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BIG CYPRESS NATIONAL PRESERVE
DEER AND HOG ANNUAL REPORT

1992-93

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EXECUTIVE SUMMARY

Prior to the 1990-91 season the National Park Service (NPS) and the Game and Fresh Water Fish Commission (GFC) agreed to several regulation changes on the Big Cypress National Preserve (BCNP) with the proviso that additional changes be held to a minimum for a period of five years. No additional rules or regulations were enacted for the 1992-93 hunting season except for allowing archery hunting in Deep Lake Unit during archery season. During previous years regulatory changes have been implemented on BCNP either to reduce white-tailed deer (*Odocoileus virginianus*) and wild hog (*Sus scrota*) harvest or to reduce recreational pressure on the area.

Hunting pressure during the 1992-93 Big Cypress season (16,534 man-days) decreased 3% from 1991-92 (17,083 man-days). Hunting pressure decreased on Deep Lake, Stairsteps, and Loop units but increased slightly on all other units, compared to last years levels.

Checked deer harvest (226) reached the highest level ever recorded on BCNP and was 5% greater than last year. Deer harvest increased in the Bear Island, Turner River, and Stairsteps Units. Hog harvest (181) returned to a moderate level from a record harvest last year, decreasing in each unit. Deer harvest for General Gun season increased 8% over last season, while hog harvest decreased by 14%. Hunter success (game checked/man-day) was 0.025, down slightly from last years record of 0.028.

White-tailed deer morphometric values appear to be similar to values recorded since implementation of the 5-inch antler rule. Mean body weight and antler characteristics were in the upper range of values recorded since the rule (1986-87). Except for average number of antler points which was

lower. Parameters measuring physical characteristics of wild hogs harvested in 1992-93 were less than last year. Higher morphometric values for deer in recent years could be related to availability of more nutritious food. Increased prescribed burning could have played an important role in improving forage quality on BCNP. Lower values for hogs may be due to a larger percentage of young animals in the harvest and higher water levels.

INTRODUCTION

Deer and wild hog are important game animals on Big Cypress National Preserve (BCNP). Deer and hog hunting constitutes a significant component of recreation on the area (Jansen 1986). Deer and hog are also important food items for the Florida panther (Felis concolor coryi) (Belden 1983, Maehr et al. 1990). The purpose of this report is to provide census, harvest and biological information collected on these species during 1992-93 on BCNP.

Hunting

Hunts were held as scheduled with deer and hog hunting permitted during Archery (30 days), Muzzleloader (16 days) and General Gun (49 days) hunts. In addition to statewide rules these hunts were governed by specific regulations for BCNP (Appendix A). Major regulation changes have been enacted since the 1984-85 hunt season and have been summarized in previous reports (see Big Cypress National Preserve Deer and Hog Annual Report 1990-91). Prior to the 1990-91 season the National Park Service and the Game and Fish Commission (GFC) agreed to several regulation changes with the proviso that additional changes be held to a minimum for a period of 5 years. The 1992-93 season fell within the third year of that agreement. No major regulation changes were implemented for the 1992-93 season except that Deep Lake Unit was open during archery season. Within the Stairsteps Unit the area east of Sig Walker Strand and south of Loop Road was closed to public access from 1 September- 13 November due to adverse effects of Hurricane Andrew.

This year, the opening date (Nov. 14) of the General Gun hunt on BCNP was two days earlier than the previous year and two weeks after the opening date (Oct. 31) in the South zone of the statewide framework. The closing date for General Gun season on the BCNP (Jan. 1) was the same as last year and nine days earlier

than the statewide South zone (Jan. 10). General Gun season on the BCNP was reduced from 58 to 46 days during 1990-91, but increased to 49 days in 1992-93. Archery (30 days) and Muzzleloader (16 days) seasons remained the same length as 1991-92.

Check station operations were similar to last year. Provisions were made to operate four check stations approximately 16 hours a day, 7 days a week through Muzzleloader and General Gun seasons. In addition to this coverage, Forty-Mile Bend (FMB) and Bear Island (BI) were operated full time during Archery season, while Dona Drive and Monroe Station were staffed on weekends. An unstaffed check station was also placed at the 31mm of Alligator Alley to accomodate users of Turner River Unit until access was eliminated prior to the last weekend of archery season (Oct. 4). When check stations were not staffed hunters could check in or out using forms and self deposit boxes at each of the 5 stations. Check station locations are shown on the map in Appendix A.

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 general hydrological conditions for BCNP in 1992. This map was generated during semi-annual wading bird surveys 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. The March 1992 survey showed wetter conditions in BCNP compared to March 1991, except for

some dry areas in Turner River Unit. Bear Island was considered drier in March 1992 than in March 1991. The August survey indicated conditions similar to last year which is a return to a more normal wet season hydrological pattern. Virtually the entire preserve was considered wet with a few small areas in the transitional stage.

Fires during 1992 burned 53,590 acres on the BCNP (Table 1). Prescribed fires accounted for 95% of this acreage, while human caused (accidental or arson) and natural fires accounted for 5% and <1% respectively. Prescribed burn acres increased over last year but were still below 1989 and 1990 levels. Better weather and hydrologic conditions were the primary reasons for the increase. An additional 1500 acres were burned in the Jetport area by GFC personnel. Burns were concentrated in dry prairies with attempts made to protect hammocks.

CENSUS DATA

Deer population surveys have been conducted since 1984. 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. Beginning in 1987, annual surveys were conducted in May-June of each year in an effort to standardize surveys within BCNP. Original census data are presented in Appendix B.

Bear Island

Deer track counts were conducted on Bear Island from 1977 to 1988 and have been summarized in previous reports (Manor et al. 1991). Because of wide variability in counts, poor condition of transects, and field observations it was concluded that track counts as traditionally conducted were not suitable for the Bear Island Unit. Spotlight counts were conducted in this unit in 1989 to determine the feasibility of this census method and have been continued through 1992 (Table 2).

In 1992 spotlight counts in western Bear Island resulted in population estimates of 490 deer (1 deer per 39 acres). Estimated deer density for eastern Bear Island was 1 deer per 73 acres. Population estimates from 1992 spotlight counts decreased by 13% in the western portion compared to 1991, but increased by 46% in the eastern portion. Deer harvest (50) in Bear Island during the 1992-93 season increased over the previous 3-year average (38).

Despite high variability among years, we recommend continued use of spotlight counts as the primary census method in Bear Island due to deteriorating condition of suitable tracking medium along track count transects in this unit. However, this survey technique needs further refinement to yield consistent estimates.

Corn Dance

Deer track counts have been conducted in the Corn Dance (CD) Unit since 1981 (Table 3). Ten permanent transects were established in 1985 (Fig. 2) and are remeasured each year to provide 1 mile of suitable tracking medium. Mean deer tracks per mile of transect have varied between 2.6 in 1985 and 3.9 in 1987 (Figure 3). In 1991, the number of deer tracks observed per mile of transect decreased slightly from the previous year (2.9 and 3.4 respectively). The population estimate for CD in 1991 was 1,253 deer or 1 deer per 227 acres (Table 3). Track counts were not conducted in 1992 due to a project shift by research staff. Future counts will be conducted by management personnel on an annual or bi-annual basis. Corn Dance deer harvest decreased by 48% from the 1991-92 season, while hunter success decreased by 52%.

Turner River

Deer track count surveys in Turner River Unit have been conducted along a buggy trail in the Mullet Slough area since 1988. Mean number of deer tracks observed per mile of suitable tracking medium was 16.7 in 1992, an increase over 8.0 tracks/mile in 1991. In 1992 the Mullet Slough portion of Turner River Unit had a population estimate of 269 deer or a density of 1 deer per 119 acres (Table 4). This represents a 86% increase over the 1991 population estimate of 145 deer or 1 deer per 221 acres. Turner River deer harvest increased from 50 deer in 1991-92 to 54 in 1992-93. Hunter success (0.022) was similar to the 1991-92 season.

Stairsteps

Deer surveys have been conducted in the Stairsteps Unit since 1978. Some track count surveys were conducted in the western portion of the unit while aerial surveys were the type most frequently conducted in the eastern portion (Table 5). The eastern portion of Stairsteps is largely open Everglades marsh adjacent to Shark Slough. This portion of Stairsteps comprises approximately 50,000 acres. Prior to 1985-86 aerial surveys were flown on north-south transects at 2 mile intervals. In 1985, 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 2 kilometer intervals with the survey area divided into 2-kilometer square cells. This technique provides an opportunity to estimate both density and distribution (Fleming 1984). Figure 4 shows the eastern Stairsteps survey area.

The 1992 annual Stairsteps survey yields deer densities ranging from 1 deer per 138 acres to 1 deer per 1586 acres. Deer population estimates were the lowest since 1987 (Figure 5). The 1992 aerial deer counts varied greatly despite

being conducted on consecutive days. There was a slight increase (8%) in the Stairsteps deer harvest from 87 in 1991-92 to 94 in 1992-93 despite major portions of the area being closed during archery and muzzleloading seasons due to effects of Hurricane Andrew. Airboat access into eastern Stairsteps was greatly enhanced by favorable water levels during 1991-92 and 1992-93 compared to the 1990-91 season.

HUNTING

Deer and wild hog may be taken during all big game seasons. Since the 1986-87 season, only deer with a minimum antler length of 5 inches were legal game. Wild hogs with a minimum shoulder height of 15 inches were also legal game. Hunting pressure on BCNP was estimated at 16,534 man-days for Archery, Muzzleloading and General Gun seasons (Table 6). This estimate of pressure was 3% less than the estimate of 17,083 man-days recorded last year, which may be attributed to effects from Hurricane Andrew. Deer harvest (226) was a new record eclipsing the record of 216 in 1991-92. Hog harvest was 29% less than last year (181 vs. 254) and returned to a more moderate level.

Hunter success (game checked/man-day) decreased slightly (from 0.028 to 0.025) but remained higher than the average of 0.018 (Table 6). Hunter success rate has remained fairly stable (0.015-0.016) except for the 1987-88 season (0.020) and the last 3 years which displayed the highest rates of success. The mandatory check of hunters has not directly impacted these calculations because that information was not utilized in estimating man-days of hunting. Hunting pressure was calculated by comparing Saturday vehicle counts with base year surveys. An indirect but potentially significant impact of mandatory check-out is increased compliance with rules requiring that deer and hogs be checked.

Hunter activity and checked harvest has been documented for the last thirteen years (Figure 6). Hunter pressure appears cyclical with rising pressure from 1980-1984 followed by a dramatic decrease in 1985. Pressure increased through 1988-89 and was followed by a precipitous decline in 1990-91 then an increase in 1991-92 with a slight decline in 1992-93. Dramatic changes in hunter pressure are due in part to major regulatory changes on BCNP. Deer harvest has fluctuated, but has remained fairly stable since the 1987-88 season with a record harvest being reached this year. Hog harvest has fluctuated with a gradual increase over the past 6 years which culminated in a record harvest last year with a decline to a more moderate level this season. Historically, declines in harvest of one species have often been offset by increases in harvest for the other species.

Deer and hog harvest by season compared to the previous 2-year averages are shown in Table 7. The 1992-93 Archery season deer and hog harvest approximated trends over the past 2 years. During Muzzleloading season both deer and hog harvest were less than the prior 2-year average. Hunter success ratios for hogs were less than the prior 2-year average for each season. General gun deer harvest was greater than the prior 2-year average but hog harvest was less. Hunter success during archery and general gun for deer was greater than the prior 2-year average but less during muzzleloading.

Harvest and hunter pressure are compared by unit and season (Table 8). Generally, trends for individual units follow overall trends already discussed. Deer harvest increased in the Bear Island, Stairsteps and Turner River Units. Corn Dance and Loop Units experienced a decline in number of deer harvested. No deer were harvested from Deep Lake Unit for the second consecutive year. Hog harvest was reduced in each unit compared to last season. No hogs were taken in

Deep Lake Unit for the third consecutive year. Deep Lake Unit was closed during Muzzleloading season and was restricted to archery only hunting during General Gun season with vehicle use prohibited.

Hunting pressure increased by <10% on Bear Island, Corn Dance and Turner River Units, but was lower overall than the 1991-92 season. Pressure continued to increase on the popular Bear Island Unit after 2 years of decreasing use, despite restricted access to Turner River Road from Alligator Alley. In general, length of the hunting season and the large land area have created low hunter densities on BCNP. Normally there are between 50 - 500 hunters daily on the entire BCNP, resulting in a hunter density of 450 - 4,600 ha per hunter (Schortemeyer et al. 1991).

Archery Season

Archery season was open September 5 through October 4. This was the third year of the 30 day season length. During Archery deer harvest (10) was 25% greater than the prior 2-year average but equaled the 1991-92 harvest (Table 9). Deer harvest (50%) was concentrated in the first 2 days of the season. Hog harvest (15) during archery was 19% less than the prior 2-year average. Bear Island accounted for 90% of the deer harvested, while Turner River Unit accounted for 60% of the hogs taken during archery season (Table 8). Hunting pressure (1495 man-days) was 15% less than the prior 2-year average. Bear Island was the most popular unit during archery season bearing 45% of the total pressure. Pressure increased in the Bear Island, Corn Dance, and Deep Lake Units but decreased in others over last year. That portion of the Stairsteps Unit east of Sig Walker Strand and South of Loop Road was closed to public access during archery season.

Muzzleloading Season

For the eighth year Muzzleloading season was 16 days long (October 10 through October 25). Muzzleloading season deer harvest (34) was similar to last year (37) but hog harvest (24) was 52% less than the prior 2-year average (Table 10). Eighty-eight percent of the deer harvest occurred within the first 9 days of the season. Bear Island accounted for 44% of the deer harvested, while 79% of the hogs harvested came from Turner River Unit. Hunting pressure increased by 14% when compared to the prior 2-year average. Pressure increased on Bear Island (3%) and Turner River (22%) Units but decreased in all others, except Corn Dance which remained unchanged, compared to the 1991-92 season (Table 8). Deep lake Unit and the Stairsteps Unit east of Sig Walker Strand and south of Loop Road were closed.

General Gun Season

The 1992-93 General Gun season was 49 days (November 14 through January 1). Hunter activity and harvest during the General Gun season are summarized in Table 11. Hunter activity was estimated at 12,954 man-days, a slight increase (7%) over the prior 2-year average. Deer harvest (182) was 18% greater than the prior 2-year average while hog harvest (142) was 5% less. Stairsteps Unit accounted for 51% of the deer and 49% of the hogs harvested during general gun (Table 8). Turner River Unit accounted for 23% of the deer harvested.

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 1992 was calculated by multiplying the

1984 hunter activity (base year) estimate by the ratio of the 1992 vehicle survey to the 1984 vehicle survey (base year). Results of vehicle surveys are summarized in Appendix C. Although vehicle surveys do not directly measure hunter pressure they do provide a good index and therefore the trends over the past 9 years can be analyzed.

Hunting pressure by week of General Gun season over the past 9 years (with the exception of 1988-89) is shown in Figure 7. In general, use is highest during the first 9 days followed by Thanksgiving week. 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 2 weeks. Levels presented for the first week are actually for the first 2 days only (opening weekend). Remaining weeks cover a full 7-day period, except for 1990-91, 1991-92 and 1992-93 in which week eight is only 2, 3 and 5 days long respectively.

In 1992-93 hunting pressure was less in each of the first three weeks compared to 1991-92, but was greater in each of the remaining weeks (Figure 7).

Use estimates derived from mandatory check-in and check-out will be presented in a separate report. However, preliminary results from 1992-93 indicate that estimates of hunter pressure based on vehicle surveys are comparable to direct measurements from mandatory hunter check-in/out forms. Three methods are utilized in calculating hunter pressure from mandatory check-in and check-out cards: Calendar Days, Calendar Days with Daylight, and Man-days. Each day is counted as a "Calendar Day" of hunting pressure beginning with the day a hunter checked-in through the eventual date of departure from the management area (checked-out). This would be the most liberal estimate of hunting pressure since obvious non-hunting opportunities (such as late Friday night check-ins) would be counted. "Calendar Day Of Daylight" estimates attempt to address this deficiency

and are similar to the Calendar Day computation except that a hunter checking-in with less than 2 hours of hunting daylight (1.5 hours before sunset) or hunting excursions of less than 1 hour will not be credited as hunting for that particular day. It is assumed that the hunter is setting up camp or in the latter case will not have enough time to hunt due to travel time. "Man-day" estimates from hunter check-in/out cards credit a hunter with a man-day of hunting pressure depending on how many hours elapsed between check-in and check-out. If over 50% of the huntable daylight hours were spent in the field then the hunter receives a whole man-day of pressure, otherwise a half man-day. This is the most conservative estimate of pressure and more closely resembles actual hunting activity. None of these methods evaluate noncompliance with the mandatory check-in rule. In 1992-93, the estimate of total hunter pressure (Archery through General Gun) based on vehicle count surveys (16,534 man-days) was greater than the Man-day estimate from check-in cards (15,002 man-days), similar to Calendar Day with Daylight (16,969 man-days) but lower than Calendar Day (18,293 man-days) estimates. During General Gun season the total vehicle count estimate (12,954 man-days) was similar to the estimate based on Calendar Day with Daylight (12,479), greater than the Man-day estimate (11,209) and less than the Calendar Day estimate (13,470). Hunter pressure calculated from vehicle counts tended to be less than direct measurements from check-in cards for Archery and Muzzleloading seasons but greater than General Gun estimates. Overall, Saturday vehicle counts were reasonable estimates of hunter pressure when compared to estimates from mandatory check-in and check-out.

WHITE-TAILED DEER BIOLOGICAL DATA

Herd Composition

Sex ratios were determined from 357 and 370 spotlight observations made in Corn Dance and Bear Island Units, respectively (1984-90). Sex ratios of adult deer in Corn Dance and Bear Island Units are 1:3.6 and 1:2.3 (buck:doe), respectively.

Harvested deer were aged by tooth wear and eruption when possible (Severinghaus 1949). In 1992-93 no deer were harvested in the fawn age class. The 1.5 year age class constituted 20.4% of the harvest, while the 2.5 year age class accounted for 22.8% (Table 12). Percentage of harvested deer greater than 3.5 years old (56.8%) increased dramatically over last year (35.7%) and is the highest percentage ever recorded on BCNP. Harvest in the 4.5 (9.9%) and 5.5+ (12.3%) age classes increased compared to last year (6.7% and 4.2%, respectively). Initial response (1986) to the 5-inch minimum antler requirement was a reduction in the total number of bucks harvested and elimination of the fawn age class from the checked harvest. In subsequent years (1987-1992), older bucks have increased in the harvest while yearlings (1.5 year-olds) have been substantially reduced. As predicted under the 5-inch minimum antler regulation, age structure has shifted to older age classes for harvested bucks on BCNP.

Deer age structure by unit of harvest is shown in Table 12. Bear Island Unit had the highest portion (36.7%) in the 1.5 year age class. Turner River Unit had the highest percentage of deer (43.4%) in the 2.5 year age class, while Corn Dance and Stairsteps Units had the highest portion (81.8% and 64.2% respectively) in age classes greater than 2.5. Overall, age structure data indicated moderate recruitment in recent years. Field observations, surveys, and documented harvest have indicated fluctuating recruitment rates over the past 5

years. Recruitment rate may be affected by spring water levels, with high water levels potentially increasing fawn mortality.

Physical Characteristics

Antler characteristics and dressed weight by age class and unit of harvest are shown in Table 13. Overall, values in 1992-93 are similar to those reported since implementation of the 5-inch antler rule (1986-87). Average dressed weight of all animals ranged from 73 pounds in 1989 to 67 pounds in 1986 and was measured at 71 pounds in 1992. Antler circumference at 6.1 cm in 1992 fell within the range set in previous years (5.6-6.4 cm). In 1992, antler length (22.5 cm) fell within the range set in previous years (18.8-23.3 cm). Average number of points per deer (4.4) was less than last years high of 5.1. Occurrence of spikes by age class and unit of harvest is shown in Table 14. In 1991-93 overall percent spikes by age class was less in the 1.5 year class (62% vs. 67%) and 3.5 year class (14% vs. 15%) than 1991-92. Thirty-two harvested deer were spikes in 1992 which was less than 1991 (33), but the percentage of spikes in the total harvest (34%) was greater in 1992-93 than 1991-92 (31%).

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 1145 of the 1711 hogs checked over the past 10 years.

Average gutted weights, lengths, and shoulder heights for hogs harvested during the last 10 years are shown in Table 15. Average weight, length and shoulder height were all less than the previous year and the lowest since data

were collected. Average dressed weight was 18% less than last year, and 12% less than the 10-year average of 73. High water levels and a probable harvest shift to younger animals may explain the decrease in average physical measurements.

Measured physical characteristics of male hogs harvested were greater than those of females in 1992-93 (Table 16). Males outweighed females by 22% or 15 pounds (84 pounds vs. 69 pounds). Average body length of males was 6% greater than females (124 cm vs. 117 cm) while shoulder height was 10% greater (68 cm vs 62 cm). These differences are similar to those observed over the prior 9 years.

In general, Bear Island appears to be better habitat for wild hogs compared to Stairsteps Unit (Table 17). In the 1992-93 harvest, hogs in Bear Island weighed 33 pounds more than hogs taken from Stairsteps (Avg. Dressed Weight). In addition, 1992-93 average body length and shoulder height were greater in Bear Island compared to Stairsteps. Average dressed weight, antler beam length and circumference, and number of points for male deer are greater in Bear Island than in Stairsteps Unit (Table 13). Differences between the 2 areas indicate that both spatial and temporal habitat differences tend to affect deer and hog similarly.

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Table 1. Number of acres burned in Big Cypress National Preserve, 1979-1992.

Year	Total Acres	Human Caused	Prescribed	Natural
1979	24,147	21,482	2,642	23
1980	27,717	20,052	7,440	225
1981	217,378	215,037	1,683	658
1982	49,218	44,691	4,527	0
1983	11,474	1,297	9,950	227
1984	23,064	4,013	17,713	1,338
1985	16,595	2,510	8,729	5,356
1986	51,443	32,718	18,355	370
1987	27,998	3,775	21,767	2,456
1988	40,866	23,751	17,031	84
1989	58,080	17,051	40,386	643
1990	73,058	9,913	62,950	645
1991	40,552	1,631	37,993	928
1992	53,590	2,865	50,689	36
TOTALS	715,180	400,786	301,855	12,989
AVG./YR.	51,084	28,628	21,561	928

(Unpublished data from BCNP, March 1993)

Table 2. Population estimates for white-tailed deer on the Big Cypress National Preserve based on spotlight counts, 1966-1992.

Time of Survey	Source	Unit	Number of Surveys	Deer Count High/Average	Calculated Size of Survey Area (acres)	Population Estimate	Density (deer/acre)
1992 Annual	Schortemeyer & Bozzo June 1992	Western Bear Island	2	14/14	19,129	490	1:39
1992 Annual	Schortemeyer & Bozzo June 1992	Eastern Bear Island	3	16/7.3	19,129	262	1:73
1991 Annual	Schortemeyer Manor & Bozzo July 1991	Western Bear Island	3	16/7.7	19,129	736 563	1:26 (a) 1:34 (b)
1991 Annual	Schortemeyer Manor & Bozzo July 1991	Eastern Bear Island	3	11/5.7	19,129	160	1:106
1990 Annual	Schortemeyer & Manor June 1990	Western Bear Island	5	4/2.4	19,129	140	1:137
1990 Annual	Schortemeyer & Manor June 1990	Eastern Bear Island	4	2/1.3	19,129	33	1:564
1969 Annual	McGrady, Manor & Schortemeyer May 1969	Western Bear Island	3	24/11.3	19,129	663	1:26
1969 Annual	McGrady, Manor & Schortemeyer June 1969	Eastern Bear Island	2	11/7	19,129	266	1:72
1966 Annual	McGrady April 1966	Deep Lake	1	6/6	46,356	376	1:126

(a) 3.1 mile transect

(b) 5.0 mile transect

Table 3. Population estimates for white-tailed deer in the Corn Dance Unit of the BCNP, 1980-91.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer/acre)
1991 Annual	Track Counts	McCown 1991	283,791	1253	1:227
1990 Annual	Track Counts	McCown 1990	283,791	1500	1:189
1989 Annual	Track Counts	McCown 1989	283,791	1215	1:234
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
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 4. Population estimates for white-tailed deer in the Turner River unit (Mullet Slough) of the BNCP, 1988-1992.

Time of Survey	Method	Source	Calculated Size of Survey Area (acres)	Population Estimate	Density (deer:acre)
1992 Annual	Track Counts	Bozzo May 1992 (d)	32,000	269	1:119
1991 Annual	Track Counts	Schortemeyer, Manor & Bozzo May 1991 (c)	32,000	145	1:221
1990 Annual	Track Counts	Schortemeyer & Manor May 1990 (b)	32,000	345	1:93
1989 Annual	Track Counts	McGrady & Manor May 1989 (b)	32,000	300	1:107
1988 Annual	Track Counts	McGrady April 1988 (a)	32,000	58	1:549

-
- a) Track counts conducted off Cypress Lane, two replications.
b) Track counts conducted off Cypress Lane, three replications.
c) Track counts conducted off Cypress Lane, three replications.
d) Track counts conducted off Cypress Lane, three replications.

Table 5. Population estimates for white-tailed deer in the Stairsteps unit (eastern portion) of the BCNP, 1977-92.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1992 Annual June (1 of 2)	SRF Aerial Counts	Schortemeyer and Bozzo	50,000	145-362	1:345-138
1992 Annual June (2 of 2)	SRF Aerial Counts	Schortemeyer and Bozzo	50,000	32-79	1:1586-636
1991 Annual June (1 of 2)	SRF Aerial Counts	Manor and Bozzo	50,000	280-560	1:180-90
1991 Annual June (2 of 2)	SRF Aerial Counts	Manor and Bozzo	50,000	280-560	1:180-90
1990 Annual	SRF Aerial Counts	Schortemeyer and Manor	50,000	200-442	1:227-113
1989 Annual	SRF Aerial Counts	Schortemeyer and McGrady	50,000	602-1220	1:83-41
1988 Annual	SRF Aerial Counts	Schortemeyer and McGrady	50,000	485-960	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
			20		

Table 5. continued

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
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 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
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	1:126
1977-78 Post-hunt	Track Counts	Bowman, memo, 9 June 1978	140,600	743	1:190

Table 6. Big Cypress National Preserve deer harvest, hog harvest and hunting pressure, 1980-93.

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
1989-90	21,660	186	154	0.016
1990-91	14,340	182	180	0.025
1991-92	17,083	216	254	0.028
1992-93	16,534	226	181	0.025

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

Table 7. Big Cypress National Preserve deer and hog harvest, and hunter success ratio by season.

SEASON	DEER			
	No. Harvested		Hunter Succ. Ratio (a)	
	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.
Archery	10	8.0	0.007	0.005
Muzzleloader	34	37.0	0.016	0.020
General Gun	182	154.0	0.014	0.013
HOG				
Archery	15	18.5	0.010	0.011
Muzzleloader	24	49.0	0.012	0.027
General Gun	142	149.5	0.011	0.012

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

Table 8. Three-year comparison of documented deer and hog harvest, and hunter pressure on the Big Cypress National Preserve.

	DEER			HOG			HUNTER PRESSURE		
	90-91	91-92	92-93	90-91	91-92	92-93	90-91	91-92	92-93
<u>ARCHERY</u>									
Bear Island	2	6	9	9	12	4	565	595	675
Deep Lake	-	-	0	-	-	0	-	-	10
Corn Dance	0	2	0	0	1	0	245	195	260
Turner River	1	0	1	1	5	9	350	445	285
Stairsteps	1	0	0	1	1	0	365	440	205
Loop	2	2	0	2	5	2	135	170	60
Total	6	10	10	13	24	15	1660	1845	1495
<u>MUZZLELOADING</u>									
Bear Island	9	9	15	17	20	2	540	570	590
Deep Lake	-	-	-	-	-	-	-	-	-
Corn Dance	6	7	1	0	6	0	265	265	265
Turner River	7	9	11	6	20	19	265	570	735
Stairsteps	8	8	2	3	10	0	405	480	395
Loop	7	4	5	7	9	3	150	145	100
Total	37	37	34	33	65	24	1625	2030	2085
<u>GENERAL GUN</u>									
Bear Island	28	23	26	57	26	22	2520	2538	2571
Deep Lake	1	0	0	0	0	0	80	108	89
Corn Dance	22	14	11	12	18	8	1495	1591	1689
Turner River	26	41	42	21	43	32	3775	4044	4107
Stairsteps	46	79	92	30	67	69	2345	4078	3880
Loop	16	12	11	14	11	11	840	849	618
Total	139	169	182	134	165	142	11055	13208	12954
<u>COMBINED</u>									
Bear Island	39	38	50	83	58	28	3625	3703	3836
Deep Lake	1	0	0	0	0	0	80	108	99
Corn Dance	28	23	12	12	25	8	2005	2051	2214
Turner River	34	50	54	28	68	60	4390	5059	5127
Stairsteps	55	87	94	34	78	69	3115	4998	4480
Loop	25	18	16	23	25	16	1125	1164	778
Total	182	216	226	180	254	181	14340	17083	16534

Table 9. Archery season harvest summary Big Cypress National Preserve,
1992-93.

WEEK 1992-93 dates	DEER		HOG		HUNTER ACTIVITY (man-days)	
	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.
1 (9-5 to 9-6)	5	1.5	6	6.0	410	578
2 (9-7 to 9-13)	3	3.0	3	4.5	310	393
3 (9-14 to 9-20)	1	1.0	0	4.0	305	325
4 (9-21 to 9-27)	1	1.0	2	2.0	270	243
5 (9-28 to 10-4)	0	1.5	4	2.0	200	215
TOTAL	10	8.0	15	18.5	1495	1754

Table 10. Muzzleloader season harvest summary Big Cypress National Preserve,
1992-93.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1992-93 dates	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.
1 (10-10 to 10-11)	15	9.0	8	15.5	840	810
2 (10-12 to 10-18)	11	20.0	13	24.0	745	565
3 (10-19 to 10-25)	8	8.0	3	10.5	500	453
TOTAL	34	37.0	24	50.0	2085	1828

Table 11. General Gun season harvest summary, Big Cypress National Preserve, 1992-93.

WEEK		DEER		HOG		HUNTER ACTIVITY (man-days)	
1992-93 dates		1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.	1992-93	Prior 2 yr. avg.
1	(11-14 to 11-15)	40	32.0	33	31.0	1895	2140
2	(11-16 to 11-22)	51	48.5	32	40.5	1975	2568
3	(11-23 to 11-29)	32	17.0	16	17.0	1985	1370
4	(11-30 to 12-06)	18	16.0	21	21.0	1650	1336
5	(12-7 to 12-13)	12	16.0	12	13.0	1420	1360
6	(12-14 to 12-20)	16	8.5	6	14.0	1210	1092
7	(12-21 to 12-27)	9	12.5	15	9.0	1950	1622
8	(12-28 to 01-01)	4	3.5	7	4.0	869	626
TOTAL		182	154.0	142	149.5	12954	12134

Table 12. Age structure of male white-tailed deer harvested on the Big Cypress National Preserve by unit of harvest, 1992-93.

AGE CLASS	BEAR ISLAND		TURNER RIVER		LOOP		STAIRSTEPS		CORN DANCE		ALL UNITS COMBINED	
	#	%	#	%	#	%	#	%	#	%	#	%
1.5	12	38.7	6	26.1	2	12.5	12	14.8	1	9.1	33	20.4
2.5	5	16.1	10	43.4	4	25.0	17	21.0	1	9.1	37	22.8
3.5	6	19.4	5	21.7	2	12.5	38	46.9	5	45.5	56	34.6
4.5	3	9.7	1	4.4	3	18.8	8	9.9	1	9.1	16	9.9
5.5+	5	16.1	1	4.3	5	31.2	6	7.4	3	27.2	20	12.3
Sample Size	31		23		16		81		11		162	

Table 13. Weight and antler characteristics of male deer harvested during 1992-93, Big Cypress National Preserve.

AGE CLASS	I ^a	SAMPLE SIZE BY UNIT					AVERAGE DRESSED WEIGHT (LBS.)					
		III	IV	V	VI	ALL	I	III	IV	V	VI	ALL
1.5	7	0	2	7	0	16	69	-	68	58	-	64
2.5	4	5	3	12	1	25	70	74	55	61	75	65
3.5	4	2	2	21	4	33	82	80	75	74	75	72
4.5	2	0	3	5	1	11	95	-	80	79	96	84
5.5+	1	0	4	4	1	10	102	-	80	86	90	85
TOTAL	18	7	14	49	7	95	77	76	72	67	80	71

AGE CLASS	AVERAGE ANTLER MAIN BEAM CIRCUMFERENCE (cm)						AVERAGE ANTLER MAIN BEAM LENGTH (cm)					
	I	III	IV	V	VI	ALL	I	III	IV	V	VI	ALL
1.5	4.8	4.9	6.5	4.6	5.5	4.9	12.9	16.5	19.6	12.1	17.5	13.9
2.5	5.8	6.1	5.2	5.1	5.5	5.4	22.6	23.1	16.4	19.4	14.5	19.9
3.5	7.2	7.6	6.8	5.9	6.1	6.3	27.4	29.7	25.9	21.9	22.4	23.3
4.5	6.7	7.1	7.3	6.5	7.0	7.2	36.2	31.0	28.2	24.9	29.0	28.4
5.5+	8.9	-	8.8	8.5	8.3	8.6	39.0	35.0	33.9	33.6	34.8	35.2
TOTAL	6.4	6.2	7.0	5.8	6.6	6.1	23.2	23.5	25.4	21.0	25.2	22.5

AGE CLASS	AVERAGE NUMBER OF POINTS					
	I	III	IV	V	VI	ALL
1.5	3.7	3.5	5.5	3.2	6.0	3.3
2.5	4.3	4.2	4.0	3.4	2.0	3.1
3.5	6.8	5.8	5.5	5.0	4.0	4.9
4.5	7.3	7.0	7.0	5.7	6.0	6.1
5.5+	7.0	-	7.8	6.0	7.7	5.7
TOTAL	5.1	4.6	6.0	4.6	5.2	4.4

^aUnits: I = Bear Island, III = Turner River, IV = Loop, V = Stairsteps, VI = Corn Dance

Table 14. Number of spikes, percent spikes and average main beam length of adult deer harvested on the Big Cypress National Preserve, 1992-93.

AGE CLASS	NUMBER OF SPIKES						% SPIKES IN AGE CLASS						MAIN BEAM LENGTH OF SPIKES (inches)			
	I(a)	III	IV	V	VI	ALL	I	III	IV	V	VI	ALL	0-1	1-3	3-5	>5
1.5	6	3	0	6	0	15	50.0	50.0	-	60.0	-	62.5	-	2	3	10
2.5	1	2	1	5	1	10	25.0	40.0	25.0	31.3	100.0	34.5	-	-	2	8
3.5	-	-	0	5	2	7	-	-	-	14.3	40.0	13.5	-	-	1	6
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(a) Units: I = Bear Island, III = Turner River, IV = Loop, V = Stairsteps, VI = Corn Dance.

Table 15. Physical characteristics of wild hogs harvested on the Big Cypress National Preserve, 1983-93.

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	106	83(20-238)	120(68-158)	63(22-85)
1989-90	110	66(25-180)	117(85-171)	61(45-87)
1990-91	134	77(25-165)	118(71-160)	63(18-90)
1991-92	158	78(25-235)	120(47-170)	64(27-90)
1992-93	147	64(15-182)	104(59-159)	57(34-89)

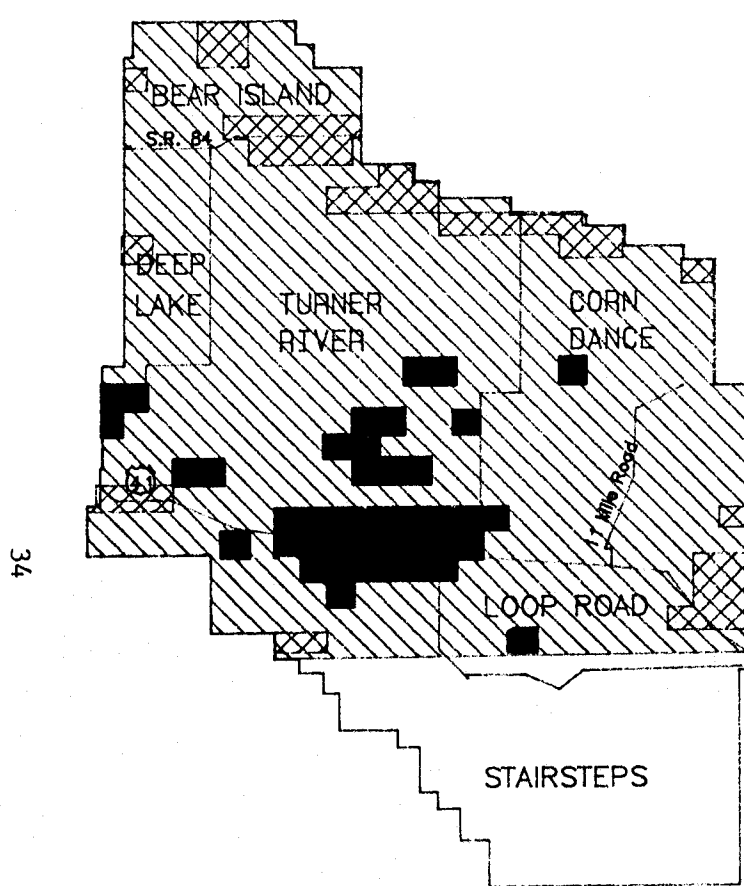
(a) Body length does not include tail

Table 16. Comparison by sex of physical characteristics of wild hogs harvested on Big Cypress National Preserve, 1983-93.

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)
1989-90	F	54	59(25-150)	115(85-171)	59(46-80)
	M	56	73(25-180)	118(88-162)	62(45-87)
1990-91	F	58	65(25-145)	114(71-139)	60(18-85)
	M	76	85(25-165)	122(84-160)	66(18-90)
1991-92	F	69	65(25-200)	114(79-147)	61(43-88)
	M	89	88(25-235)	124(47-170)	66(27-90)
1992-93	F	34	69(15-140)	117(59-149)	62(39-80)
	M	83	84(20-182)	124(79-159)	68(34-89)

Table 17. Comparison of wild hogs harvested on the Big Cypress National Preserve in the Stairsteps and Bear Island units, 1983-93.

YEAR	UNIT	SAMPLE SIZE	AVERAGE DRESSED WEIGHT (lbs.)	AVERAGE BODY LENGTH (cm.)	AVERAGE SHOULDER HEIGHT (cm.)
1983-84	Bear Island	70	77(24-198)	115 (47-170)	61(19-90)
		38	61(20-135)	110 (42-144)	55(24-72)
1984-85	Bear Island	49	74(20-350)	115 (81-164)	61(42-90)
		44	62(18-136)	113 (77-148)	59(40-82)
1985-86	Bear Island	21	92(50-155)	121(100-143)	68(59-90)
		23	55(18-145)	111 (76-141)	61(40-82)
1986-87	Bear Island	22	71(20-150)	113 (78-136)	65(36-88)
		31	80(30-155)	119 (78-155)	65(46-83)
1987-88	Bear Island	35	80(25-245)	118 (96-166)	69(48-98)
		39	60(16-151)	110 (75-140)	57(39-76)
1988-89	Bear Island	47	97(30-238)	122 (84-158)	69(47-85)
		37	73(32-150)	118 (90-153)	60(42-80)
1989-90	Bear Island	49	69(30-180)	118 (85-162)	62(47-87)
		31	67(25-160)	115 (88-147)	61(47-80)
1990-91	Bear Island	70	76(30-165)	116 (71-154)	64(22-88)
		22	69(25-140)	118 (86-142)	64(43-79)
1991-92	Bear Island	47	84(35-235)	122 (79-170)	67(46-90)
		50	79(26-155)	123 (80-147)	65(27-88)
1992-93	Bear Island	24	103(45-182)	130 (94-159)	71(34-88)
		49	70(20-145)	117 (79-150)	64(48-83)



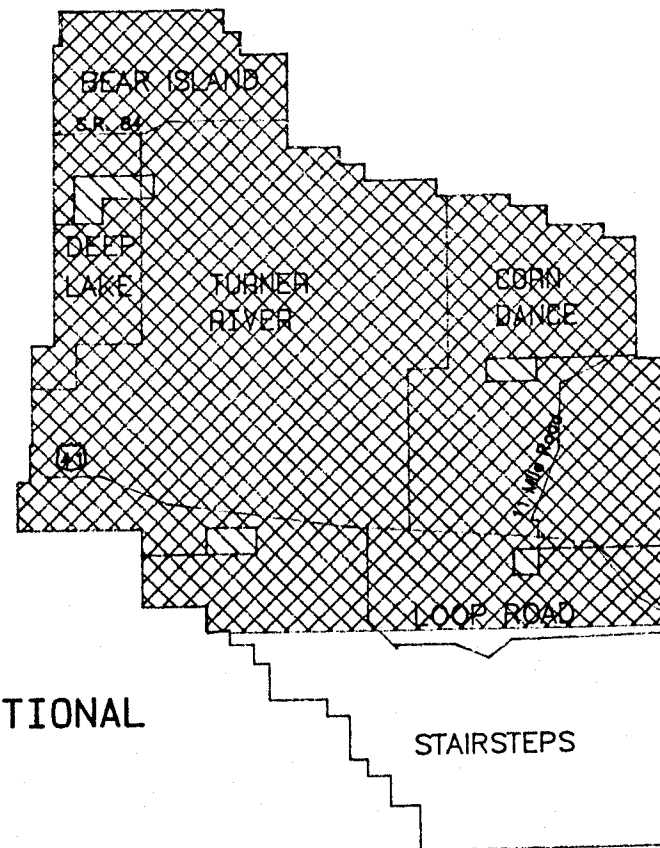
MARCH 16, 1992

BIG CYPRESS
NATIONAL
PRESERVE

WET
TRANSITIONAL
DRY

SCALE

0 10 Km



AUGUST 12, 1992

Figure 1. Comparison of dry and wet season hydropatterns on the Big Cypress National Preserve, 1992.

Citation

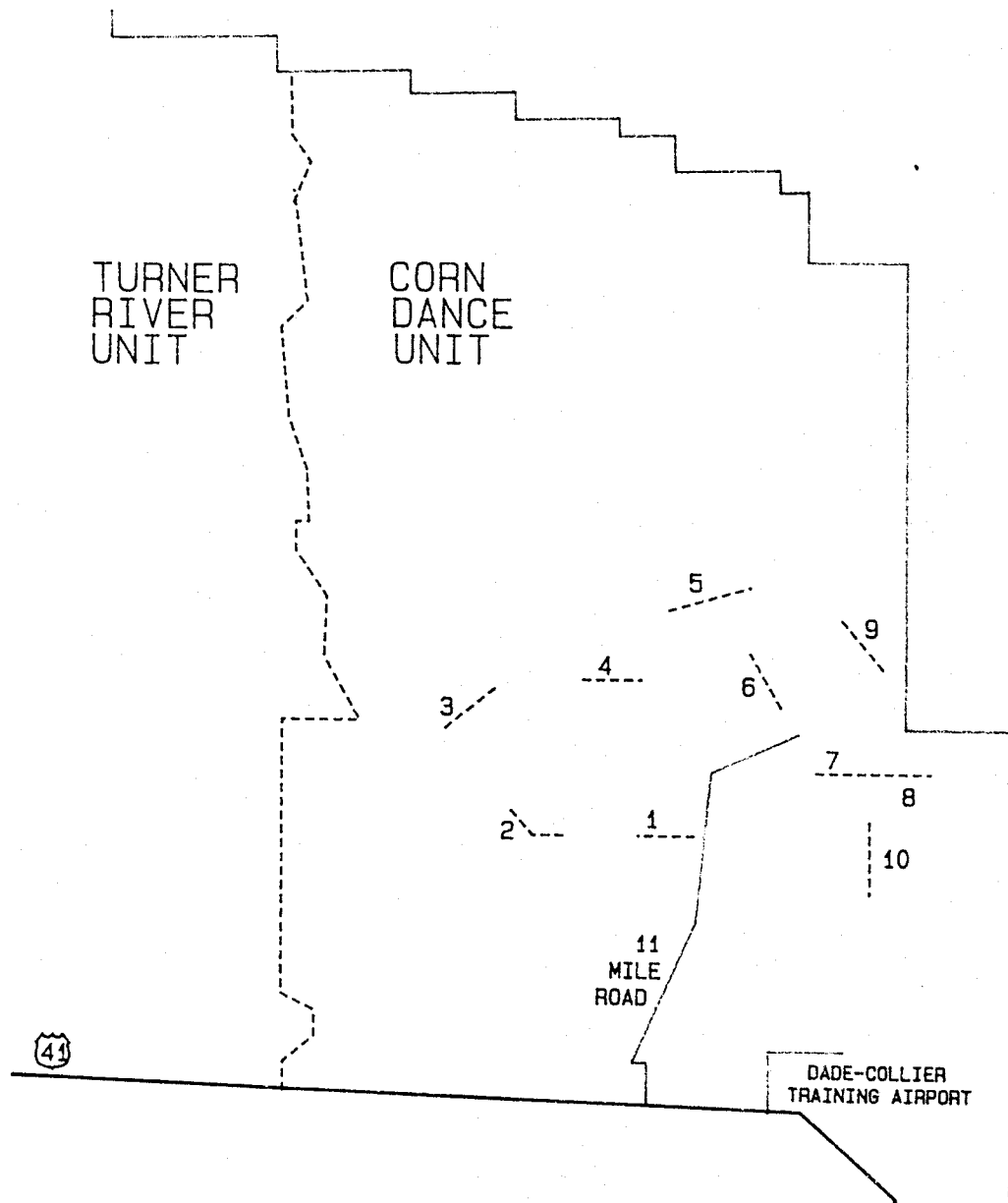


Figure 2. Deer track survey transects. Corn Dance Unit, Big Cypress National Preserve, 1985-1991.

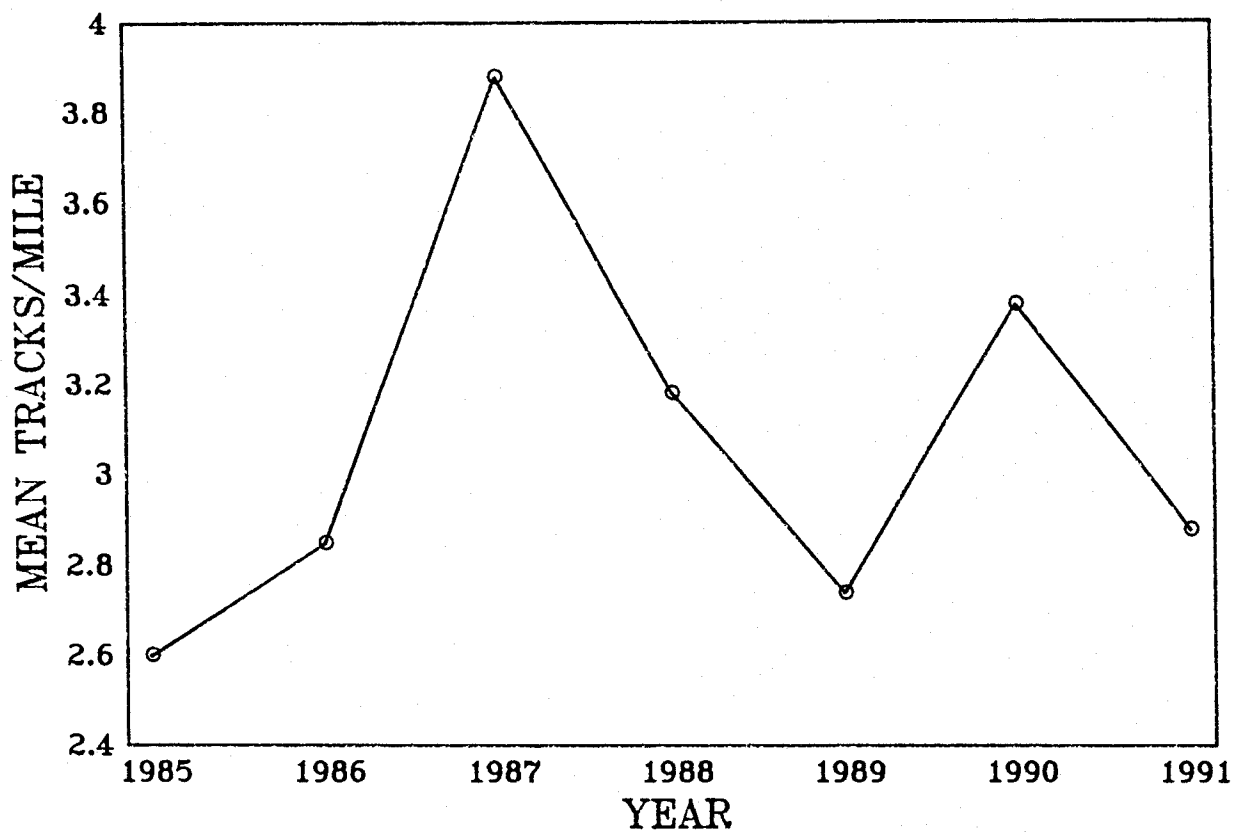


Figure 3. Mean number of deer tracks per one mile transect in the Corn Dance Unit, Big Cypress National Preserve, 1985-1991.

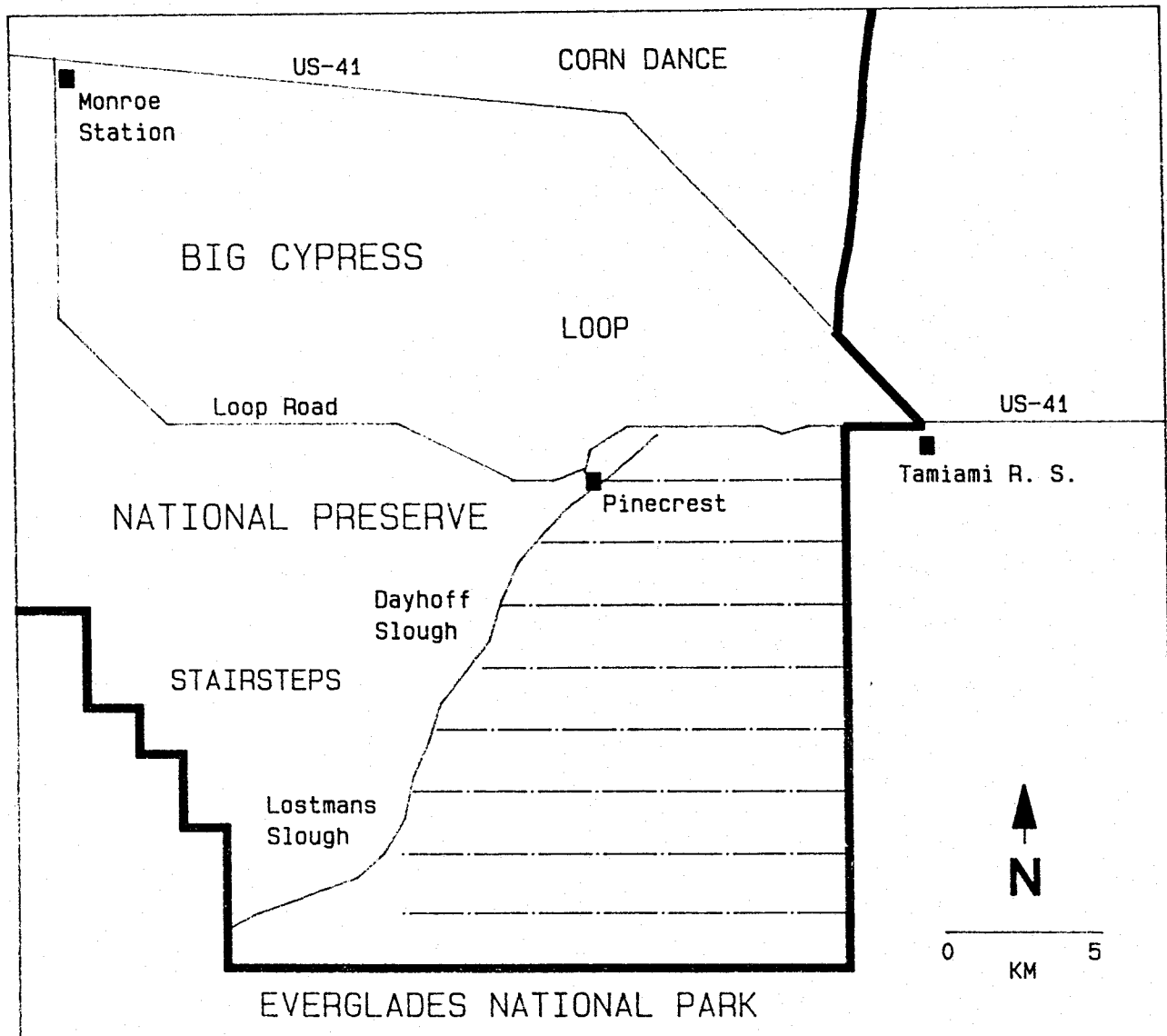


Figure 4. Survey transects and general survey area for aerial deer census, eastern Stairsteps Unit, BCNP, 1985-1992.

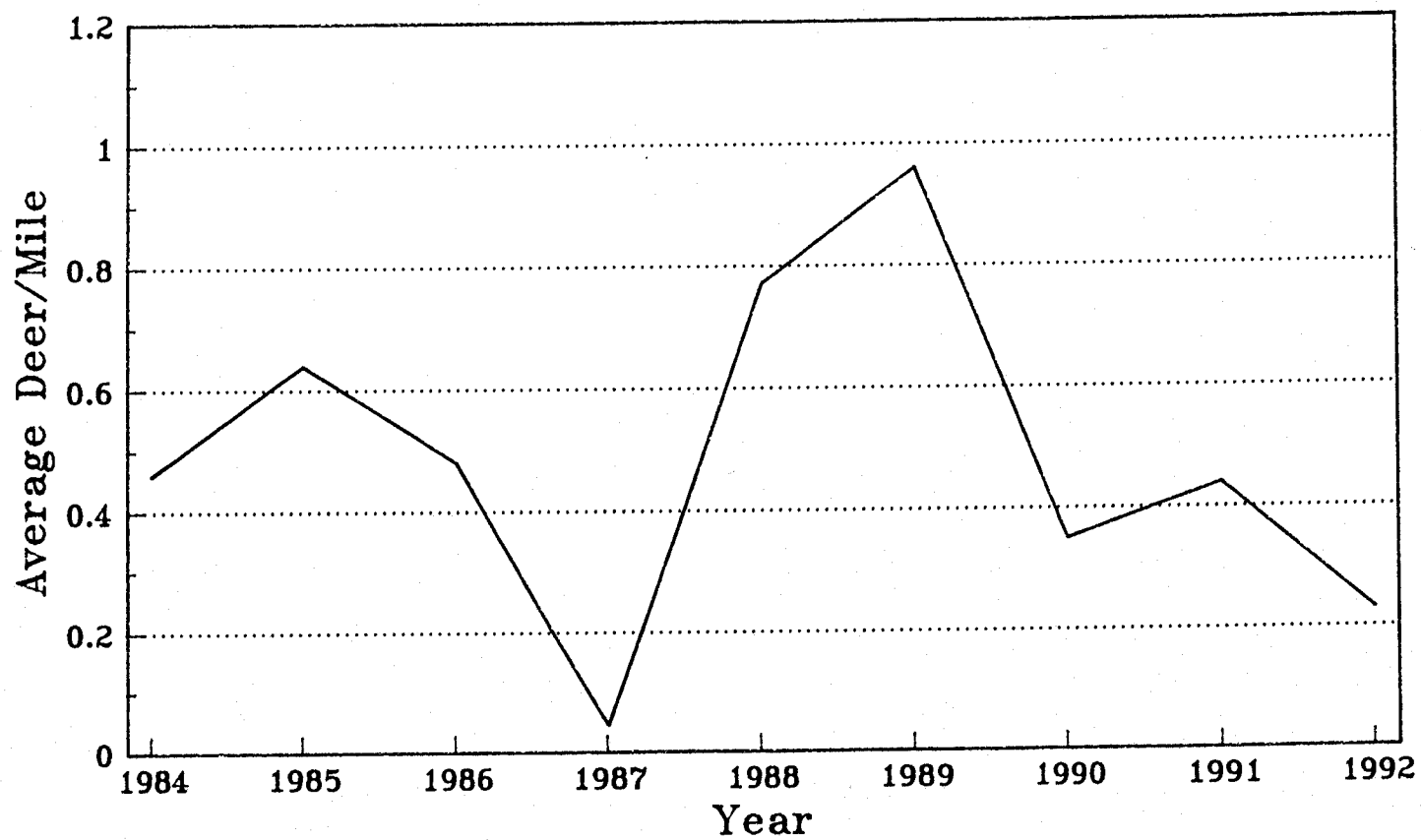


Figure 5. Average number of deer observed per mile in the eastern Stairsteps Unit, BCNP, 1984-1992.

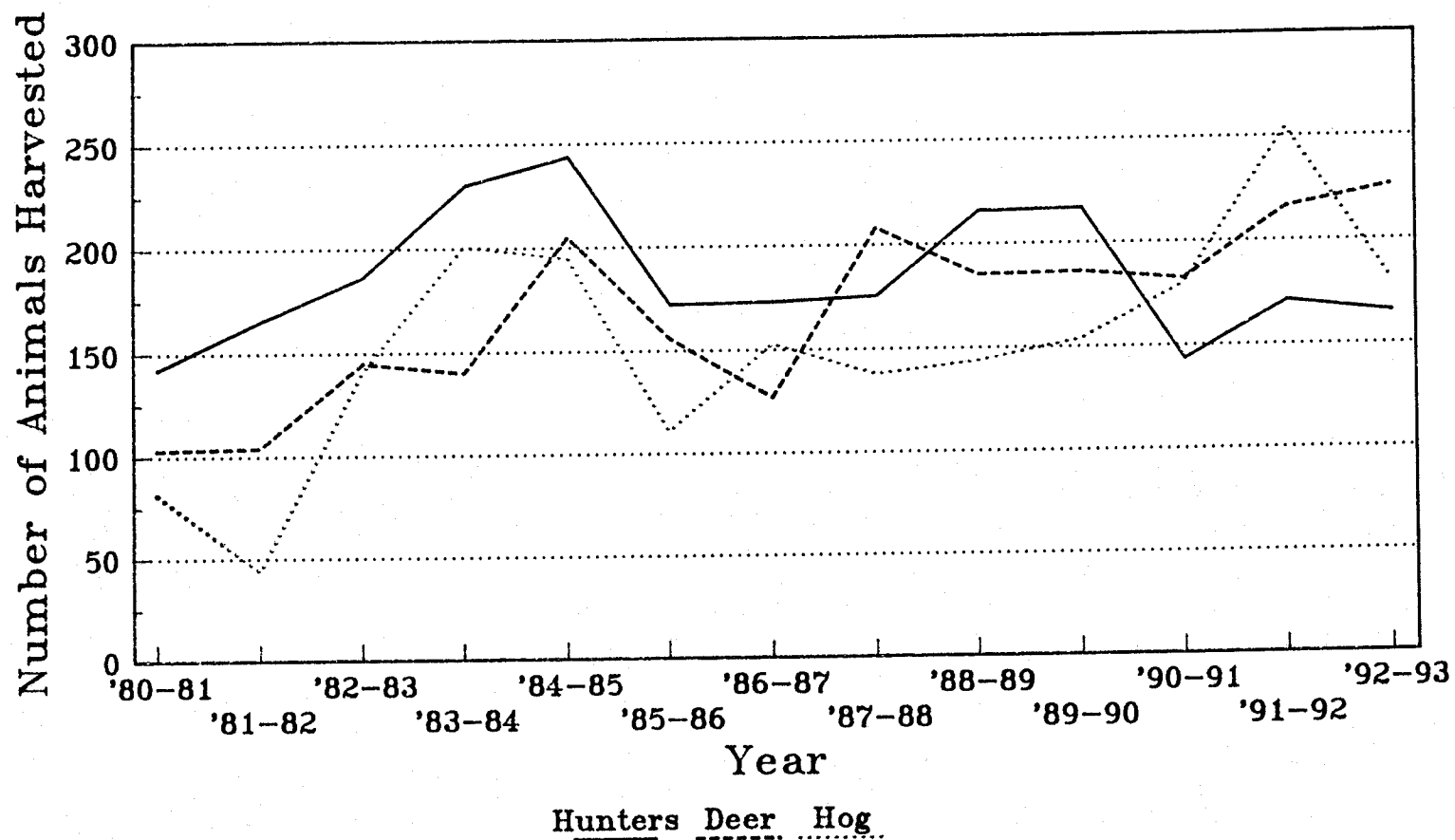
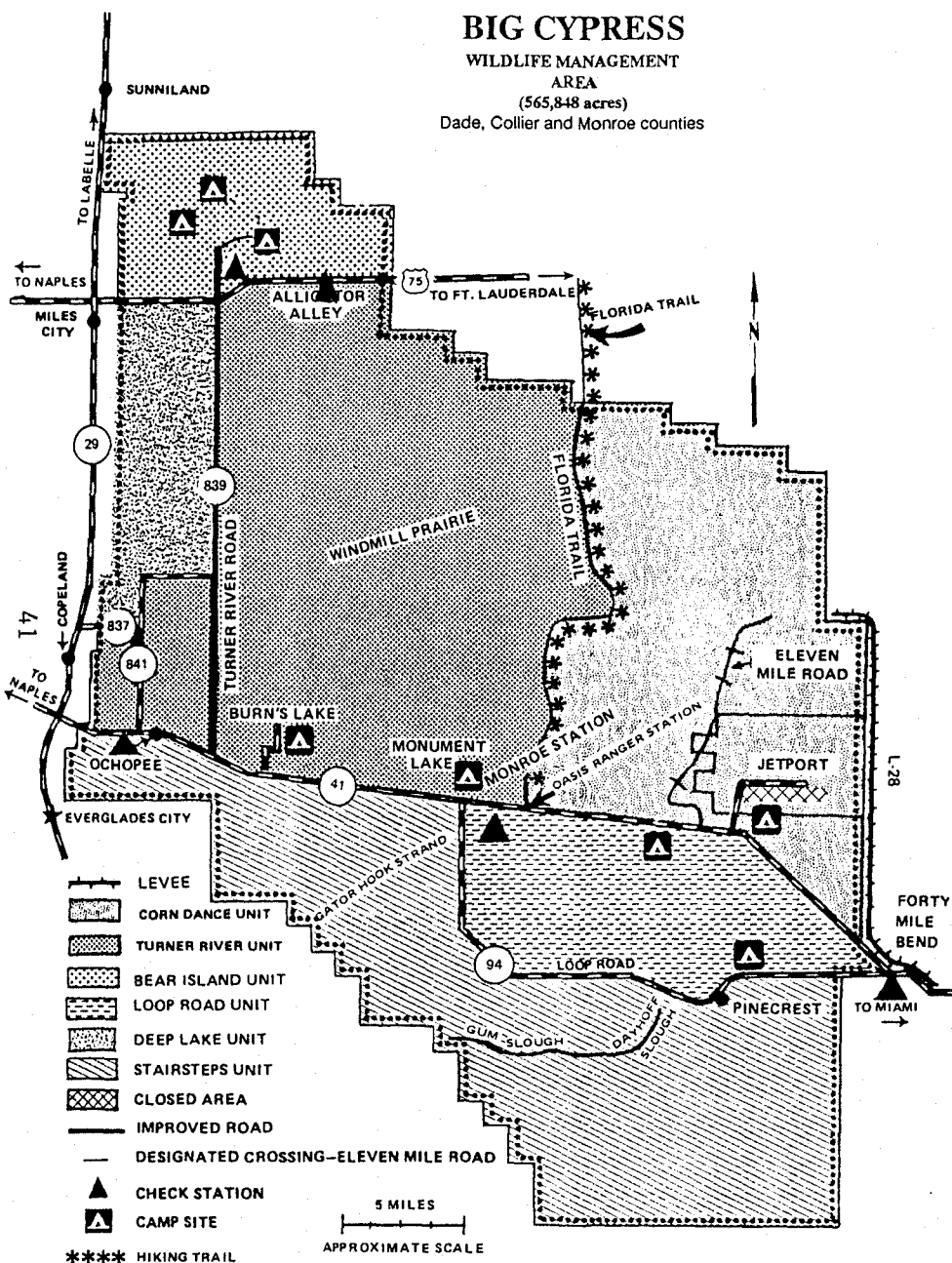
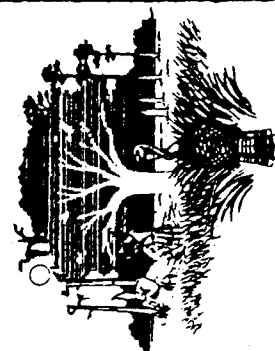


Figure 6. Hunting pressure and harvest of wild hog and white-tailed deer on the Big Cypress National Preserve, 1980-1993.

Appendix A. Big Cypress Wildlife Management Area Regulations, 1992-93.



BIG CYPRESS WILDLIFE MANAGEMENT AREA 1992-93 REGULATIONS SUMMARY AND AREA MAP



A COOPERATIVE PUBLIC WILDLIFE
AND RECREATIONAL AREA
BIG CYPRESS NATIONAL PRESERVE
NATIONAL PARK SERVICE
FLORIDA GAME AND 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 and other recreational use 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 and Florida residents in the U.S. Armed Forces, not stationed in Florida and home on leave with orders in possession, are exempt from most 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 \$25.00 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 November 14 through 22, November 23 through November 29 and December 24 through January 1 of the general gun season. A no-cost special quota hunt permit is required to hunt on the Bear Island Unit from October 10 through 18 of the muzzleloading gun season.

A daily hunt permit (available at the check station) is required for hunting each day during non-quota periods of general gun and muzzleloading gun seasons on the Bear Island Unit (no exemptions). There are 200 daily hunt permits available on a first-come, first-served basis at the check station.

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

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 and antlerless deer permits are transferable, except that any exempt permit is transferable only to another exempt person. The sale or purchase of any quota permit or antlerless deer permit is prohibited.

4. Archery Stamp: This \$5.00 stamp is required when hunting during any archery season outside of the South Zone general gun season dates. This stamp may be purchased from county tax collectors or their subagents.

5. Muzzleloading Gun Stamp: This \$5.00 stamp is required when hunting during the muzzleloading gun season. This stamp is available from county tax collectors or their subagents.

6. Wild Turkey Stamp: This \$5.00 stamp is required if hunting turkeys and may be purchased from county tax collectors or their subagents.

7. State Waterfowl Stamp: This \$3.00 stamp is required while hunting ducks and may be purchased from county tax collectors or their subagents.

8. Federal Duck Stamp: Any hunter 16 years of age or older must possess a federal duck stamp while hunting ducks. This \$15.00 stamp is available at post offices.

9. National 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 National 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 exempted 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 a metal object into any tree or hunting from a tree into which a metal object has been driven is prohibited.
2. It is illegal to cut or damage cattle fences.
3. Wild hogs may not be transported alive.
4. Fires are permitted only on designated camping areas or in back country campsites and must be completely extinguished prior to the user leaving the campsite.

Appendix A. Continued

5. It is unlawful for any person to leave any garbage or refuse or in any way litter in the management area.
6. Hunters using the Bear Island Unit shall enter and exit ONLY through the designated entry point at the north end of Turner River Road.
7. Entering any fenced area within the Jepport area is prohibited.
8. The wanton or willful waste of wildlife is prohibited.
9. The removal of any plant 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. Taking fox is prohibited.
14. Taking fox squirrel is prohibited.
15. Taking any turkey while it is on the roost is prohibited.
16. Killing swimming deer is prohibited.
17. Taking or attempting to take game with the aid of live decoys, traps, snares, nets, drugs, lights or recorded game calls is prohibited.
18. 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.
19. Deer and turkey may be dismembered in the field or camp, but each portion shall have a tag affixed to it identifying the name, address and hunting license number of the person who killed it; the date and location at which it was taken; and shall be readily traceable to the portion of the animal bearing the sex identification.

GUNS OR DOGS:

20. The use or possession of a loaded firearm while under the influence of alcoholic beverages, chemical substances or controlled substances is prohibited. (F.S. 790.151)
21. Hunting with gun and light is prohibited.
22. Hunting wildlife or the display or use of a gun in a manner capable of taking wildlife on or from the rights-of-way of County Roads 837, 839, 841, State Roads 84, 94, U.S. 41 and Burns Road is prohibited.
23. 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.
24. 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.
25. 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.
26. Hunting deer with full-jacketed bullets or any rimfire cartridge is prohibited.
27. 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.
28. Guns or dogs are allowed only during periods in which their use for hunting is allowed.
29. Children under the age of 16 may not be in possession of a firearm unless in the presence of a supervising adult.
30. 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.
31. Hunting deer or hogs with dogs is prohibited. All dogs are prohibited in the Loop Road and Deep Lake units. The possession of dogs customarily used for hunting (other than bird dogs and waterfowl retrievers) is prohibited during any period.
32. No person shall allow any dog to pursue or molest wildlife during any period in which hunting with dogs is prohibited.
33. No person shall possess any dog during any period in which the taking of wildlife by the use of dogs is prohibited, except that dogs not normally used for hunting and kept under restraint may be possessed.

VEHICLES:

NOTICE: You are strongly encouraged to contact the Big Cypress National Preserve office, Star Route, Box 110, HCR 61, Ochopee, FL 33943 (813) 695-2000 regarding any new vehicle use regulations prior to your use of the preserve.

34. All vehicles used off roads shall have a National Park Service off-road vehicle registration permit. See Permit, Stamp and License Requirements for more information.

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

36. Vehicle access or use for the purposes of hunting, fishing or frogging is prohibited except by all-terrain vehicles with 3 or more rubber tires, the front tire(s) of which shall be at least 7 inches wide and the rear tires of which must be at least 9 inches wide and other vehicles with three or more rubber tires of nine-inch minimum width. Airboats are permitted except in the Bear Island, Deep Lake and Loop Road units. Vehicles are prohibited on Loop Road and Deep Lake units and wheeled vehicles are prohibited south and east of Dayhoff Slough and Gum Slough in the Stairsteps Unit except as otherwise indicated. Vehicles shall not be operated off designated roads and trails or outside designated vehicle access areas. In management units other than Loop Road and Deep Lake units, if vehicle access trails or areas have not been designated, vehicles may be operated throughout the unit.

37. All airboats must fly an orange flag at least 10 inches wide by 12 inches long at least 10 feet above the bottom of the vessel.

38. Only vehicles equipped with pneumatic tires may be operated on Jepport Road. Parking on the paved portion of Jepport Road is prohibited.

39. Vehicular use by the public on Eleven-Mile Road or the Florida Trail is prohibited. Vehicles may cross Eleven-Mile Road at designated and marked points only. Maps showing the location of crossings over Eleven-Mile Road are available at the Oasis Ranger Station.

40. No motor vehicle shall be operated on any part of the wildlife management area designated and posted as closed because of inclement weather, poor road conditions, construction, management activities or wildlife surveys.

CAMPING:

41. 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:

42. Hunters shall check in and out at a designated check station when entering the area and check out at the same check station when exiting the area.

43. All game taken 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.

44. No person shall enter or exit the area north of I-75 by any route except via the north end of Turner River Road through the Bear Island check station or at other designated entry points along I-75.

SEARCH:

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

ARCHERY:

September 5 through October 4, in all units and November 14 through January 1 in the Deep Lake Unit only.

Permit, Stamp and License Requirements--Hunting license, wildlife management area stamp, archery stamp (not required November 14 - January 1 in Deep Lake Unit). State and federal waterfowl stamps (if hunting ducks). Quota hunt permits (see no. 3 under Permit, Stamp and License Information).

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

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

1. Possession of firearms or crossbows is prohibited, except that during the early duck season shotguns are permitted for duck hunting on all units except Bear Island and Deep Lake.

2. The transportation of archery equipment on airboats is prohibited.

MUZZLELOADING GUN:

October 10 through 25, except in the Deep Lake Unit.

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 during the first 9 days), daily permit (after first 9 days in Bear Island Unit).

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

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

1. Only muzzleloading guns are allowed.

2. The transportation of muzzleloading equipment on airboats is prohibited.

GENERAL GUN:

November 14 through January 1, except in the Deep Lake Unit.

Permit, Stamp and License Requirements--Hunting license, wildlife management area stamp, regular quota hunt permit (if hunting during designated quota periods, see Permit, Stamp and License Information), daily hunt permit required on Bear Island Unit if hunting during non-quota periods, 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. Bearded turkeys or gobblers may be taken only on the Corn Dance, Turner River and Loop Road units.

Regulations Unique to the General Gun Hunt: All General Wildlife Management Area Regulations shall apply and bird dogs and retrievers are permitted except in Loop Road and Deep Lake units.

SMALL GAME:

January 2 through February 10, except in the Deep Lake Unit.

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

1. The possession of centerfire rifles is prohibited.

2. Bird dogs and waterfowl retrievers are permitted, except in the Loop Road and Deep Lake units.

SPRING TURKEY:

March 13 through April 18, except in the Deep Lake Unit.

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.

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 and Deep Lake units).

Permit, Stamp and License Requirements--Hunting license, wildlife management area stamp. State and federal waterfowl stamps (if hunting ducks). Quota permit if hunting during any designated quota period.

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 and the use of lead shot for taking ducks and coots is prohibited.

FISHING AND FROGGING:

Permitted throughout the year.

NATIONAL PARK SERVICE REGULATIONS:

This area is a national preserve. All of these Big Cypress National Preserve regulations shall apply. For further information, contact the Big Cypress National Preserve Office, Star Route, Box 110, HCR 61 Ochopee, Florida 33943, (813) 695-2000.

1. Any person hunting or accompanying another person hunting any game during the muzzleloader and general gun season 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 waterfowl or turkey or during an archery only season or in an archery only unit. Turkey hunters are required to wear fluorescent orange to and from the blind during general gun season.

2. Any open container of an alcoholic beverage is prohibited in or on all motor vehicles, including off road vehicles.

3. Loaded weapons cannot be carried in/on a motor vehicle, including off road vehicles. Weapons in a vehicle must be packed, cased or stored, not available for ready use.

4. Weapons cannot be discharged from a motor vehicle, including off road vehicles. A weapon may, however, be discharged from an airboat when the vessel is not under power and is stopped.

5. All private property owners in the preserve are required to obtain a burning permit from the National Park Service prior to conducting any burn on their property. Permits can be obtained by calling (813) 695-4111 between 8 a.m. and 4:30 p.m. daily.

6. Constructing a building or other structure is prohibited.

7. Vehicles are prohibited on the Florida Trail.

8. The preserve is closed to the viewing of wildlife with an artificial light. Frogging is permitted.

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. It is unlawful for any person born on or after June 1, 1975 to take wild animal life with the use of a bow or firearm in this state without having first successfully completed a Commission approved hunter safety course.

3. If you have any questions about this material, please call the Game and Fresh Water Fish Commission at (407) 640-6100.

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.

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This publication is one of 72 produced at an annual cost of \$51,449 or \$0.05 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,
1984-1992

Table A. Number of deer tracks observed by transect, Monument/Corn Dance Unit, 1985-91.

SURVEY DATE	TRANSECT NUMBER	DAY							TOTAL	MEAN
		1	2	3	4	5	6	7		
June 1991	1	6	3	2	5				16	4.0
	2	6	7	2	5				20	5.0
	3	0	1	0	0				1	0.3
	4	5	1	3	2				11	2.8
	5	4	2	1	8				15	3.8
	6	8	5	2	2				17	4.3
	7	2	2	0	1				5	1.3
	8	0	1	1	1				3	0.8
	9	1	3	1	8				13	3.3
	10	3	6	2	3				14	3.5
									---	---
									115	2.9
May 1990	1	3	4	4	6	6	5		28	4.7
	2	5	7	6	3	5	1		27	4.5
	3	3	3	4	1	1	3		15	2.5
	4	2	1	2	4	2	3		14	2.3
	5	3	4	4	2	2	2		17	2.8
	6	3	3	2	5	4	2		19	3.2
	7	5	2	3	3	5	3		21	3.5
	8	1	3	1	7	3	4		19	3.2
	9	1	4	4	7	5	1		22	3.7
	10	3	3	3	4	4	4		21	3.5
									---	---
									203	3.4
May 1989	1	7	4	1	4	3	-		19	3.8
	2	7	2	2	3	0	-		14	2.8
	3	5	3	2	3	3	-		16	3.2
	4	4	3	3	5	3	-		18	3.6
	5	2	4	2	2	2	-		12	2.4
	6	3	2	1	4	6	-		16	3.2
	7	4	2	3	0	2	-		11	2.2
	8	3	2	0	1	2	-		8	1.6
	9	3	3	1	2	0	-		9	1.8
	10	3	3	2	3	3	-		14	2.8
									---	---
									137	2.7

Appendix B., Table A. continued

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	3.2
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	3.9
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	2.9

Appendix B., Table A. continued

SURVEY DATE	TRANSECT NUMBER	DAY							TOTAL	MEAN
		1	2	3	4	5	6	7		
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 B. Number of deer observed per mile during aerial surveys of the eastern Stairsteps unit, 1984-92.

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Pre-hunt	1	0	10	10	1.03
Aug. 1984	2	0	3	3	0.31
	3	1	2	3	0.31
	4	0	2	2	0.21
				-----	-----
				18	0.46 (a)
Pre-hunt	1 (55)	0	1	1	0.16
Aug. 1985	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	1 (55)	0	0	0	0.00
Aug. 1986	2	0	1	1	0.16
(1 of 2)	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 B. 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 B. 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)
Annual June 1989	1 (55)	0	9	9	1.96
	2	5	0	5	0.70
	3	2	3	5	0.67
	4	9	13	22	2.66
	5	3	2	5	0.59
	6	0	2	2	0.20
	7	2	0	2	0.19
	8 (62)	10	4	14	1.35
				-----	-----
				64	0.96 (j)
Annual June 1990	1 (55)	1	0	1	0.20
	2	3	0	3	0.41
	3	0	3	3	0.38
	4	6	4	10	1.24
	5	0	3	3	0.37
	6	2	1	3	0.32
	7	0	0	0	0.00
	8 (62)	0	0	0	0.00
				-----	-----
				23	0.35 (k)
Annual June 1991 (1 of 2)	1 (55)	0	2	2	0.40
	2	2	1	3	0.41
	3	0	0	0	0.00
	4	4	6	10	1.24
	5	0	1	1	0.12
	6	2	3	5	0.54
	7	1	0	1	0.10
	8 (62)	3	4	7	0.71
				-----	-----
				29	0.44 (l)

Appendix B., Table B. continued

Survey	Transect #	Left Observer	Right Observer	Total Deer	Average deer/mile
Annual	1 (55)	0	0	0	0.00
June 1991	2	0	1	1	0.14
(2 of 2)	3	1	1	2	0.26
	4	6	2	8	0.99
	5	0	1	1	0.12
	6	5	2	7	0.75
	7	2	3	5	0.51
	8 (62)	3	2	5	0.51
				29	0.44 (1)
Annual	1 (55)	0	0	0	0.00
June 1992	2	2	7	9	1.24
(1 of 2)	3	0	2	2	0.26
	4	0	1	1	0.12
	5	0	1	1	0.12
	6	2	2	4	0.21
	7	0	0	0	0.00
	8 (62)	0	0	0	0.00
				15	0.23 (m)
Annual	1 (55)	0	0	0	0.00
June 1992	2	0	1	1	0.14
(2 of 2)	3	0	0	0	0.00
	4	0	1	1	0.12
	5	1	0	1	0.12
	6	0	0	0	0.00
	7	0	0	0	0.00
	8 (62)	0	0	0	0.00
				3	0.05 (n)

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

1. 100% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/1.00 = 1 \text{ deer}/158 \text{ acres}$.
2. 50% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.50 = 1 \text{ deer}/79 \text{ acres}$.
3. 40% of animals observed: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.40 = 1 \text{ deer}/63 \text{ acres}$.

Appendix B., Table B. continued

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

1. 100% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/124 \text{ acres.}$
2. 50% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/62 \text{ acres.}$
3. 40% of animals observed: $.64 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/50 \text{ acres.}$

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

1. 100% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/209 \text{ acres.}$
2. 50% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/104 \text{ acres.}$
3. 40% of animals observed: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/83 \text{ acres.}$

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

1. 100% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/180 \text{ acres.}$
2. 50% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/90 \text{ acres.}$
3. 40% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/72 \text{ acres.}$

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

1. 100% of animals observed: $.52 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/152 \text{ acres.}$
2. 50% of animals observed: $.52 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/76 \text{ acres.}$
3. 40% of animals observed: $.72 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/61 \text{ acres.}$

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

1. 100% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/200 \text{ acres.}$
2. 50% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/100 \text{ acres.}$
3. 40% of animals observed: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/80 \text{ acres.}$

Appendix B., Table B. continued

- (g) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.06 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/1,322 \text{ acres.}$
 2. 50% of animals observed: $.06 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/661 \text{ acres.}$
 3. 40% of animals observed: $.06 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/529 \text{ acres.}$
- (h) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/2,643 \text{ acres.}$
 2. 50% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/1,322 \text{ acres.}$
 3. 40% of animals observed: $0.03 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/1,057 \text{ acres.}$
- (i) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.77 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/103 \text{ acres.}$
 2. 50% of animals observed: $0.77 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/51 \text{ acres.}$
 3. 40% of animals observed: $0.77 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/41 \text{ acres.}$
- (j) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.96 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/83 \text{ acres.}$
 2. 50% of animals observed: $0.96 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/41 \text{ acres.}$
 3. 40% of animals observed: $0.96 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/33 \text{ acres.}$
- (k) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.35 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/227 \text{ acres.}$
 2. 50% of animals observed: $0.35 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/113 \text{ acres.}$
 3. 40% of animals observed: $0.35 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/91 \text{ acres.}$
- (l) Density estimates based on 10% area coverage:
1. 100% of animals observed: $0.44 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/180 \text{ acres.}$
 2. 50% of animals observed: $0.44 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/90 \text{ acres.}$
 3. 40% of animals observed: $0.44 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/72 \text{ acres.}$

Appendix B., Table B. continued

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

1. 100% of animals observed: $0.23 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/345 \text{ acres.}$
2. 50% of animals observed: $0.23 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/173 \text{ acres.}$
3. 40% of animals observed: $0.23 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/138 \text{ acres.}$

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

1. 100% of animals observed: $0.05 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/1586 \text{ acres.}$
2. 50% of animals observed: $0.05 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/795 \text{ acres.}$
3. 40% of animals observed: $0.05 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/636 \text{ acres.}$

Appendix C. Summary of vehicle surveys conducted on the Big Cypress National Preserve during selected hunting seasons, 1953-56, and 1960-61.

	Seasons Only										ATC			
	53-54	54-55	55-56	56-57	57-58	58-59	59-60	60-61	61-62	62-63				
ARCHERY														
Opening weekend	52 a	141	96	36	133	57			41 a	56	21	6	9	19
1st week	41 a	74	36	71	48	57			18 a	18	4	5	10	4
2nd week	33 a	31	45	43	71	38			26 a	36	2	4	7	5
3rd week	36 a	76	53	53	32	41			22 a	26	9	6	12	5
4th week	--	--	--	51	31	20 f			--	--	--	3	8	3 f
BUZZLOADING														
Opening weekend	196	179	111 d	133	137	135 f			25	54	19 d	10	17	22 f
1st week	75 b	121	71	74	96 f	77 f			12 b	48	9	6	20	22 f
2nd week	22 b	97	31	22	63	63 f			28 b	31	7	5	15	10 f
GENERAL GUN														
Opening weekend	367	406	348	235	300	202 f			142	134	41	14	60	71 f
1st week	112	53	49	--	--	--			24	26	12	--	--	--
2nd week	204 b	242	179	244	165 f	104 f			92 b	66	13	19	27	35 f
3rd week	272 a	367	171	98	168 f	145 f			96 a	96	16	6	41	51 f
4th week	172	206	250	204	110 f	133 f			24	69	17	11	39	33 f
5th week	103 a	225	137	217	109 f	110 f			55 a	63	10	53	25	32 f
6th week	194 a	177	105	204	93 f	95 f			33 a	52	9	0	16	17 f
7th week	81	138	78	206	141 f	106 f			13	55	4	11	29	32 f
8th week	38 a	245	167	145	-- e	-- e			24 a	89	7	14	-- e	-- e
9th week	231	338	249	--	--	--			103	79	10	--	--	--

Appendix C. continued

Swamp Soggy

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

ARCHERY

Opening weekend	22 d	32	36	51	56	43
1st week	14 d	19	16	34	24	33
2nd week	24 d	13	21	33	31	36
3rd week	11 d	23	29	24	20	35
4th week	--	--	--	24	22	25 f

MUZZLELOADING

Opening weekend	84	87	39 d	65	70	77 f
1st week	17 b	53	55	48	61 f	63 f
2nd week	41 b	43	38	33	41	46 f

GENERAL GUN

Opening weekend	164	219	157	143	116	114 f
Midweek	60	61	61	---	---	---
1st week	60 b	94	31	97	67 f	78 f
2nd week	96 a	87	60	42	66 f	82 f
3rd week	95	64	110	63	75 f	84 f
4th week	56 a	68	49	69	56 f	69 f
5th week	31 a	59	50	61	42 f	71 f
6th week	19	43	45	68	78 f	63 f
7th week	36 a	93	67	31	-- e	-- e
8th week	112	93	82	--	--	--

Atwood

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

10 d	4	5	2 e	7	2
8 d	7	12	8 e	2	1
9 d	6	4	7 e	2	3
7 d	10	0	8 e	6	0
-	--	-	4 e	0	3 f

26	19	9 d	6 e	8	9 f
10 b	12	7	13 e	9 f	6 f
26 b	9	7	4 e	5	9 f

140	140	128	82 e	101	90 f
50	24 e	23 e	-	--	--
39 b	57	32	8 e	55 f	38 f
5 a	36	21	0 e	34 f	37 f
31	26	2	0 e	26 f	31 f
22 a	31	16	0 e	18 f	35 f
24 a	7	11	6 e	36 f	23 f
9	15	10	0 e	28 f	59 f
10 a	16	18	9 e	-- e	-- e
46	33	12	-	--	--

Appendix C. continued

	Totals					
	83-84	84-85	85-86	86-87	87-88	88-89
ARCHERY						
Opening weekend	125 a	212	154	156	205	121
1st week	81 a	116	84	116	84	75
2nd week	113 a	116	72	87	111	84
3rd week	76 a	141	94	81	72	81
4th week	--	---	--	82	81	56 f
MUZZLELOADING						
Opening weekend	381	338	169 d	214	232	223 f
1st week	114 b	234	142	141	200 f	170 f
2nd week	177 b	180	133	124	130	126 f
GENERAL GUN						
Opening weekend	813	899	674	524	577	477 f
Midweek	246	166	151	---	---	---
1st week	401 b	459	335	368	314 f	255 f
2nd week	463 a	520	262	146	328 f	315 f
3rd week	352	365	378	278	250 f	331 f
4th week	236 a	387	212	338	208 f	246 f
5th week	182 a	285	175	280	188 f	206 f
6th week	122	251	157	279	276 f	280 f
7th week	158 a	443	259	130	---	---
8th week	486	543	363	---	---	---

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

b) Excluding several locations.

c) Includes Mitchell's Landing.

d) Main campground (Bear Island) not counted.

e) No vehicle count- check in/out forms used to determine pressure.

f) Excludes 31 MW at Alligator alley.

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

Appendix D. Summary of biological data for deer harvested during the 1992-93 hunting seasons on the Big Cypress Wildlife Management Area.
(Zone: 1=Bear Island, 2=Deep Lake, 3=Turner River, 4=Loop Road, 5=Stairsteps, and 6=Corn Dance).

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:			
		ALL ZONES			
		AGE CLASS:			
		1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS
BEAM	N	33.00	37.00	56.00	36.00
CIRCUMFERENCE					
(CM):	NMISS	0.00	0.00	0.00	0.00
	MEAN	4.87	5.77	6.35	7.97
	STD	0.88	2.03	1.28	1.51
	STDERR	0.15	0.33	0.17	0.25
	MAX	7.25	17.00	10.00	11.50
	MIN	3.45	4.25	4.50	5.00
BEAM LENGTH	N	33.00	37.00	56.00	36.00
(CM):					
	NMISS	0.00	0.00	0.00	0.00
	MEAN	13.91	19.57	23.20	31.88
	STD	4.69	5.86	6.90	7.10
	STDERR	0.82	0.96	0.92	1.18
	MAX	25.05	35.00	39.50	43.25
	MIN	4.75	5.75	4.00	12.50
INSIDE SPREAD	N	30.00	29.00	51.00	30.00
(CM):					
	NMISS	3.00	8.00	5.00	6.00
	MEAN	14.55	17.14	21.75	27.90
	STD	4.70	4.90	4.98	5.67
	STDERR	0.86	0.91	0.70	1.03
	MAX	28.00	27.00	34.00	39.00
	MIN	7.00	10.00	12.00	18.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:			
		ALL ZONES			
		AGE CLASS:			
		1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS
TOTAL ANTLER	N	32.00	37.00	56.00	36.00
POINTS	NMISS	1.00	0.00	0.00	0.00
	MEAN	3.63	3.73	5.16	6.69
	STD	1.95	1.73	2.05	2.01
	STDERR	0.34	0.28	0.27	0.34
	MAX	8.00	8.00	9.00	12.00
	MIN	2.00	2.00	2.00	2.00
LIVE WEIGHT	N	23.00	28.00	36.00	27.00
(LBS):	NMISS	10.00	9.00	20.00	9.00
	MEAN	86.48	87.28	95.29	114.59
	STD	11.44	12.83	13.68	15.92
	STDERR	2.39	2.43	2.28	3.06
	MAX	110.00	117.43	123.47	140.00
	MIN	60.00	68.00	69.12	87.24
CONDITION	N	0.00	0.00	0.00	0.00
INDEX:	NMISS	33.00	37.00	56.00	36.00
	MEAN	.	.	.	.
	STD	.	.	.	.
	STDERR	.	.	.	.
	MAX	.	.	.	.
	MIN	.	.	.	.

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA: DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		1				3			
		AGE CLASS:				AGE CLASS:			
		1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	
BEAM	N	12.00	5.00	6.00	8.00	6.00	10.00	5.00	
CIRCUMFERENCE (CM):	NMISS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	MEAN	4.82	5.80	7.08	9.03	4.92	5.98	7.62	
	STD	1.04	0.69	0.98	1.20	0.78	0.79	0.64	
	STDERR	0.30	0.31	0.40	0.43	0.32	0.25	0.28	
	MAX	7.00	6.75	8.25	11.50	5.85	7.00	8.25	
	MIN	3.45	5.00	5.50	8.00	3.50	4.50	6.60	
BEAM LENGTH (CM):	N	12.00	5.00	6.00	8.00	6.00	10.00	5.00	
	NMISS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	MEAN	12.92	22.45	26.54	37.70	16.54	22.35	29.70	
	STD	5.49	5.14	6.60	3.18	4.32	7.19	5.61	
	STDERR	1.58	2.30	2.70	1.12	1.76	2.27	2.51	
	MAX	25.05	28.50	34.25	41.10	22.75	35.00	39.50	
	MIN	4.75	17.00	17.50	31.00	12.50	13.50	25.25	
INSIDE SPREAD (CM):	N	12.00	4.00	5.00	6.00	6.00	5.00	5.00	
	NMISS	0.00	1.00	1.00	2.00	0.00	5.00	0.00	
	MEAN	13.67	18.00	24.60	31.00	16.17	18.80	25.20	
	STD	5.00	8.29	3.44	6.03	3.97	5.45	4.87	
	STDERR	1.44	4.14	1.54	2.46	1.62	2.44	2.18	
	MAX	23.00	27.00	28.00	39.00	24.00	26.00	31.00	
	MIN	7.00	10.00	20.00	25.00	13.00	13.00	21.00	

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		1				3		
		AGE CLASS:				AGE CLASS:		
		1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS
TOTAL ANTLER	N	12.00	5.00	6.00	8.00	6.00	10.00	5.00
POINTS	NMISS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MEAN	3.67	4.20	6.00	7.38	3.50	4.30	5.80
	STD	2.15	2.28	2.90	1.19	1.97	2.00	1.30
	STDERR	0.62	1.02	1.18	0.42	0.81	0.63	0.58
	MAX	8.00	8.00	9.00	8.00	6.00	6.00	7.00
	MIN	2.00	2.00	2.00	5.00	2.00	2.00	4.00
LIVE WEIGHT	N	12.00	5.00	6.00	7.00	2.00	6.00	2.00
(LBS):	NMISS	0.00	0.00	0.00	1.00	4.00	4.00	3.00
	MEAN	91.83	94.62	104.28	131.95	77.50	97.59	105.36
	STD	9.83	15.69	12.37	7.25	24.75	11.78	8.54
	STDERR	2.84	7.02	5.05	2.74	17.50	4.81	6.04
	MAX	110.00	111.39	123.47	140.00	95.00	117.43	111.39
	MIN	75.16	69.12	90.00	122.27	60.00	81.20	99.32
CONDITION	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INDEX:	NMISS	12.00	5.00	6.00	8.00	6.00	10.00	5.00
	MEAN	.	.	.	.	.	.	.
	STD	.	.	.	.	.	.	.
	STDERR	.	.	.	.	.	.	.
	MAX	.	.	.	.	.	.	.
	MIN	.	.	.	.	.	.	.

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		3	4			5		
		AGE CLASS:		AGE CLASS:			AGE CLASS:	
		4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS
BEAM	N	2.00	2.00	4.00	2.00	8.00	12.00	17.00
CIRCUMFERENCE	NMISS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(CM):	MEAN	7.05	6.50	8.00	6.75	8.34	4.60	5.13
	STD	0.07	1.06	6.01	1.41	1.32	0.46	0.58
	STDERR	0.05	0.75	3.01	1.00	0.47	0.13	0.14
	MAX	7.10	7.25	17.00	7.75	10.50	5.00	6.25
	MIN	7.00	5.75	4.50	5.75	6.50	3.75	4.25
BEAM LENGTH	N	2.00	2.00	4.00	2.00	8.00	12.00	17.00
(CM):	NMISS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MEAN	33.00	19.63	13.56	25.88	31.31	12.33	18.81
	STD	2.83	5.83	6.18	8.66	7.19	2.78	3.97
	STDERR	2.00	4.13	3.09	6.13	2.54	0.80	0.96
	MAX	35.00	23.75	19.00	32.00	42.50	16.50	25.00
	MIN	31.00	15.50	5.75	19.75	19.25	7.00	11.25
INSIDE SPREAD	N	1.00	2.00	4.00	2.00	7.00	9.00	15.00
(CM):	NMISS	1.00	0.00	0.00	0.00	1.00	3.00	2.00
	MEAN	24.00	20.50	16.25	20.00	26.71	12.94	17.00
	STD	.	10.61	3.30	4.24	6.92	2.32	4.28
	STDERR	.	7.50	1.65	3.00	2.62	0.77	1.10
	MAX	24.00	28.00	20.00	23.00	36.00	17.00	25.00
	MIN	24.00	13.00	13.00	17.00	19.00	9.50	13.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		3	4			5		
		AGE CLASS:		AGE CLASS:			AGE CLASS:	
		4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS
TOTAL ANTLER POINTS	N	2.00	2.00	4.00	2.00	8.00	11.00	17.00
	NMISS	0.00	0.00	0.00	0.00	0.00	1.00	0.00
	MEAN	6.50	5.50	4.00	5.50	7.25	3.09	3.29
	STD	0.71	2.12	1.83	2.12	1.39	1.64	1.36
	STDERR	0.50	1.50	0.91	1.50	0.49	0.49	0.33
	MAX	7.00	7.00	6.00	7.00	9.00	6.00	7.00
	MIN	6.00	4.00	2.00	4.00	5.00	2.00	2.00
LIVE WEIGHT (LBS):	N	0.00	2.00	4.00	2.00	8.00	7.00	12.00
	NMISS	2.00	0.00	0.00	0.00	0.00	5.00	5.00
	MEAN	.	90.26	73.37	99.32	103.44	78.78	82.71
	STD	.	12.81	6.09	17.08	13.24	3.94	7.27
	STDERR	.	9.06	3.05	12.08	4.68	1.49	2.10
	MAX	.	99.32	81.20	111.39	123.47	83.61	99.32
	MIN	.	81.20	68.00	87.24	87.24	75.16	71.53
CONDITION INDEX:	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NMISS	2.00	2.00	4.00	2.00	8.00	12.00	17.00
	MEAN	.	.	.	.	.	.	.
	STD	.	.	.	.	.	.	.
	STDERR	.	.	.	.	.	.	.
	MAX	.	.	.	.	.	.	.
	MIN	.	.	.	.	.	.	.

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:					
		5			6		
		AGE CLASS:			AGE CLASS:		
		3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS
BEAM	N	38.00	14.00	1.00	1.00	5.00	4.00
CIRCUMFERENCE (CM):	NMISS	0.00	0.00	0.00	0.00	0.00	0.00
	MEAN	6.09	7.30	5.25	5.50	6.10	7.94
	STD	1.29	1.61	.	.	1.14	1.42
	STDERR	0.21	0.43	.	.	0.51	0.71
	MAX	10.00	10.00	5.25	5.50	7.50	10.00
	MIN	4.50	5.00	5.25	5.50	5.00	7.00
BEAM LENGTH (CM):	N	38.00	14.00	1.00	1.00	5.00	4.00
	NMISS	0.00	0.00	0.00	0.00	0.00	0.00
	MEAN	21.78	28.32	17.50	14.50	22.40	33.31
	STD	6.76	8.00	.	.	5.82	3.09
	STDERR	1.10	2.14	.	.	2.60	1.55
	MAX	36.00	43.25	17.50	14.50	30.00	36.25
	MIN	4.00	12.50	17.50	14.50	15.75	29.00
INSIDE SPREAD (CM):	N	34.00	12.00	1.00	1.00	5.00	4.00
	NMISS	4.00	2.00	0.00	0.00	0.00	0.00
	MEAN	21.18	27.58	18.00	11.00	20.00	27.25
	STD	5.13	4.80	.	.	4.42	6.40
	STDERR	0.88	1.38	.	.	1.97	3.20
	MAX	34.00	36.00	18.00	11.00	27.00	36.00
	MIN	12.00	18.00	18.00	11.00	15.00	22.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:					
		5			6		
		AGE CLASS:			AGE CLASS:		
		3.5 YEAR- OLDS	4.5+ YEAR- OLDS	1.5 YEAR- OLDS	2.5 YEAR- OLDS	3.5 YEAR- OLDS	4.5+ YEAR- OLDS
TOTAL ANTLER POINTS	N	38.00	14.00	1.00	1.00	5.00	4.00
	NMISS	0.00	0.00	0.00	0.00	0.00	0.00
	MEAN	5.08	5.86	6.00	2.00	4.00	7.25
	STD	2.01	2.32	.	.	2.00	3.20
	STDERR	0.33	0.62	.	.	0.89	1.60
	MAX	8.00	10.00	6.00	2.00	6.00	12.00
	MIN	2.00	2.00	6.00	2.00	2.00	5.00
LIVE WEIGHT (LBS):	N	22.00	10.00	0.00	1.00	4.00	2.00
	NMISS	16.00	4.00	1.00	0.00	1.00	2.00
	MEAN	90.83	110.07	.	99.32	99.32	121.06
	STD	13.64	13.43	.	.	9.86	5.12
	STDERR	2.91	4.25	.	.	4.93	3.62
	MAX	117.43	132.00	.	99.32	111.39	124.68
	MIN	69.12	93.28	.	99.32	87.24	117.43
CONDITION INDEX:	N	0.00	0.00	0.00	0.00	0.00	0.00
	NMISS	38.00	14.00	1.00	1.00	5.00	4.00
	MEAN	.	.	.	.	.	.
	STD	.	.	.	.	.	.
	STDERR	.	.	.	.	.	.
	MAX	.	.	.	.	.	.
	MIN	.	.	.	.	.	.

Appendix D. Continued

SUMMARY OF ANTILER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		ALL ZONES							
		AGE CLASS:							
		1.5 YEAR-OLDS							
		TOTAL ANTILER POINTS							
		2	3	4	5	6	7	8	
BUCKS	N	16.00	2.00	4.00	2.00	5.00	2.00	1.00	

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA_s DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		ALL ZONES							
		AGE CLASS:							
		2.5 YEAR-OLDS							
		TOTAL ANTLER POINTS							
		2	3	4	5	6	7	8	
BUCKS	N	13.00	6.00	7.00	3.00	6.00	1.00	1.00	

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		ALL ZONES						
		AGE CLASS:						
		3.5 YEAR-OLDS						
		TOTAL ANTLER POINTS						
		2	3	4	5	6	7	8
BUCKS	N	8.00	5.00	11.00	4.00	13.00	5.00	9.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		ALL ZONES						
		AGE CLASS:						
		3.5 YEAR- OLDS	4.5+ YEAR-OLDS					
		TOTAL ANTLER POINTS	TOTAL ANTLER POINTS					
		9	2	3	4	5	6	7
BUCKS	N	1.00	1.00	2.00	1.00	5.00	8.00	3.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA_s DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:			
		ALL ZONES			
		AGE CLASS:			
		4.5+ YEAR-OLDS			
		TOTAL ANTLER POINTS			
		8	9	10	12
BUCKS	N	13.00	1.00	1.00	1.00

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		1						
		AGE CLASS:						
		1.5 YEAR-OLDS						2.5 YEAR-OLDS
		TOTAL ANTLER POINTS						TOTAL ANTLER POINTS
		2	3	4	5	7	8	2
BUCKS	N	6.00	1.00	1.00	2.00	1.00	1.00	1.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		1							
		AGE CLASS:							
		2.5 YEAR-OLDS				3.5 YEAR-OLDS			
		TOTAL ANTLER POINTS				TOTAL ANTLER POINTS			
		3	4	8		2	3	6	8
BUCKS	N	1.00	2.00	1.00		1.00	1.00	1.00	2.00

CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		1							
		AGE CLASS:				3			
		3.5 YEAR- OLDS				AGE CLASS:			
		4.5+ YEAR-OLDS				1.5 YEAR-OLDS			
TOTAL ANTLER POINTS		TOTAL ANTLER POINTS				TOTAL ANTLER POINTS			
		9	5	6	8	2	3	6	
BUCKS	N	1.00	1.00	1.00	6.00	3.00	1.00	2.00	

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		3							
		AGE CLASS:							
		2.5 YEAR-OLDS				3.5 YEAR-OLDS			
		TOTAL ANTLER POINTS				TOTAL ANTLER POINTS			
		2	5	6	4	5	6	7	
BUCKS	N	4.00	1.00	5.00	1.00	1.00	1.00		2.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:								
		3			4					
		AGE CLASS:			AGE CLASS:					
		4.5+ YEAR-OLDS			1.5 YEAR-OLDS			2.5 YEAR-OLDS		
		TOTAL ANTLER POINTS			TOTAL ANTLER POINTS			TOTAL ANTLER POINTS		
		6	7		4	7		2	3	5
BUCKS	N	1.00	1.00		1.00	1.00		1.00	1.00	1.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		4						
		AGE CLASS:						
		2.5 YEAR- OLDS	3.5+ YEAR-OLDS			4.5+ YEAR-OLDS		
TOTAL ANTLER POINTS		TOTAL ANTLER POINTS			TOTAL ANTLER POINTS			
		6	4	7	5	6	8	9
BUCKS	N	1.00	1.00	1.00	1.00	2.00	4.00	1.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:							
		5							
		AGE CLASS:							
		1.5 YEAR-OLDS				2.5 YEAR-OLDS			
		TOTAL ANTLER POINTS				TOTAL ANTLER POINTS			
		2	4	6		2	3	4	5
BUCKS	N	7.00	2.00	2.00		6.00	4.00	5.00	1.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		5						
		AGE CLASS:						
		2.5 YEAR- OLDS	3.5 YEAR-OLDS					
		TOTAL ANTLER POINTS	TOTAL ANTLER POINTS					
		7	2	3	4	5	6	7
BUCKS	N	1.00	5.00	4.00	8.00	3.00	9.00	2.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTILER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMAs DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:						
		5						
		AGE CLASS:						
		3.5 YEAR- OLDS	4.5+ YEAR-OLDS					
		TOTAL ANTILER POINTS	TOTAL ANTILER POINTS					
		8	2	3	4	5	6	7
BUCKS	N	7.00	1.00	2.00	1.00	2.00	2.00	2.00

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTILER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

ZONE DESIGNATION:									
5				6					
				AGE CLASS:					
AGE CLASS:				1.5 YEAR- OLDS		2.5 YEAR- OLDS		3.5 YEAR-OLDS	
4.5+ YEAR-OLDS				TOTAL ANTILER POINTS		TOTAL ANTILER POINTS			
TOTAL ANTILER POINTS				POINTS		POINTS		TOTAL ANTILER POINTS	
8	10	6	2	2	4	6			
BUCKS	N	3.00	1.00	1.00	1.00	2.00	1.00	2.00	

(CONTINUED)

Appendix D. Continued

SUMMARY OF ANTLER, MORPHOLOGIC AND CONDITION DATA FROM BUCKS HARVESTED ON WMA's DURING THE 92-93 SEASON

WILDLIFE MANAGEMENT AREA: BIG CYPRESS

		ZONE DESIGNATION:		
		6		
		AGE CLASS:		
		4.5+ YEAR-OLDS		
		TOTAL ANTLER POINTS		
		5	6	12
BUCKS	N	1.00	2.00	1.00