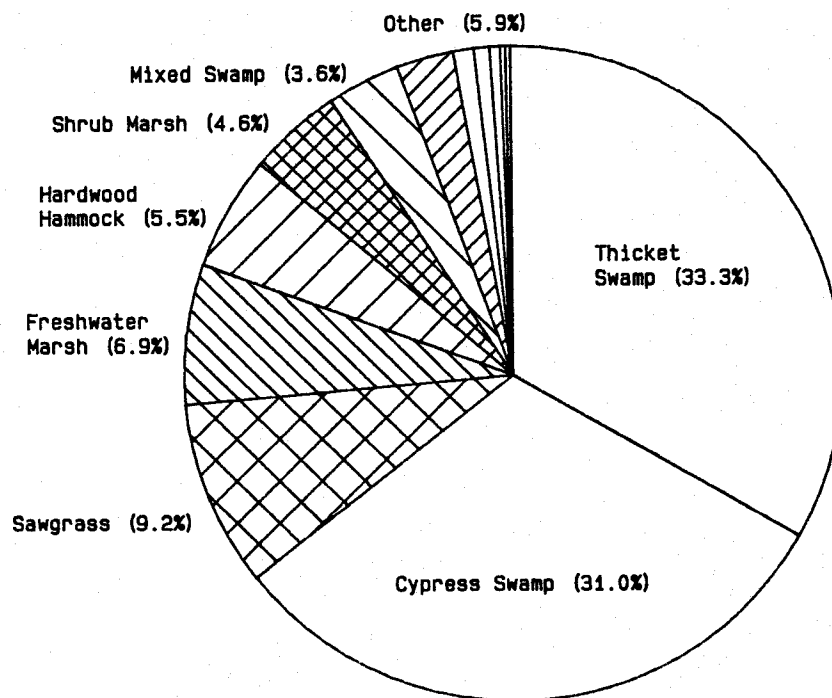


Figure 16. Fates of captured white-tailed deer, Bear Island Unit, Big Cypress National Preserve, September 1986 to June 1989.



EAST HINSON MARSH

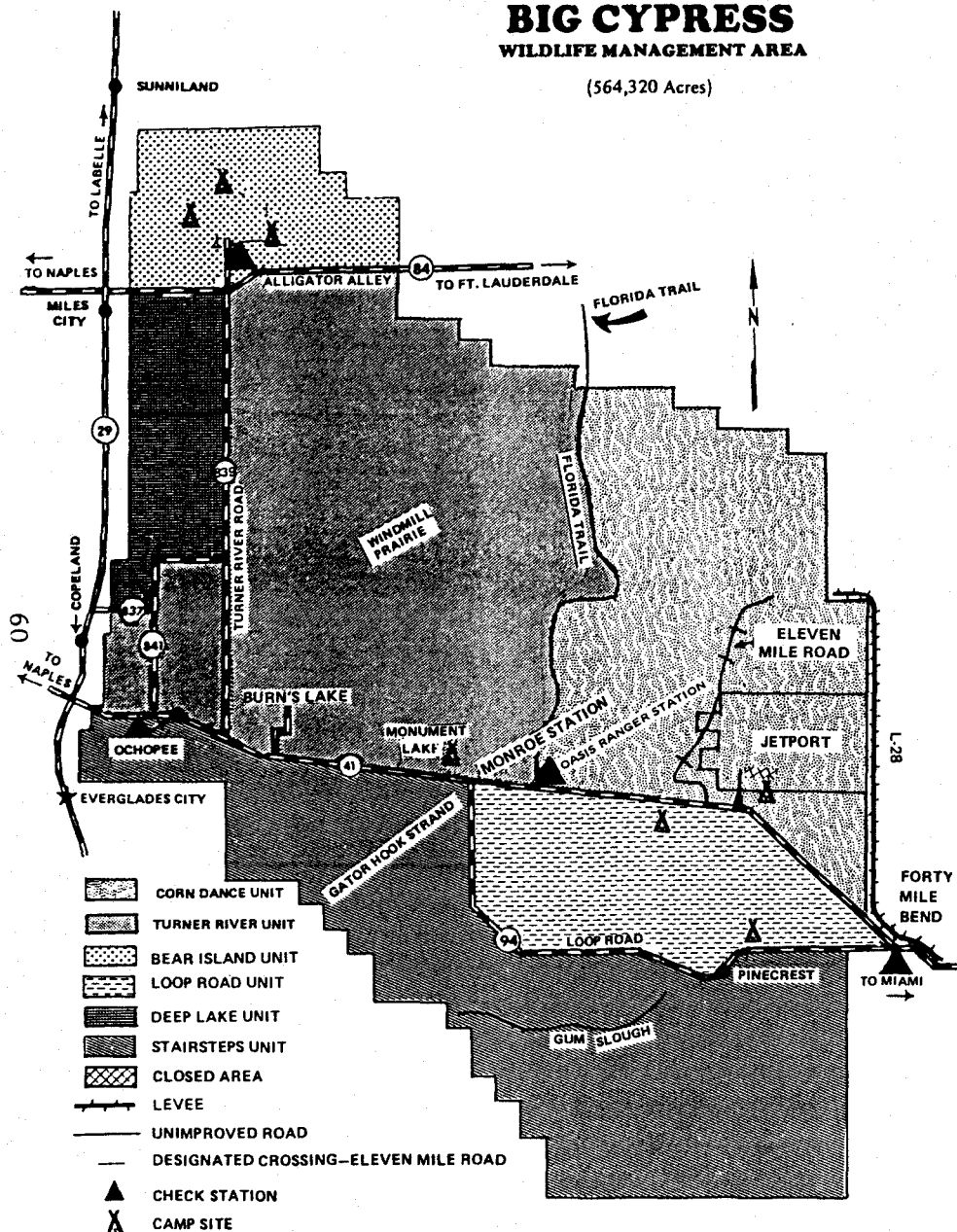


OKALOACOOCHEE SLOUGH

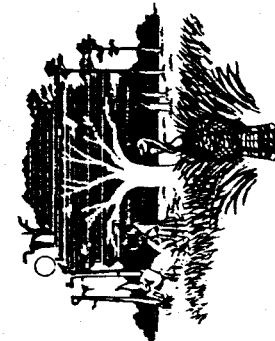
Figure 17. White-tailed deer habitat use, Bear Island Unit, Big Cypress National Preserve, September 1986 to June 1989.

BIG CYPRESS WILDLIFE MANAGEMENT AREA

(564,320 Acres)



BIG CYPRESS WILDLIFE MANAGEMENT AREA 1988-89 REGULATIONS SUMMARY AND AREA MAP



A COOPERATIVE PUBLIC HUNTING AREA
NATIONAL PARK SERVICE
FLORIDA 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 current Florida Hunting Handbook and 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 residents 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 licenses 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, Corn Dance, Turner River and Deep Lake units of this wildlife management area October 29 through November 6 of the general gun hunt. A no-cost special quota hunt permit is required to hunt on the Bear Island Unit from October 8 through 16 of the muzzleloading gun season.

A daily quota permit (available at the check station) is required for hunting each day after the first nine days of general gun season on the Bear Island Unit.

Regular quota permits are available in the following numbers by management unit: Bear Island 250, Stairsteps 1,000, Deep Lake 200, Corn Dance 300, Turner River 500 and Loop Road 250. There are 250 special quota permits available for the muzzleloading gun hunt in the Bear Island Unit (October 8 through 16).

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 \$3.50 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 \$10.00 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, 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.

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.

Appendix A. continued

8. Entering any fenced area within the Jetport area is prohibited.
9. The waste or willful waste of wildlife is prohibited.
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 is not required when hunting during an archery-only season.

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 right-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 seguns 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. The possession of any firearm containing shells or cartridges or any capped or primed muzzleloading gun is prohibited at campsites or check stations. The discharge of firearms is prohibited on, from or across any campsite or check station.
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 Corn Dance, Turner River, Deep Lake and Stairsteps units except October 29 through November 6.
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:

NOTICE: Prior to the 1988-89 hunting season, the National Park Service may implement vehicle use regulations different from those printed in this brochure, and these new rules may affect your use of the preserve. You are strongly encouraged to contact the Big Cypress National Preserve Office, State Road, Box 110, Ochopee, FL 33943 (813/695-2000) regarding any new vehicle use regulations prior to your use of the preserve.

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 Jetport road is prohibited.
36. Only vehicles equipped with pneumatic tires are permitted on the Jetport 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 Ocala 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 Corn Dance, Turner River, 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. During the archery, muzzleloading gun and general gun season all hunters shall check in and out at a designated check station when entering and exiting the area.
41. 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 as possible 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. Deer jawbones shall be saved and brought to the check station.

SEARCH:

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

ARCHERY:

- September 3 through 25.
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 one inch 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 8 through 23.
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 8 through 16).
- 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:

- October 29 through December 25.
Permit, Stamp and License Requirements—Hunting license, wildlife management area stamp, regular quota hunt permit (if hunting during the first

nine days), daily quota permit required on Bear Island Unit if hunting after November 6, 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:

December 26 through February 5.
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 11 through April 16.
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:

December 26 through February 5.
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 tree 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 fill 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.

The U.S. Department of the Interior prohibits discrimination on the basis of race, color, national origin, age, sex, or handicap. If you believe that you have been discriminated against in any program, activity, or facility as described above, or if you desire further information, please write to: The Office for Human Resources, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C. 20240.

NOTICE: Prior to the 1988-89 hunting season, the National Park Service may implement vehicle use regulations different from those printed in this brochure, and these new rules may affect your use of the preserve. You are strongly encouraged to contact the Big Cypress National Preserve office, State Road, Box 110, Ochopee, FL 33943 (813/695-2000) regarding any new vehicle use regulations prior to your use of the preserve.

This publication is one of 62 produced at an annual cost of \$50,958.75 or \$.06 cents per copy to provide information to the public about hunting on Florida's Wildlife Management Areas.

Appendix B. Deer survey data, Big Cypress National Preserve,
1984-1988.

Table A. Number of deer tracks observed by transect and survey
Bear Island unit, 1984-88.

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

Appendix B., Table A. 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
Annual	1	0	1	1	2	0.7
June 1988	2	0	1	3	4	1.3
	3	1	1	1	3	1
	4	2	4	2	8	2.7
					-----	-----
					17 (i)	1.4

- (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.

Appendix B., Table A. continued

- (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.

- (h) Annual 1987 based on 12 miles of transect =
3.75 deer/mile = 1 deer/171 acres;

Annual 1987 based on 4.68 miles of suitable transect =
9.62 deer/mile = 1 deer/67 acres.

- (i) Annual 1988 based on 12 miles of transect =
1.42 deer/mile = 1 deer/451 acres;

Annual 1988 based on 3.66 miles of suitable transect =
4.64 deer/mile = 1 deer/138 acres.

Appendix B Continued

Table B. Number of deer tracks observed by transect, Monument/Corn Dance Unit, 1985-88.

SURVEY DATE	TRANSECT NUMBER	DAY							TOTAL	MEAN
		1	2	3	4	5	6	7		
MAY 1988	1	5	5	7	4	-	-		21	5.3
	2	3	3	5	6	-	-		17	4.3
	3	4	1	1	3	-	-		9	2.3
	4	3	3	4	0	-	-		10	2.5
	5	4	6	7	3	-	-		20	5.0
	6	2	2	1	2	0	3		10	1.7
	7	3	0	4	4	3	4		18	3.0
	8	2	3	3	0	3	4		15	2.5
	9	2	2	2	1	3	4		14	2.3
	10	3	7	4	3	3	5		25	6.3
									---	---
									159	3.18
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
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

Appendix B., Table B. Continued

SURVEY DATE	TRANSECT NUMBER	DAY			TOTAL	MEAN
		1	2	3		
MAY 1985	1	2	1	4	7	2.3
	2	4	3	2	9	3.0
	3	1	2	3	6	2.0
	4	2	1	1	4	1.3
	5	2	0	1	3	1.0
	6	8	6	7	21	7.0
	7	2	4	3	9	3.0
	8	4	1	1	6	2.0
	9	0	2	2	4	1.3
	10	3	1	4	8	2.7
					---	---
					77	2.6

Appendix B. continued

Table C. Number of deer observed per mile during aerial surveys of the eastern Stairsteps unit, 1984-88.

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)

Appendix B., Table C. continued

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Pre-hunt Aug. 1986	1 (55)	0	1	1	0.16
	2	2	0	2	0.32
	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 Feb. 1987	1 (55)	0	0	0	0.00
	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 (f)
Annual May, 1987 (1 of 2)	1 (55)	0	0	0	0.00
	2	2	0	2	0.32
	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 May, 1987 (2 of 2)	1 (55)	0	0	0	0.00
	2	0	0	0	0.00
	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)

Appendix B., Table C. continued

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Annual May 1988	1 (55)	0	1	1	0.22
	2	3	0	3	0.42
	3	0	0	0	0.00
	4	8	4	12	1.45
	5	3	2	5	0.59
	6	4	0	4	0.41
	7	10	4	14	1.35
	8 (62)	6	6	12	1.16
				51	0.77 (i)

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

1. 100% of animals observed: .46 deer/72.7 acres x 1/1.00
1 deer/158 acres,
2. 50% of animals observed: .46 deer/72.7 acres x 1/.50 =
1 deer/79 acres.
3. 40% of animals observed: .46 deer/72.7 acres x 1/.40 =
1 deer/63 acres.

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

1. 100% of animals observed: .64 deer/79.3 acres x 1/1.00
1 deer/124 acres,
2. 50% of animals observed: .64 deer/79.3 acres x 1/.50 =
1 deer/62 acres.
3. 40% of animals observed: .64 deer/79.3 acres x 1/.40 =
1 deer/50 acres.

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

1. 100% of animals observed: .38 deer/79.3 acres x 1/1.00
1 deer/209 acres,
2. 50% of animals observed: .38 deer/79.3 acres x 1/.50 =
1 deer/104 acres.
3. 40% of animals observed: .38 deer/79.3 acres x 1/.40 =
1 deer/83 acres,

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

1. 100% of animals observed: .44 deer/79.3 acres x 1/1.00
1 deer/180 acres,
2. 50% of animals observed: .44 deer/79.3 acres x 1/.50 =
1 deer/90 acres.
3. 40% of animals observed: .44 deer/79.3 acres x 1/.40 =
1 deer/72 acres.

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

1. 100% of animals observed: .52 deer/79.3 acres x 1/1.00
1 deer/152 acres,
2. 50% of animals observed: .52 deer/79.3 acres x 1/.50 =
1 deer/76 acres.
3. 40% of animals observed: .72 deer/79.3 acres x 1/.40 =
1 deer/61 acres.

Appendix B., Table C. continued

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

1. 100% of animals observed: .39 deer/79.3 acres x 1/1.00
1 deer/200 acres,
2. 50% of animals observed: .39 deer/79.3 acres x 1/.50 =
1 deer/100 acres.
3. 40% of animals observed: .39 deer/79.3 acres x 1/.40 =
1 deer/80 acres.

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

1. 100% of animals observed: 0.06 deer/79.3 acres x 1/1.00
1 deer/1,322 acres.
2. 50% of animals observed: .06 deer/79.3 acres x 1/.50 =
1 deer/661 acres.
3. 40% of animals observed: .06 deer/79.3 acres x 1/.40 =
1 deer/529 acres.

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

1. 100% of animals observed: 0.03 deer/79.3 acres x 1/1.00
1 deer/2,643 acres.
2. 50% of animals observed: 0.03 deer/79.3 acres x 1/.50 =
1 deer/1,322 acres.
3. 40% of animals observed: 0.03 deer/79.3 acres x 1/.40 =
1 deer/1,057 acres.

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

1. 100% of animals observed: 0.77 deer/79.3 acres x 1/1.00
1 deer/103 acres.
2. 50% of animals observed: 0.77 deer/79.3 acres x 1/.50 =
1 deer/51 acres.
3. 40% of animals observed: 0.77 deer/79.3 acres x 1/.40 =
1 deer/41 acres.

Appendix C. Summary of vehicle surveys conducted on the Big Cypress National Preserve during selected hunting seasons, 1983-89.

	Vehicles Only						ATC						Swamp Buggy					
	83-84	84-85	85-86	86-87	87-88	88-89	83-84	84-85	85-86	86-87	87-88	88-89	83-84	84-85	85-86	86-87	87-88	88-89
ARCHERY																		
Opening weekend	52 a	141	90	91	140	109	41 a	56	21	6	2	4	22 a	32	38	32	53	45
1st week	41 a	74	60	42	58	100	18 a	18	4	3	2	2	14 a	19	18	11	29	33
2nd week	63 a	61	45	58	52	80	26 a	36	2	8	2	1	24 a	13	21	17	16	37
3rd week	36 a	79	56	56	49	67	22 a	29	9	3	6	4	11 a	23	29	28	26	34
MUZZLELOADING																		
Opening weekend	196	179	111 d	155	104	178	85	54	10 d	6	1	2	84	87	39 d	73	71	100
1st week	75 b	121	71	110	81	150	12 b	48	9	3	0	6	17 b	53	55	48	54	67
2nd week	82 b	97	81	103	90	141	28 b	31	7	6	0	4	41 b	43	38	42	61	64
GENERAL GUN																		
Opening weekend	367	406	348	371	389	422	142	134	41	34	11	34	164	219	157	165	191	246
Midweek	112	53	49				24	28	12				60	61	61			
1st week	204 b	242	179	224	208	235	98 b	66	33	18	4	15	60 b	94	91	107	132	96
2nd week	272 a	307	171	152	139	289	90 a	96	10	6	0	9	96 a	87	60	58	80	124
3rd week	172	206	250	210	181	190	84	69	17	21	2	7	65	64	110	79	121	60
4th week	103 a	225	137	141	114	306	55 a	63	10	4	2	19	56 a	68	49	60	75	122
5th week	104 a	177	105	126	125	190	33 a	52	9	3	4	3	31 a	59	50	56	67	69
6th week	81	138	78	115	126	194	13	55	4	6	8	3	19	43	45	53	53	103
7th week	88 a	245	167	182	138	179	24 a	89	7	5	2	7	36 a	93	67	74	62	107
8th week	231	338	249	247	234	92	109	79	10	7	0	16	112	93	92	102	84	53

Appendix C. continued

	Airboat						Totals					
	83-84	84-85	85-86	86-87	87-88	88-89	83-84	84-85	85-86	86-87	87-88	88-89

ARCHERY												
Opening weekend	10 a	4	5	2 c	12 c	15 c	125 a	212	154	131	207	173
1st week	8 a	7	12	4 c	0 c	9 c	81 a	118	94	60	89	144
2nd week	0 a	6	4	17 c	19 c	25 c	113 a	116	72	100	89	143
3rd week	7 a	10	0	15 c	0 c	5 c	76 a	141	94	102	81	110
MUZZLELOADING												
Opening weekend	26	19	9 d	7 c	15 c	13 c	391	339	169 d	241	191	293
1st week	10 b	12	7	6 c	28 c	31 c	114 b	234	142	167	163	254
2nd week	26 b	9	7	6 c	8 c	47 c	177 b	180	133	157	159	256
GENERAL GUN												
Opening weekend	140	140	128	114 c	146 c	227 c	813	899	674	684	737	895
Midweek	50	24 c	29 c				246	166	151			
1st week	39 b	57	32	50 c	74 c	89 c	401 b	459	335	399	418	435
2nd week	5 a	30	21	29 c	36 c	55 c	463 a	520	262	245	255	477
3rd week	31	26	2	32 c	46 c	44 c	352	365	379	342	350	301
4th week	22 a	31	16	18 c	35 c	41 c	236 a	387	212	223	226	488
5th week	24 a	7	11	12 c	21 c	53 c	192 a	295	175	197	217	315
6th week	9	15	10	17 c	28 c	31 c	122	251	137	191	215	331
7th week	10 a	16	18	31 c	36 c	38 c	158 a	443	259	292	238	331
8th week	46	33	12	56 c	62 c	20 c	498	543	363	412	380	181

-
- 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 D. Summary of biological data collected on deer harvested during the 1988-89 hunting seasons on the Big Cypress Wildlife Management Area.

REPORT 38

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						
DATA COLLECTED ON		148 DEER (148 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS	0.0% (0)	27.7% (41)	39.9% (59)	25.0% (37)	2.7% (4)	4.7% (7)		100.0% (148)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)		***** (0)
TOTAL	0.0% (0)	27.7% (41)	39.9% (59)	25.0% (37)	2.7% (4)	4.7% (7)		100.0% (148)
								TOTAL 1.5+
AVERAGES								
LIVE WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	81.67 (3) (70 TO 90)	100.25 (4) (86 TO 110)	110.00 (8) (85 TO 136)	***** (0) (*** TO ***)	***** (0) (*** TO ***)		101.73 (15) (70 TO 136)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)		***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	81.67 (3) (70 TO 90)	100.25 (4) (86 TO 110)	110.00 (8) (85 TO 136)	***** (0) (*** TO ***)	***** (0) (*** TO ***)		101.73 (15) (70 TO 136)
30% WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	62.89 (28) (50 TO 80)	70.73 (40) (56 TO 95)	76.89 (28) (57 TO 100)	88.33 (3) (70 TO 105)	92.75 (4) (85 TO 98)		71.64 (103) (50 TO 105)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)		***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	62.89 (28) (50 TO 80)	70.73 (40) (56 TO 95)	76.89 (28) (57 TO 100)	88.33 (3) (70 TO 105)	92.75 (4) (85 TO 98)		71.64 (103) (50 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) (*****-*****)	4.94 (39) (3.50- 9.00)	5.96 (58) (3.80-16.00)	7.22 (37) (5.00-15.50)	8.69 (4) (7.50- 9.50)	8.92 (6) (7.00-12.00)		5.21 (144) (3.50-16.00)

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						REPORT 38
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS		***** (0) (*****-*****)	14.45 (39) (4.50-37.40)	20.45 (58) (10.00-35.00)	26.27 (37) (12.00-42.00)	37.44 (4) (32.00-44.00)	34.01 (6) (28.00-41.50)	21.24 (144) (4.50-44.00)
NUMBER OF POINTS								
2	0(*****Z)	25(65.79Z)	15(27.78Z)	4(12.90Z)	0(0.00Z)	0(0.00Z)	44(33.08Z)	
3	0(*****Z)	5(13.16Z)	5(9.26Z)	1(3.23Z)	0(0.00Z)	1(14.29Z)	12(9.02Z)	
4	0(*****Z)	5(13.16Z)	12(22.22Z)	10(32.26Z)	0(0.00Z)	0(0.00Z)	27(20.30Z)	
5	0(*****Z)	1(2.63Z)	7(12.96Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	8(6.02Z)	
6	0(*****Z)	1(2.63Z)	6(11.11Z)	6(19.35Z)	1(33.33Z)	2(28.57Z)	16(12.03Z)	
7	0(*****Z)	0(0.00Z)	6(11.11Z)	6(19.35Z)	0(0.00Z)	2(28.57Z)	14(10.53Z)	
8	0(*****Z)	1(2.63Z)	2(3.70Z)	3(9.68Z)	1(33.33Z)	1(14.29Z)	8(6.02Z)	
9	0(*****Z)	0(0.00Z)	1(1.85Z)	0(0.00Z)	0(0.00Z)	1(14.29Z)	2(1.50Z)	
10	0(*****Z)	0(0.00Z)	0(0.00Z)	1(3.23Z)	1(33.33Z)	0(0.00Z)	2(1.50Z)	
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		**** 2.7	4.3	5.3	8.0	6.6	4.3	

SUMMARY OF REPRODUCTION

74

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) (*****-*****)	NUMBER OF ADULT(1.5+) DOES WITH				0 FETUSES = 0(*****Z)	
						1 FETUS = 0(*****Z)	
						2 FETUSES = 0(*****Z)	
AVG. PARTURITION DATE	***** (0) (*****-*****)					3 FETUSES = 0(*****Z)	

ABOMASUM PARASITE COUNT SUMMARY

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

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

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

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NUMBER LARGE WORMS

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

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% 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 ***)

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Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 1		REPORT 1
DATA COLLECTED ON		37 DEER (37 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	24.3% (9)	40.5% (15)	27.0% (10)	0.0% (0)	8.1% (3)	100.0% (37)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	24.3% (9)	40.5% (15)	27.0% (10)	0.0% (0)	8.1% (3)	100.0% (37)
								TOTAL 1.5+
AVERAGES								
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	95.50 (2) (86 TO 105)	122.50 (2) (109 TO 136)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	109.00 (4) (86 TO 136)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	95.50 (2) (86 TO 105)	122.50 (2) (109 TO 136)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	109.00 (4) (86 TO 136)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	66.11 (9) (50 TO 80)	71.00 (12) (56 TO 89)	79.75 (8) (67 TO 95)	***** (0) (*** TO ***)	95.33 (3) (92 TO 98)	74.09 (32) (50 TO 98)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	66.11 (9) (50 TO 80)	71.00 (12) (56 TO 89)	79.75 (8) (67 TO 95)	***** (0) (*** TO ***)	95.33 (3) (92 TO 98)	74.09 (32) (50 TO 98)
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) (*****-*****)	4.89 (9) (3.50- 6.00)	5.60 (14) (3.80- 7.50)	6.80 (10) (5.20-10.00)	***** (0) (*****-*****)	9.72 (3) (7.50-12.00)	6.11 (36) (3.50-12.00)

Appendix D. continued

BIG CYPRESS AGE CLASS MAIN BEAM LENGTH (CM)	WILDLIFE MANAGEMENT AREA		ZONE NO. 1				REPORT 1	
	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+	
BUCKS	***** (0) (*****-*****)	16.47 (9) (7.50-28.50)	23.31 (14) (12.00-32.00)	29.26 (10) (17.50-42.00)	***** (0) (*****-*****)	36.17 (3) (29.00-41.50)	24.22 (36) (7.50-42.00)	
NUMBER OF POINTS								
2	0(*****Z)	5(62.50Z)	3(21.43Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	8(25.00Z)	
3	0(*****Z)	1(12.50Z)	1(7.14Z)	1(14.29Z)	0(*****Z)	0(0.00Z)	3(9.37Z)	
4	0(*****Z)	1(12.50Z)	3(21.43Z)	3(42.86Z)	0(*****Z)	0(0.00Z)	7(21.87Z)	
5	0(*****Z)	1(12.50Z)	2(14.29Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	3(9.37Z)	
6	0(*****Z)	0(0.00Z)	3(21.43Z)	1(14.29Z)	0(*****Z)	0(0.00Z)	4(12.50Z)	
7	0(*****Z)	0(0.00Z)	1(7.14Z)	1(14.29Z)	0(*****Z)	1(33.33Z)	3(9.37Z)	
8	0(*****Z)	0(0.00Z)	0(0.00Z)	1(14.29Z)	0(*****Z)	1(33.33Z)	2(6.25Z)	
9	0(*****Z)	0(0.00Z)	1(7.14Z)	0(0.00Z)	0(*****Z)	1(33.33Z)	2(6.25Z)	
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	
AVERAGE	****	2.7	4.6	5.1	****	8.0	4.6	
SUMMARY OF REPRODUCTION								
FAWNS PER EXAMINED DOE FROM FETUS COLLECTIONS	*** (0)	*** (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	*****Z/*****Z
AVG. CONCEPTION DATE	***** (0) (*****-*****)							
AVG. PARTURITION DATE	***** (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	: *****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 D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 2		REPORT 2
DATA COLLECTED ON		1 DEER (1 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 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)	0.0% (0)	100.0% (1)	0.0% (0)	0.0% (0)	100.0% (1)	
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (1)	0.0% (0)	0.0% (0)	100.0% (1)	
								TOTAL 1.5+
AVERAGES								
LIVE WEIGHT (LBS)								
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	118.00 (1) (118 TO 118)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	118.00 (1) (118 TO 118)	
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	118.00 (1) (118 TO 118)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	118.00 (1) (118 TO 118)	
30% 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 ***)	
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) (*****-*****)	***** (0) (*****-*****)	8.30 (1) (8.30- 8.30)	***** (0) (*****-*****)	***** (0) (*****-*****)	8.30 (1) (8.30- 8.30)	

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA			ZONE NO. 2		REPORT 2	
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS		***** (0) (*****-*****)	***** (0) (*****-*****)	***** (0) (*****-*****)	34.25 (1) (33.00-35.50)	***** (0) (*****-*****)	***** (0) (*****-*****)	34.25 (1) (33.00-35.50)
NUMBER OF POINTS								
2		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
3		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
4		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
5		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
6		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
7		0(*****Z)	0(*****Z)	0(*****Z)	1(100.00Z)	0(*****Z)	0(*****Z)	1(100.00Z)
8		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
9		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
10		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
11		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
12		0(*****Z)	0(*****Z)	0(*****Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
AVERAGE		****	****	****	7.0	****	****	7.0
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) (*****-*****)						
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 ***)						

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA					ZONE NO. 3	REPORT 3
DATA COLLECTED ON		13 DEER (13 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	38.5% (5)	23.1% (3)	15.4% (2)	15.4% (2)	7.7% (1)	100.0% (13)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	38.5% (5)	23.1% (3)	15.4% (2)	15.4% (2)	7.7% (1)	100.0% (13)
AVERAGES								TOTAL 1.5+
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	100.00 (1) (100 TO 100)	112.00 (1) (112 TO 112)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	106.00 (2) (100 TO 112)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	100.00 (1) (100 TO 100)	112.00 (1) (112 TO 112)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	106.00 (2) (100 TO 112)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	60.00 (2) (55 TO 65)	63.00 (1) (63 TO 63)	70.00 (1) (70 TO 70)	105.00 (1) (105.00 105.00)	***** (0) (*** TO ***)	71.60 (5) (55 TO 105)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	60.00 (2) (55 TO 65)	63.00 (1) (63 TO 63)	70.00 (1) (70 TO 70)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	71.60 (5) (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) (*****-*****)	5.25 (4) (4.50- 6.00)	8.45 (3) (4.50-16.00)	5.75 (2) (5.50- 6.00)	9.25 (2) (9.00- 9.50)	***** (0) (*****-*****)	6.94 (11) (4.50-16.00)

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA					ZONE NO. 3	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) (*****-*****)	14.87 (4) (10.50-21.00)	18.32 (3) (11.00-28.00)	21.13 (2) (19.00-23.5)	38.90 (2) (35.00-44.00)	***** (0) (*****-*****)	21.32 (11) (10.50-44.00)
NUMBER OF POINTS								
2	0(*****Z)	3(60.00Z)	2(66.67Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	6(46.15Z)
3	0(*****Z)	1(20.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(7.69Z)
4	0(*****Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(7.69Z)
5	0(*****Z)	0(0.00Z)	1(33.33Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(7.69Z)
6	0(*****Z)	1(20.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	2(15.38Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
8	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	1(7.69Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	1(7.69Z)
11	0(*****Z)	0(0.00Z)	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)	0(0.00Z)
AVERAGE		****	3.0	3.0	3.0	9.0	6.0	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:		*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z	*****Z/*****Z
AVG. CONCEPTION DATE		***** (0) (*****-*****)						
AVG. PARTURITION DATE		***** (0) (*****-*****)						
ABOMASUM PARASITE COUNT SUMMARY								
FAWNS		***** (0) (*****-*****)						
ADULTS		***** (0) (*****-*****)						
TOTAL		***** (0) (*****-*****)						
NUMBER LARGE WORMS								
FAWNS		***** (0) (*****-*****)						
ADULTS		***** (0) (*****-*****)						
TOTAL		***** (0) (*****-*****)						
Z OF EXAMINED DEER WITH LUNG WORMS		: *****Z (0 OUT OF 0)						
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER		: ***(** TO **)						
Z OF EXAMINED DEER WITH LIVER FLUKES		: *****Z (0 OUT OF 0)						
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER		: *** (** TO **)						

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 4		REPORT 4	
DATA COLLECTED ON		10 DEER (10 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON							
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL	
HARVEST BY SEX									
BUCKS		0.0% (0)	10.0% (1)	30.0% (3)	40.0% (4)	10.0% (1)	10.0% (1)	100.0% (10)	
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	
TOTAL		0.0% (0)	10.0% (1)	30.0% (3)	40.0% (4)	10.0% (1)	10.0% (1)	100.0% (10)	
								TOTAL 1.5+	
AVERAGES									
LIVE WEIGHT (LBS)									
BUCKS		***** (0) (*** TO ***)	70.00 (1) (70 TO 70)	110.00 (1) (110 TO 110)	90.00 (2) (85 TO 95)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	90.00 (4) (70 TO 110)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	70.00 (1) (70 TO 70)	110.00 (1) (110 TO 110)	90.00 (2) (85 TO 95)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	90.00 (4) (70 TO 110)	
30% WEIGHT (LBS)									
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	75.00 (2) (70 TO 80)	66.75 (4) (57 TO 75)	70.00 (1) (70 TO 70)	85.00 (1) (85 TO 85)	71.50 (8) (57 TO 85)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	75.00 (2) (70 TO 80)	66.75 (4) (57 TO 75)	70.00 (1) (70 TO 70)	85.00 (1) (85 TO 85)	71.50 (8) (57 TO 85)	
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) (*****-*****)	4.75 (1) (4.50- 5.00)	6.25 (3) (5.00- 7.00)	6.12 (4) (5.00- 8.00)	8.75 (1) (8.50- 9.00)	7.50 (1) (7.00- 8.00)	6.42 (10) (4.50- 9.00)	

Appendix D. continued

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 4
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0) (*****-*****)	12.75 (1) (10.00-15.50)	19.83 (3) (12.00-24.50)	21.12 (4) (12.00-35.00)	32.50 (1) (32.00-33.00)	30.55 (1) (30.30-30.80)	21.98 (10) (10.00-35.00)
NUMBER OF POINTS							
2	0(*****Z)	0(0.00Z)	0(0.00Z)	1(25.00Z)	0(0.00Z)	0(0.00Z)	1(10.00Z)
3	0(*****Z)	1(100.00Z)	1(33.33Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	3(30.00Z)
4	0(*****Z)	0(0.00Z)	1(33.33Z)	2(50.00Z)	0(0.00Z)	0(0.00Z)	3(30.00Z)
5	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
6	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	0(0.00Z)	1(10.00Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	1(25.00Z)	0(0.00Z)	0(0.00Z)	1(10.00Z)
8	0(*****Z)	0(0.00Z)	1(33.33Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	1(10.00Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
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	***** 3.0	3.0	5.0	4.3	6.0	3.0	4.4

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 **)

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 5		REPORT 5
DATA COLLECTED ON		81 DEER (81 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON						
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		0.0% (0)	29.6% (24)	45.7% (37)	23.5% (19)	1.2% (1)	0.0% (0)	100.0% (81)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		0.0% (0)	29.6% (24)	45.7% (37)	23.5% (19)	1.2% (1)	0.0% (0)	100.0% (81)
								TOTAL 1.5+
AVERAGES								
LIVE WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	85.00 (1) (85 TO 85)	***** (0) (*** TO ***)	112.50 (2) (110 TO 115)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	103.33 (3) (85 TO 115)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	85.00 (1) (85 TO 85)	***** (0) (*** TO ***)	112.50 (2) (110 TO 115)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	103.33 (3) (85 TO 115)
30% WEIGHT (LBS)								
BUCKS		***** (0) (*** TO ***)	61.53 (17) (50 TO 75)	70.79 (24) (60 TO 95)	78.53 (15) (60 TO 100)	90.00 (1) (90 TO 90)	***** (0) (*** TO ***)	70.40 (57) (50 TO 100)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	61.53 (17) (50 TO 75)	70.79 (24) (60 TO 95)	78.53 (15) (60 TO 100)	90.00 (1) (90 TO 90)	***** (0) (*** TO ***)	70.40 (57) (50 TO 100)
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) (*****-*****)	4.75 (23) (4.00- 6.00)	5.87 (37) (4.00- 8.00)	7.76 (19) (6.00-15.50)	7.50 (1) (7.50- 7.50)	***** (0) (*****-*****)	6.01 (80) (4.00-15.50)

Appendix D. continued

BIG CYPRESS	WILDLIFE MANAGEMENT AREA						REPORT 5
AGE CLASS	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0) (*****-*****)	12.88 (23) (4.50-22.50)	19.60 (37) (10.00-35.00)	25.64 (19) (17.00-35.00)	41.50 (1) (41.50-41.50)	***** (0) (*****-*****)	19.10 (80) (4.50-41.50)
NUMBER OF POINTS							
2	0(*****Z)	17(77.27Z)	10(30.30Z)	2(12.50Z)	0(*****Z)	0(*****Z)	29(40.25Z)
3	0(*****Z)	1(4.55Z)	3(9.09Z)	0(0.00Z)	0(*****Z)	0(*****Z)	4(5.63Z)
4	0(*****Z)	4(18.18Z)	8(24.24Z)	3(18.75Z)	0(*****Z)	0(*****Z)	15(21.13Z)
5	0(*****Z)	0(0.00Z)	3(9.09Z)	0(0.00Z)	0(*****Z)	0(*****Z)	3(4.23Z)
6	0(*****Z)	0(0.00Z)	3(9.09Z)	5(31.25Z)	0(*****Z)	0(*****Z)	8(11.27Z)
7	0(*****Z)	0(0.00Z)	5(15.15Z)	3(18.75Z)	0(*****Z)	0(*****Z)	8(11.27Z)
8	0(*****Z)	0(0.00Z)	1(3.03Z)	2(12.50Z)	0(*****Z)	0(*****Z)	3(4.23Z)
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)	1(6.25Z)	0(*****Z)	0(*****Z)	1(1.41Z)
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	****	2.4	4.2	5.8	****	****	4.0
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) (*****-*****)						
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 ***)						

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA				ZONE NO. 6				REPORT 6	
DATA COLLECTED ON		6 DEER (6 BUCKS, 0 DOES) IN THIS AREA IN THE 1988-89 SEASON									
AGE CLASS		0.5		1.5		2.5		3.5		TOTAL	
HARVEST BY SEX		0.5		1.5		2.5		3.5		TOTAL	
BUCKS		0.0% (0)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	33.3% (2)	100.0% (6)			
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)			
TOTAL		0.0% (0)	33.3% (2)	16.7% (1)	16.7% (1)	0.0% (0)	33.3% (2)	100.0% (6)			
AVERAGES									TOTAL 1.5+		
LIVE WEIGHT (LBS)											
BUCKS		***** (0) (*** TO ***)	90.00 (1) (90 TO 90)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	90.00 (1) (90 TO 90)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	90.00 (1) (90 TO 90)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	90.00 (1) (90 TO 90)	
30% WEIGHT (LBS)											
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	65.00 (1) (65 TO 65)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	65.00 (1) (65 TO 65)	
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	65.00 (1) (65 TO 65)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	65.00 (1) (65 TO 65)	
CONDITION INDEX											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRCUM. (CM)											
BUCKS		***** (0) (*** TO ***)	***** (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 ***)	***** (0) (*** TO ***)	
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	
MAIN BEAM CIRC											

Appendix D. continued

BIG CYPRESS		WILDLIFE MANAGEMENT AREA		ZONE NO. 6		REPORT 6		
AGE CLASS		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS		***** (0) (*****-*****)	23.47 (2) (10.00-37.40)	18.00 (1) (15.00-21.00)	34.65 (1) (32.00-37.30)	***** (0) (*****-*****)	32.50 (2) (28.00-36.50)	27.43 (6) (10.00-37.40)
NUMBER OF POINTS								
2	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
3	0(*****Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	1(16.67Z)	1(16.67Z)
4	0(*****Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	0(*****Z)	0(0.00Z)	1(16.67Z)	1(16.67Z)
5	0(*****Z)	0(0.00Z)	1(100.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	1(16.67Z)	1(16.67Z)
6	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	1(50.00Z)	1(16.67Z)	1(16.67Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	1(50.00Z)	1(16.67Z)	1(16.67Z)
8	0(*****Z)	1(50.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	1(16.67Z)	1(16.67Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)
AVERAGE		****	5.5	5.0	4.0	****	6.5	5.5
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) (*****-*****)								
							0 FETUSES = 0(*****Z)	
							1 FETUS = 0(*****Z)	
							2 FETUSES = 0(*****Z)	
							3 FETUSES = 0(*****Z)	
ABDOMASUM 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 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 E. Habitat types of the Bear Island Unit, Big Cypress National Preserve, Florida.

I. Pine flatwoods or low pinelands (PP) - Slash pine (Pinus elliotii var. densa) growing as open forests on moderately well drained to poorly drained soils; usually associated with saw-palmetto (Serenoa repens) or wet prairies and contain many ponds and sloughs with marshes.

A. Pine and cabbage palm woods (PC) - Usually small areas where cabbage palm (Sabal palmetto) is scattered among the pines.

II. Hammock forests (HH) - Hardwood and palm forests usually dominated by broad-leaved evergreen trees and limited to small areas, growing on high upland to seasonally flooded soils and containing a great variety of south temperate to tropical species. Often a climax forest.

A. Cabbage palm hammocks (CA) - Dominated by cabbage palm and mostly low hammocks near swamps, in prairies, and pine flatwoods forests.

III. Inland swamps, cypress forests - Many types of forests on seasonally wet to continually flooded soils.

A. Mixed swamps (MS) - Forest of hardwoods with cypress (Taxodium distichum) present but not dominant. May include many low hammocks.

B. Cypress swamps (CS) - Usually seasonally flooded forests composed mainly of tall cypress trees with few to no hardwood trees. Includes cypress domes.

C. Open cypress forests (OC) - Low to medium tall, open forests of cypress often associated with pine forests and wet prairies, covering large areas in the Big Cypress region. Includes strands and scrub cypress.

D. Thicket swamps (TS) - Elderberry (Sambucus canadensis), willow (Salix caroliniana), and pop ash (Fraxinus caroliniana) thickets of low trees and tall herbs often occurring on areas that have been cleared then abandoned.

APPENDIX E.cont.

IV. Everglades and fresh water marshes (MA) - Treeless vegetation dominated by sedges, rushes, grasses, reeds, and other herbaceous plants, growing on soils that are seasonally wet or covered by water most of the year.

A. Saw grass marshes (SG) - Usually muck and peat soil areas dominated by saw grass (Cladium jamaicensis), covering the greater part of the Everglades and occurring in many pond and sloughs outside of the Everglades, particularly in some parts of the flatwoods region.

B. Flag marshes (FM) - Mixed marshes dominated by Sagittaria or Pontederia; common in shallow ponds and sloughs.

C. Mixed herb and shrub marshes (SM) - Marshes of many types with Myrica, Cephalanthus (buttonbush), and Baccharis and other shrubs common. Occurring as transitional zones between marshes and bayheads, or between marshes and other swamps.

V. Wet prairies (WP) - Low dominantly grassy vegetation of seasonally wet soils. Usually distinguished from marshes by having less water and shorter herbage. Often marginal between marsh and forest areas in the flatlands regions.

VI. Dry prairies (DP) - Usually seldom flooded dry sand areas with grasses, saw palmetto, and other low shrubs. These treeless areas are often similar to the pine flatwoods but without pines.

A. Cabbage palm hammock prairies (CP) - Seldom flooded treeless grassy prairies in areas where cabbage palm hammocks are common.

VII. Agricultural/Disturbed (AD) - Includes areas formerly occupied by vegetation communities as described above, but now converted to agriculture, improved pasture, rock mines, urban areas, roadsides, etc. Scattered remnants of previous community may still exist.

Adapted from: Davis, J.H. 1943. The natural features of southern Florida. Florida Geol. Surv. Geol. Bull. 25.
311 pp.