

BIG CYPRESS NATIONAL PRESERVE

DEER AND HOG ANNUAL REPORT

1994-95

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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 significant rule changes were made for the 1994-95 hunting season. During previous years regulatory changes have been implemented on BCNP either to reduce white-tailed deer (*Odocoileus virginianus*) and wild hog (*Sus scrofa*) harvest or to reduce recreational pressure on the area.

Record water levels in the eastern portion of Big Cypress National Preserve led to unit closures during the hunting seasons. Stairsteps and Loop units were closed for the entire General Gun season, and Turner River and Corn Dance were closed to hunting 9 days into the General Gun season.

Hunting pressure during the 1994-95 Big Cypress season (9,735 man-days) decreased 39% from 1993-94 (15,910 man-days) due to Unit closures. Hunting pressure increased on Bear Island and Deep Lake units but decreased on other units, compared to last years levels.

Checked deer harvest was 124 for Archery, Muzzleloading and General Gun seasons. Deer harvest decreased in all units compared to last year. Checked hog harvest for all seasons was 84, and decreased in each unit except Deep Lake where no harvest occurred. Deer harvest for the 1994-95 Archery and Muzzleloading seasons was greater than 1993-94 levels, while General Gun harvest was 75% less than last year due to Unit closures. Hog harvest for the 1994-95 Muzzleloading season doubled over the previous year but was less in General Gun and Archery. Hunter success (game checked/man-day) was 0.021,

slightly less than last year (0.026) and the previous 5-year average (0.024).

White-tailed deer morphometric values appear to be similar to values recorded since implementation of the 5-inch antler rule in 1986-87. Mean body weight and antler characteristics were in the upper range of values recorded since the rule. Mean dressed weight (80 lbs) of wild hogs was slightly greater than those harvested in 1993-94. Average body length and shoulder height for hogs were slightly less than last years which were the highest since data collection began. 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. Higher values for hogs may be due to improved food, a lower percentage of young animals in the harvest and smaller sample size.

Summary Table 1. Deer harvest totals, man-days pressure, and hunter success by season for 1994-95 and the previous five years in Big Cypress WMA.

Year	Harvest			Pressure			Success (%)		
	A	M	GG	A	M	GG	A	M	GG
89-90	10	24	152	1735	2010	17915	0.6	1.2	0.8
90-91	6	37	139	1660	1625	11055	0.4	2.3	1.3
91-92	10	37	169	1845	2030	13208	0.5	1.8	1.3
92-93	10	34	182	1495	2085	12954	0.7	1.6	1.4
93-94	12	51	190	1890	1955	12065	0.6	2.6	1.6
MEAN	10	37	166	1725	1941	13439	0.6	1.9	1.2
94-95*	18	58	48	2190	2270	5275	0.8	2.6	0.9

Summary Table 2. Hog harvest totals, man-days pressure, and hunter success by season for 1994-95 and the previous five years in Big Cypress WMA.

Year	Harvest			Pressure			Success(%)		
	A	M	GG	A	M	GG	A	M	GG
89-90	19	32	103	1735	2010	17915	1.1	1.6	0.6
90-91	13	33	134	1660	1625	11055	0.8	2.0	1.2
91-92	24	65	165	1845	2030	13208	1.3	3.2	1.2
92-93	15	24	142	1495	2085	12954	1.0	1.2	1.1
93-94	20	21	121	1890	1955	12065	1.1	1.1	1.0
MEAN	18	35	133	1725	1941	13439	1.0	1.8	1.0
94-95*	11	43	30	2190	2270	5275	0.5	1.9	0.6

* Stairsteps and Loop Units were closed during General Gun (GG) and Turner River and Corn Dance Units were reduced to a 9 day General Gun season.

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 1994-95 on BCNP.

Hunting

Deer and hog hunting was permitted during Archery (30 days), Muzzleloader (16 days) and General Gun (51 days) hunts. However, 4 areas were closed either partially or entirely during the General Gun season due to extreme high water levels (Appendix A). Stairsteps and Loop Units were closed to hunting for the entire General Gun season, while Turner River and Corn Dance Units were closed November 23, 9 days into General Gun season. In addition to statewide rules these hunts were governed by specific regulations for BCNP (Appendix B). 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. Regulations for the Deep Lake Unit were modified in 1993-94 to allow muzzleloading firearms during Small Game and Spring Turkey seasons.

This year, the opening date (Nov. 12) of the General Gun hunt on BCNP was one day earlier than the previous year and 2 weeks after the opening date (Oct. 29) in the South zone of the statewide framework. The closing date for General Gun season on the BCNP (Jan. 1) was 1 day earlier than last year and 7 days earlier

than the statewide South zone (Jan. 8). General Gun season on the BCNP was reduced from 58 to 46 days during 1990-91, but increased to 51 days in 1993-94. Archery (30 days) and Muzzleloader (16 days) seasons remained the same length as the previous 3 years.

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. Check station hours were reduced at Forty-Mile Bend and Monroe Station during general gun due to area closures. In addition to this coverage, Forty-Mile Bend (FMB) and Bear Island (BI) were operated full time during Archery season, while Dona Drive was staffed on weekends. When check stations were not staffed hunters could check in or out using forms and self deposit boxes at each of the 4 stations. Check station locations are shown on the map in Appendix B.

Environmental Conditions

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

Figure 1 shows general hydrological conditions for BCNP in 1994. 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 1994 survey showed similar conditions in BCNP compared to March 1993, although Deep Lake and northern Turner River were wetter. The August survey indicated

drier conditions than last year especially in western Turner River and Deep Lake Units, however most of the area was considered wet as is expected. Above normal rainfall occurred throughout South Florida in the latter half of 1994 after the August survey. Record water levels were recorded in Everglades Conservation Area 3 where the Hog Head gauge exceeded 12.5 ft. MSL for an extended period. This level hindered normal Mullet Slough flow patterns to the southeast and resulted in a southerly flow across Raccoon Point through the Loop Unit and into eastern Stairsteps. Record water levels more than 1 foot above prior records were documented for the P-34 gauge from October to December 1994 (Figure 2) and through April 1995.

High water levels resulted in direct and indirect mortality of deer in South Florida in the Fall and Winter of 1994 and early Spring of 1995. Nine radio-collared deer in the Everglades National Park-Big Cypress National Preserve boundary area died between October and December 1994 (Jansen, 1995). Twenty-two of 43 (51%) of the radio-collared deer died between September 1994 and March 1995 (Jansen, 1995). Causes included disease, starvation and predation. In addition, 10 deer were struck and killed by vehicles on U.S. 41, the majority on the north boundary of the Loop Unit.

Fires during 1994 burned 46,339 acres on the BCNP (Table 1). Prescribed fires accounted for 97% of this acreage, while human caused (accidental or arson) and natural fires accounted for 3%. Prescribed burn acres were consistent with park service policy levels. No burns were conducted in the Jetport area by GFC personnel because of low fuel loads.

CENSUS DATA

Deer population surveys have been conducted since 1977. Since 1989, annual surveys have been conducted in May-June in a standard manner within BCNP. Original census data are presented in Appendix C.

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 1994 (Table 2).

In 1994 spotlight counts in western Bear Island resulted in population estimates of 70 deer (1 deer per 274 acres). Estimated deer density for eastern Bear Island was 1 deer per 167 acres. Population estimates from 1994 spotlight counts decreased by 50% in the western portion compared to 1993 and 29% in the eastern portion. These were the lowest population estimates since 1990. Deer harvest (31) in Bear Island during the 1994-95 season was less than last year (34) and the previous 5-year average (40).

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 (Figure 3) and are remeasured each survey 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 4). 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 from 1992 to 1994 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 (22) decreased by 19% from the 1993-94 season, but was greater than the previous 5-year average (21). The unit was closed to hunting and off-road vehicle use on 23 November 1994, 9 days into General Gun season.

Turner River

Deer track count surveys in Turner River Unit have been conducted along a buggy trail in the Mullet Slough area since 1988. Track counts were not conducted in Turner River Unit in 1993 because of reduced access to the transect route. Track counts were not conducted in 1994 due to standing water on 80-90% of the transect. 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). Turner River deer harvest decreased from 72 deer in 1993-94 to 40 in 1994-95 due in part to its closure during General Gun. The unit was closed to hunting and off-road vehicle use on 23 November 1994.

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 5 shows the eastern Stairsteps survey area.

The 1994 annual Stairsteps survey yields deer densities ranging from 1 deer per 132 acres to 1 deer per 441 acres. Deer population estimates were less than last year, similar to 1992 estimates, and less than most estimates since 1985 (Figure 6). Stairsteps deer harvest dropped from 100 in 1993-94 to 21 in 1994-95 due to the Units closure during General Gun. The Stairsteps was closed to hunting on 11 November prior to the opening of general gun 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. During the 1994-95 season, Stairsteps and Loop Units were closed to hunting and off-road vehicle use for the entire General Gun season with a use closure

beginning on 24 October 1994. Turner River and Corn Dance Units were closed to hunting and off-road vehicle use on 23 November 1994, 9 days after the start of General Gun. These closures affected both hunting pressure and game harvest.

Hunting pressure on BCNP was estimated at 9,735 man-days for Archery, Muzzleloading and General Gun seasons (Table 6). This estimate of pressure was 39% less than the prior year (15,910 man-days) and 43% less than the 5-year average (17,105 man-days). Checked deer harvest (124) was 50% less than the 1993-94 record harvest of 253. Hog harvest was 48% less than last year (84 vs. 162), and was less than the previous 5-year average of 186.

Hunter success (game checked/man-day = 0.021) was less than the prior 5 year average of 0.024 (Table 6). Hunter success through 1989 remained fairly stable (0.015-0.016) except for the 1987-88 season (0.020). Hunter success had increased since the 1989-90 season. 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. However, an indirect but potentially significant impact of mandatory check-out is increased compliance with rules requiring that deer and hogs be checked. We believe this is important especially in Corn Dance and Turner River where reported harvest of deer and hogs averaged 158 from 1991-1994 following the mandatory check in and out regulation (1987-88). From 1983-1986 prior to the regulation, the combined harvest averaged 69. If actual harvest levels among years were similar, a commensurate increase in hunter success rates would also occur. This increase (25%) would bring the 1983-86 success rates to 0.020 with harvest adjustments to the Turner River and Corn Dance units only.

Hunter activity and checked harvest has been documented for the last 15 years (Table 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 continued declines in 1992-93, 1993-94, and obviously 1994-95. Pressure for both Archery and Muzzleloading seasons in 1994-95 were higher than their previous 5-year averages. If portions of the area were not closed during General Gun there may have been an increase in total pressure compared to the previous 5-years. 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 record checked harvests being reached in each of the previous 3 years. Hog harvest has fluctuated with a gradual increase from 1987-88 which culminated in a record harvest in 1991-92 followed by two years of decline. 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 5-year averages are shown in Table 7. The 1994-95 deer harvest and hunter success was greater than the 5-year averages for Archery and Muzzleloading, but less than the 5-year average for General Gun season. The 1994-95 hog harvest and hunter success was greater than the 5-year average for Muzzleloading but less than the average for Archery and General Gun seasons.

Deer harvest decreased in all units in 1994-95 compared to 1993-94 (Table 8). Deer harvest in Bear Island (31) and Corn Dance (22) Units were each within 19% of last years harvest. Hog harvest was less in each unit compared to last season (Table 9). No hogs were taken in Deep Lake Unit for the fifth 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 on Deep Lake (+32%) and Bear Island (+35%) Units, but was lower overall than the 1993-94 season (Table 10). Hunter pressure in Bear Island (4735 man-days) was 20% greater than the 5-year average (3962 man-days) but less than the 1989-90 record for that period (5140 man-days). 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 3 through October 2. This was the fifth year of the 30 day season length. The 1994-95 Archery deer harvest (18) was 44% greater than the prior 5-year average (Table 11) and was the highest during the 5-year period. Forty-four percent of the deer harvest occurred during the first 2 days of the season. Archery deer harvest increased on Bear Island, Corn Dance and Stairsteps Units compared to 1993-94. Hog harvest (11) during archery was 42% less than the prior 5-year average. Archery hog harvest increased by 1 in Corn Dance but decreased in all others. Stairsteps and Bear Island each accounted for 39% of the deer harvested during Archery season (Table 8). Turner River accounted for 55% of the hogs taken during Archery season (Table 9). Hunting pressure (2190 man-days) was 24% greater than the prior 5-year average. Bear Island was the most popular unit during Archery season bearing 29% of the total pressure (Table 10) followed closely by Turner River Unit (25%). Pressure increased in all units over last year, except Bear Island. The 1994-95 Archery

hunter success rate (0.013) was less than the previous 5-year average (0.016).

Muzzleloading Season

For the tenth year Muzzleloading season was 16 days long (October 8 through October 23). Muzzleloading season deer harvest (58) was 57% greater than the 5-year average, and hog harvest was 23% less than the previous 5-year average (Table 12). The 1994-95 Muzzleloading deer harvest was the highest during the 5-year period. Eighty-eight percent of the deer harvest occurred within the first 9 days of the season. Deer harvest was evenly distributed among the units except Deep Lake where no harvest occurred. Turner River and Stairsteps accounted for 44% and 35% of the hogs harvested, respectively. Hunting pressure increased by 17% when compared to the prior 5-year average. Pressure increased on all areas except Bear Island compared to the 1993-94 season (Table 10). Muzzleloader success rate (0.044) was greater than the previous 5-year average (0.037). Hog harvest increased on Bear Island, Turner River and Stairsteps Units while deer harvest increased on Bear Island, Corn Dance and Turner River Units compared to 1993-94.

General Gun Season

The 1994-95 General Gun season was 51 days (November 12 through January 1). Hunter activity and harvest during the General Gun season are summarized in Table 13. Both the Stairsteps and Loop Units were closed to hunting during the entire General Gun season. Turner River and Corn Dance Units were closed to hunting and off-road vehicle use on 23 November 1994, 9 days into the General Gun season. Due to unit closures hunter activity dropped to 5,275 man-days, 61% less than the prior 5-year average (Table 13). General Gun deer harvest (48) was 71% less than

the prior 5-year average while hog harvest (30) was 77% less. Turner River Unit accounted for 52% of the deer and 67% of the hogs harvested during General Gun. Bear Island (3635 man-days) accounted for 69% of the General Gun pressure (Table 10).

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). Since 1984 hunter use estimates have been standardized. Hunter use in 1994 was calculated by multiplying the 1984 hunter activity (base year) estimate by the ratio of the 1994 vehicle survey to the 1984 vehicle survey (base year). Results of vehicle surveys are summarized in Appendix D. Although vehicle surveys do not directly measure hunter pressure they do provide a good index and therefore the trends over the past 10 years can be analyzed.

Hunting pressure by week of General Gun season over the past 11 years (with the exception of 1987-89) 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.

Use estimates derived from mandatory check-in and check-out will be presented in a separate report. However, preliminary results from 1994-95 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 night check-ins) would be counted. "Calendar Day Of Daylight" estimates 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. For 1994-95, the estimate of total hunter pressure (Archery through General Gun) based on vehicle count surveys (9,735 man-days) was less than the Man-day estimate from check-in cards (9,965 man-days), Calendar Day with Daylight (11,242 man-days) and Calendar Day (12,060 man-days) estimates. The total vehicle count estimate for General Gun season (5,275 man-days) was greater than the estimate based on Calendar Day with Daylight (4,317), the Man-day estimate (3,966) and the Calendar Day estimate (4,640). The 1994-95 hunter

pressure calculated from vehicle counts was less than direct measurements from check-in cards for Archery and Muzzleloading Gun seasons. Traditionally, Saturday vehicle counts are reasonable estimates of hunter pressure when compared to estimates from mandatory check-in and check-out.

WHITE-TAILED DEER DATA

Herd Composition

Harvested deer were aged by tooth wear and eruption when possible (Severinghaus 1949). In 1994-95 no deer were harvested in the fawn age class. The 1.5 year age class constituted 29.9% of the harvest, while the 2.5 year age class accounted for 25.8% (Table 14). Percentage of harvested deer greater than 2.5 years old was 44.3%. Harvest in the 4.5 (10.3%) and 5.5+ (10.3%) age classes increased compared to last year (7.7% and 9.8%, 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 (1987-1993), 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 14. Bear Island Unit had the highest portion (68.2%) in the 1.5 year age class. Stairsteps Unit had the highest percentage of deer (42.9%) in the 2.5 year age class, while Corn Dance had the highest portion (61.1%) 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 7 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 15. Overall, values in 1994-95 are similar to those reported since implementation of the 5-inch antler rule (1986-87). Mean dressed weight of all animals ranged from 77 pounds in 1993 to 67 pounds in 1986 and was measured at 72 pounds in 1994. Antler circumference at 6.5 cm in 1994 was slightly above the range set in previous years (5.6-6.4 cm). In 1994, antler length (23.0 cm) fell within the range set in previous years (18.8-23.3 cm). Mean number of points per deer (4.6) was the same as last year. Occurrence of spikes by age class and unit of harvest is shown in Table 16. In 1994-95 overall percent spikes by age class was less than 1993-94 in each age class except the 3.5 year class (15% vs. 5%). Mean dressed weight for male deer was greater in Bear Island than in Stairsteps Unit for 1994-95 (Table 15). However, mean antler beam length and circumference and number of points were greater in the Stairsteps unit compared to Bear Island for 1994-95. Appendix E is a summary of antler and morphologic data from deer harvested on BCNP.

WILD HOG 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 1277 of the 1957 hogs checked over the past 12 years.

Mean gutted weights, lengths, and shoulder heights for hogs harvested during the last 12 years are shown in Table 17. Mean body length and shoulder height were slightly less than last years which were the highest on record. Mean dressed weight (80 lbs.) was 8% greater than the 12-year mean of 74 lbs. Lower harvest levels and a probable harvest shift to older animals may explain the increase in average physical measurements.

Measured physical characteristics of male hogs harvested were greater than those of females in 1994-95 (Table 18). Males outweighed females by 25% or 17 pounds (86 lbs. vs. 69 lbs.). Mean body length of males was 3% greater than females (121 cm vs. 118 cm) while shoulder height was 5% greater (66 cm vs 63 cm). These differences are similar to those observed over the prior 11 years.

In general, Bear Island appears to be better habitat for wild hogs compared to Stairsteps Unit. In the 1994-95 harvest, mean dressed weight of hogs in Bear Island was 29% greater than hogs taken from Stairsteps (Table 19). In addition, mean body length and shoulder height were greater in Bear Island compared to Stairsteps for 1994-95 with the same sample size.

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Table 1. Number of acres burned in Big Cypress National Preserve, 1979-1994.

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
1993	45,652	330	45,000	322
1994	46,339	-	44,739	1,600*
TOTALS	807,171	401,116	391,594	14,911
AVG./YR.	50,448	26,741	24,474	931

*Lightning and human caused combined

(Unpublished data from BCNP, March 1995)

Table 2. Population estimates for white-tailed deer on the Big Cypress National Preserve based on spotlight counts, 1988-1994.

Time of survey	Source	Unit	Number of Surveys	Deer Count High/Average	Population Estimate	Density (deer:acre)
1994 Annual	Schortemeyer & Bozzo June 1994	Western Bear Island	3	2/0.7	70	1:274
1994 Annual	Schortemeyer & Bozzo June 1994	Eastern Bear Island	3	7/5	115	1:167
1993 Annual	Schortemeyer & Bozzo July 1993	Western Bear Island	2	4/3	140	1:137
1993 Annual	Schortemeyer & Bozzo July 1993	Eastern Bear Island	2	10/9.5	163	1:117
1992 Annual	Schortemeyer & Bozzo June 1992	Western Bear Island	2	14/14	490	1:39
1992 Annual	Schortemeyer & Bozzo June 1992	Eastern Bear Island	3	16/7.3	262	1:73
1991 Annual	Schortemeyer Manor & Bozzo July 1991	Western Bear Island	3	16/7.7	736 563	1:26 (a) 1:34 (b)
1991 Annual	Schortemeyer Manor & Bozzo July 1991	Eastern Bear Island	3	11/5.7	180	1:106
1990 Annual	Schortemeyer & Manor June 1990	Western Bear Island	5	4/2.4	140	1:137
1990 Annual	Schortemeyer & Manor June 1990	Eastern Bear Island	4	2/1.3	33	1:584
1989 Annual	McGrady, Manor & Schortemeyer May 1989	Western Bear Island	3	24/11.3	683	1:28
1989 Annual	McGrady, Manor & Schortemeyer June 1989	Eastern Bear Island	2	11/7	266	1:72
1988 Annual	McGrady April 1988	Deep Lake	1	8/8	378	1:128

(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	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 1991	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
1982-83 Post-hunt	Track Counts	Pylant, memo 11 April 1983	270,000	1266-2250	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 BCNP, 1988-1992.

Time of survey	Method	Source	Size of 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 & Bozzo, 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, 1977-1994.

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1994 Annual June (1 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	113-284	1:441-176
1994 Annual June (2 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	152-379	1:330-132
1993 Annual June (1 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	234-581	1:214-86
1993 Annual June (2 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	88-221	1:566-226
1992 Annual June (1 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	145-362	1:345-138
1992 Annual June (2 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	32-79	1:1586-636
1991 Annual June (1 of 2)	SRF Aerial Counts	Schortemeyer & Bozzo	50,000	280-560	1:180-90
1991 Annual June (2 of 2)	SRF Aerial Counts	Manor & Bozzo	50,000	280-560	1:180-90

Table 5. continued

Time of Survey	Method	Source	Calculated size of unit (acres)	Population Estimate	Density (deer:acre)
1990 Annual	SRF Aerial Counts	Schortemeyer & Manor	50,000	200-442	1:227-113
1989 Annual	SRF Aerial Counts	Schortemeyer & McGrady	50,000	602-1220	1:83-41
1988 Annual	SRF Aerial Counts	Schortemeyer & McGrady	50,000	485-980	1:103-51
1987 Annual (1 of 2)	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	38-76	1:1322-661
1987 Annual (2 of 2)	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	19-38	1:2643-1322
1986-87 Post-hunt	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	250-500	1:200-100
1986-87 Pre-hunt (2 of 2)	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	330-660	1:152-76
1986-87 Pre-hunt (1 of 2)	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	280-560	1:180-90
1985-86 Post-hunt	SRF Aerial Counts	Schortemeyer & Ramsey	50,000	240-480	1:210-105
1985-86 Pre-hunt	SRF Aerial Counts	Schortemeyer & 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

Table 5. continued

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

Table 6. Big Cypress National Preserve deer harvest, hog harvest and hunting pressure, 1980-95.

Year	No. of Man-days	No. of deer Harvested	No. of hogs Harvested	Hunter Success ¹
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
1993-94	15,910	253	162	0.026
1994-95 ²	9,735	124	84	0.021

¹ Hunter Success = (deer and hog harvest)/man-days of hunting.

² General Gun season was 9 days long in Turner River and Corn Dance Units and closed in Stairsteps and Loop Units.

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

DEER				
SEASON	No. Harvested		Hunter Succ. Ratio ¹	
	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.
Archery	18	9.6	0.008	0.006
Muzzleloader	58	36.6	0.026	0.019
General Gun ²	48	166.4	0.009	0.012
HOG				
Archery	11	18.2	0.005	0.011
Muzzleloader	43	35.0	0.019	0.018
General Gun ²	30	133.0	0.006	0.010

¹ Success ratio = no. of animals harvested/no. of man-days.

² General Gun season was only 9 days long in Turner River and Corn Dance Units and closed in Stairsteps and Loop Units.

Table 8. Six-year comparison of documented deer harvest on the Big Cypress National Preserve, 1989-1995. - and *, indicate areas closed and partially closed, respectively, within a season.

NUMBER OF DEER HARVESTED						
	89-90	90-91	91-92	92-93	93-94	94-95
<u>ARCHERY</u>						
Bear Island	6	2	6	9	4	7
Deep Lake	1	-	-	0	0	0
Corn Dance	0	0	2	0	0	1
Turner River	1	1	0	1	5	2
Stairsteps	0	1	0	0	2	7
Loop	2	2	2	0	1	1
Total	10	6	10	10	12	18
<u>MUZZLELOADING</u>						
Bear Island	6	9	9	15	9	11
Deep Lake	0	-	-	-	-	-
Corn Dance	0	6	7	1	8	11
Turner River	7	7	9	11	9	13
Stairsteps	5	8	8	2	15	14
Loop	6	7	4	5	10	9
Total	24	37	37	34	51	58
<u>GENERAL GUN</u>						
Bear Island	26	28	23	26	21	13
Deep Lake	3	1	0	0	1	0
Corn Dance	14	22	14	11	19	10*
Turner River	20	26	41	42	56	25*
Stairsteps	67	46	79	92	83	-
Loop	22	16	12	11	8	-
Total	152	139	169	182	190	48
<u>COMBINED</u>						
Bear Island	38	39	38	50	34	31
Deep Lake	4	1	0	0	1	0
Corn Dance	14	28	23	12	27	22
Turner River	28	34	50	54	72	40
Stairsteps	72	55	87	94	100	21
Loop	30	25	18	16	19	10
Total	186	182	216	226	253	124

Table 9. Six-year comparison of documented hog harvest on the Big Cypress National Preserve, 1989-1995. - and *, indicate areas closed and partially closed, respectively, within a season.

NUMBER OF HOGS HARVESTED						
	89-90	90-91	91-92	92-93	93-94	94-95
<u>ARCHERY</u>						
Bear Island	11	9	12	4	1	0
Deep Lake	1	-	-	0	0	0
Corn Dance	1	0	1	0	1	1
Turner River	0	1	5	9	10	6
Stairsteps	2	1	1	0	6	1
Loop	4	2	5	2	2	3
Total	19	13	24	15	20	11
<u>MUZZLELOADING</u>						
Bear Island	13	17	20	2	0	4
Deep Lake	1	-	-	-	-	-
Corn Dance	0	0	6	0	3	1
Turner River	7	6	20	19	10	19
Stairsteps	9	3	10	0	4	15
Loop	2	7	9	3	4	4
Total	32	33	65	24	21	43
<u>GENERAL GUN</u>						
Bear Island	33	57	26	22	16	4
Deep Lake	0	0	0	0	0	0
Corn Dance	4	12	18	8	10	6*
Turner River	13	21	43	32	41	20*
Stairsteps	42	30	67	69	48	-
Loop	11	14	11	11	6	-
Total	103	134	165	142	121	30
<u>COMBINED</u>						
Bear Island	57	83	58	28	17	8
Deep Lake	2	0	0	0	0	0
Corn Dance	5	12	25	8	14	8
Turner River	20	28	68	60	61	45
Stairsteps	53	34	78	69	58	16
Loop	17	23	25	16	12	7
Total	154	180	254	181	162	84

Table 10. Six-year comparison of documented hunter pressure on Big Cypress National Preserve, 1989-1995. - and *, indicate areas closed and partially closed, respectively, within a season.

HUNTER PRESSURE (MAN-DAYS)						
	89-90	90-91	91-92	92-93	93-94	94-95
<u>ARCHERY</u>						
Bear Island	490	565	595	675	810	630
Deep Lake	20	-	-	10	10	40
Corn Dance	275	245	195	260	260	330
Turner River	280	350	445	285	365	540
Stairsteps	575	365	440	205	335	495
Loop	95	135	170	60	110	155
Total	1735	1660	1845	1495	1890	2190
<u>MUZZLELOADING</u>						
Bear Island	555	540	570	590	520	470
Deep Lake	40	-	-	-	-	-
Corn Dance	290	265	265	265	295	405
Turner River	370	265	570	735	530	605
Stairsteps	630	405	480	395	470	635
Loop	125	150	145	100	140	155
Total	2010	1625	2030	2085	1955	2270
<u>GENERAL GUN</u>						
Bear Island	4095	2520	2538	2571	2175	3635
Deep Lake	515	80	108	89	100	105
Corn Dance	2035	1495	1591	1689	1415	560*
Turner River	3950	3775	4044	4107	3415	975*
Stairsteps	6080	2345	4078	3880	4270	-
Loop	1240	840	849	618	690	-
Total	17915	11055	13208	12954	12065	5275
<u>COMBINED</u>						
Bear Island	5140	3625	3703	3836	3505	4735
Deep Lake	575	80	108	99	110	145
Corn Dance	2600	2005	2051	2214	1970	1295
Turner River	4600	4390	5059	5127	4310	2120
Stairsteps	7285	3115	4998	4480	5075	1130
Loop	1460	1125	1164	778	940	310
Total	21660	14340	17083	16534	15910	9735

Table 11. Archery season harvest summary Big Cypress National Preserve, 1994-95.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1994-95 dates	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.
1 (9-3 to 9-4)	8	2.8	0	4.8	825	570
2 (9-5 to 9-11)	3	3.6	3	5.8	480	378
3 (9-12 to 9-18)	4	1.4	4	2.6	380	326
4 (9-19 to 9-25)	2	1.0	3	2.2	275	273
5 (9-26 to 10-2)*	1	1.0	1	3.5	230	223
TOTAL	18	9.8	11	18.9	2190	1770

*Five-week season began in 1990-91.

Table 12. Muzzleloader season harvest summary Big Cypress National Preserve, 1994-95.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1994-95 dates	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.
1 (10- 8 to 10- 9)	15	12.0	13	9.8	885	838
2 (10-10 to 10-16)	36	15.8	17	17.0	715	591
3 (10-17 to 10-23)	7	8.8	13	7.8	670	512
TOTAL	58	36.6	43	34.6	2270	1941

Table 13. General Gun season harvest summary, Big Cypress National Preserve, 1994-95.

WEEK	DEER		HOG		HUNTER ACTIVITY (man-days)	
1994-95 dates ¹	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.	1994-95	Prior 5 yr. avg.
1 (11-12 to 11-13)	14	37.4	11	27.6	1050	2237
2 (11-14 to 11-20)	21	45.6	14	33.0	1130	2496
3 (11-21 to 11-27)	7	20.0	5	19.6	765	1726
4 (11-28 to 12-04)	4	15.6	0	16.2	395	1463
5 (12-5 to 12-11)	0	17.0	0	11.4	410	1806
6 (12-12 to 12-18)	2	10.6	0	8.6	550	1249
7 (12-19 to 12-25)	0	12.8	0	9.2	230	1409
8 (12-26 to 01-01)	0	6.8	0	6.0	745	843
TOTAL	48	165.8	30	131.6	5275	13229

¹ General Gun season was only 9 days long in Turner River and Corn Dance Units and was closed in Stairsteps and Loop Units.

Table 14. Age structure of male white-tailed deer harvested on the Big Cypress National Preserve by unit of harvest, 1994-95.

AGE CLASS	BEAR ISLAND		TURNER RIVER		LOOP		STAIRSTEPS		CORN DANCE		ALL UNITS COMBINED	
	#	%	#	%	#	%	#	%	#	%	#	%
1.5	15	68.2	5	18.5	2	22.2	4	19.0	3	16.7	29	29.9
2.5	4	18.2	6	22.2	2	22.2	9	42.9	4	22.2	25	25.8
3.5	3	13.6	9	33.3	2	22.2	6	28.6	3	16.7	23*	23.7
4.5	0	0.0	3	11.1	1	11.2	2	9.5	4	22.2	10	10.3
5.5+	0	0.0	4	14.9	2	22.2	0	0.0	4	22.2	10	10.3
Sample Size	22		27		9		21		18		97	

Table 15. Weight and antler characteristics of male deer harvested during 1994-95, Big Cypress National Preserve.

AGE CLASS	SAMPLE SIZE BY UNIT						MEAN DRESSED WEIGHT (LBS.)					
	I ¹	III	IV	V	VI	ALL	I	III	IV	V	VI	ALL
1.5	11	1	2	2	2	18	66	92	62	61	62	66
2.5	4	2	1	7	1	15	75	75	55	65	80	70
3.5	1	5	2	2	0	10	100	78	68	80	-	78
4.5	0	2	0	2	1	5	-	82	-	78	85	81
5.5+	0	0	2	0	2	4	-	-	66	-	88	77
TOTAL	16	10	7	13	6	52	70	80	64	69	78	72

AGE CLASS	MEAN ANTLER MAIN BEAM CIRCUMFERENCE (cm)						MEAN ANTLER MAIN BEAM LENGTH (cm)					
	I	III	IV	V	VI	ALL	I	III	IV	V	VI	ALL
1.5	4.9	5.3	5.8	5.0	5.7	5.1	13.7	16.0	17.6	14.8	18.7	15.1
2.5	6.1	5.5	6.1	6.0	5.6	5.9	14.8	24.1	20.8	20.1	22.3	20.5
3.5	6.8	6.5	6.1	7.7	6.7	6.9	19.2	24.7	22.1	28.5	21.5	24.4
4.5	-	8.2	9.5	8.5	8.0	8.3	-	31.6	39.8	34.3	32.8	33.4
5.5+	-	8.2	10.1	-	9.0	9.0	-	35.5	41.8	-	34.3	36.6
TOTAL	5.4	6.6	7.3	6.5	7.0	6.5	14.8	26.0	27.2	22.8	26.7	23.0

AGE CLASS	MEAN NUMBER OF POINTS					
	I	III	IV	V	VI	ALL
1.5	2.5	3.0	3.5	2.5	3.3	2.7
2.5	3.0	3.5	5.0	4.8	4.3	4.2
3.5	3.0	4.1	3.5	5.7	4.0	4.4
4.5	-	7.0	8.0	9.0	6.5	7.3
5.5+	-	7.0	10.0	-	8.0	8.1
TOTAL	2.7	4.7	5.8	5.0	5.4	4.6

¹Units: 1 = Bear Island, III = Turner River, IV = Loop, V = Stairsteps, VI = Corn Dance

Table 16. Number of spikes, percent spikes and average main beam length of adult deer harvested on the Big Cypress National Preserve, 1994-95.

AGE CLASS	NUMBER OF SPIKES						I	% SPIKES IN AGE CLASS					ALL	MAIN BEAM LENGTH OF SPIKES (inches)			
	I(a)	III	IV	V	VI	ALL		III	IV	V	VI	ALL		0-1	1-3	3-5	>5
1.5	8	1	1	2	0	12	53.0	20.0	33.3	50.0	0.0	52.2	-	-	6	6	
2.5	2	1	0	1	0	4	50.0	16.7	0.0	11.1	0.0	18.2	-	-	1	3	
3.5	0	2	0	0	1	3	0.0	22.2	0.0	0.0	33.3	15.0	-	-	-	3	
4.5	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	
5.5+	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	

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

Table 17. Physical characteristics of wild hogs harvested on the Big Cypress National Preserve, 1983-95.

YEAR	SAMPLE SIZE	MEAN DRESSED WEIGHT (lbs.)	MEAN BODY LENGTH (cm.)(a)	MEAN SHOULDER HEIGHT (cm.)
1983-84	126	71(20-198)	114(42-170)	59(15-90)
1984-85	119	71(18-350)	116(77-164)	61(40-90)
1985-86	67	75(18-175)	116(54-152)	64(28-90)
1986-87	75	70(20-155)	115(78-155)	63(36-88)
1987-88	101	71(16-245)	115(75-166)	62(39-98)
1988-89	108	83(20-238)	120(68-158)	63(22-85)
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)
1993-94	93	77(25-220)	123(58-161)	66(44-94)
1994-95	39	80(25-205)	120(86-156)	65(47-86)

(a) Body length does not include tail

Table 18. Comparison by sex of physical characteristics of wild hogs harvested on Big Cypress National Preserve, 1983-95.

YEAR	SEX	SAMPLE SIZE	MEAN DRESSED WEIGHT (lbs.)	MEAN BODY LENGTH (cm.)	MEAN 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)
1993-94	F	52	64(25-115)	118(80-157)	63(44-94)
	M	41	94(27-220)	127(58-161)	70(51-88)
1994-95	F	14	69(30-125)	118(97-135)	63(47-78)
	M	25	86(25-205)	121(86-156)	66(47-86)

Table 19. Comparison of wild hogs harvested on the Big Cypress National Preserve in the Stairsteps and Bear Island units, 1983-95.

Year	Unit	Sample size	Mean Dressed weight (lbs)	Mean body length (cm.)	Mean shoulder height (cm.)
1983-84	Bear Island	70	77 (24-198)	115 (47-170)	61 (19-90)
	Stairsteps	38	61 (20-135)	110 (42-144)	55 (24-72)
1984-85	Bear Island	49	74 (20-350)	115 (81-164)	61 (42-90)
	Stairsteps	44	62 (18-136)	113 (77-148)	59 (40-82)
1985-86	Bear Island	21	92 (50-155)	121 (100-143)	68 (59-90)
	Stairsteps	23	55 (18-145)	111 (76-141)	61 (40-82)
1986-87	Bear Island	22	71 (20-150)	113 (78-136)	65 (36-88)
	Stairsteps	31	80 (30-155)	119 (78-155)	65 (46-83)
1987-88	Bear Island	35	80 (25-245)	118 (96-166)	69 (48-98)
	Stairsteps	39	60 (16-151)	110 (75-140)	57 (39-76)
1988-89	Bear Island	47	97 (30-238)	122 (84-158)	69 (47-85)
	Stairsteps	37	73 (32-150)	118 (90-153)	60 (42-80)
1989-90	Bear Island	49	69 (30-180)	118 (85-162)	62 (47-87)
	Stairsteps	31	67 (25-160)	115 (88-147)	61 (47-80)
1990-91	Bear Island	70	76 (30-165)	116 (71-154)	64 (22-88)
	Stairsteps	22	69 (25-140)	118 (86-142)	64 (43-79)
1991-92	Bear Island	47	84 (35-235)	122 (79-170)	67 (46-90)
	Stairsteps	50	79 (26-155)	123 (80-147)	65 (27-88)
1992-93	Bear Island	24	103 (45-182)	130 (94-159)	71 (34-88)
	Stairsteps	49	70 (20-145)	117 (79-150)	64 (48-83)
1993-94	Bear Island	12	110 (45-220)	134 (95-161)	75 (57-88)
	Stairsteps	36	68 (25-140)	121 (80-157)	64 (44-94)
1994-95	Bear Island	8	97 (48-205)	123 (98-156)	68 (51-86)
	Stairsteps	8	75 (25-145)	117 (88-142)	62 (47-77)

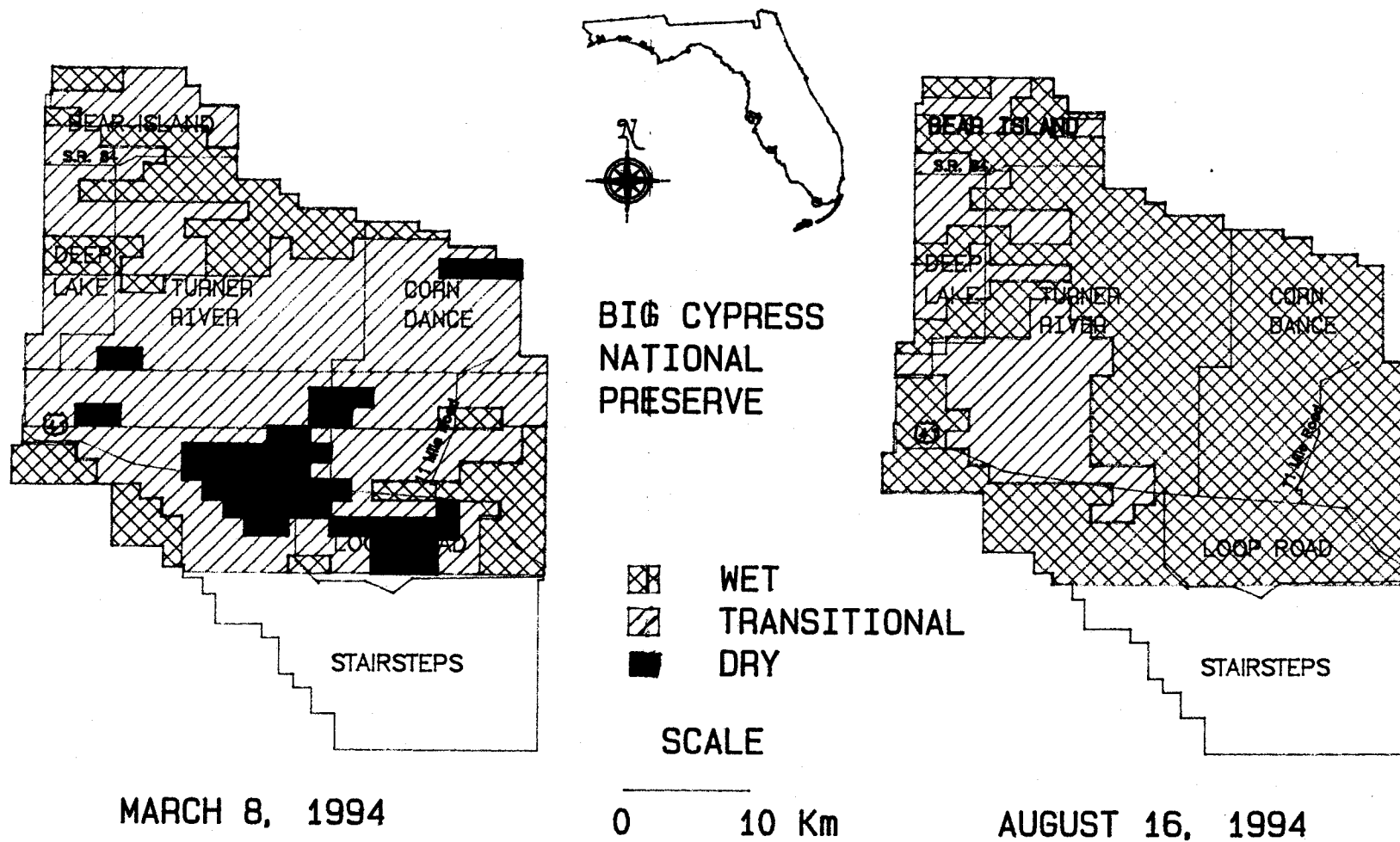


Figure 1. Comparison of dry and wet season hydropatterns on the Big Cypress National Preserve, 1994.

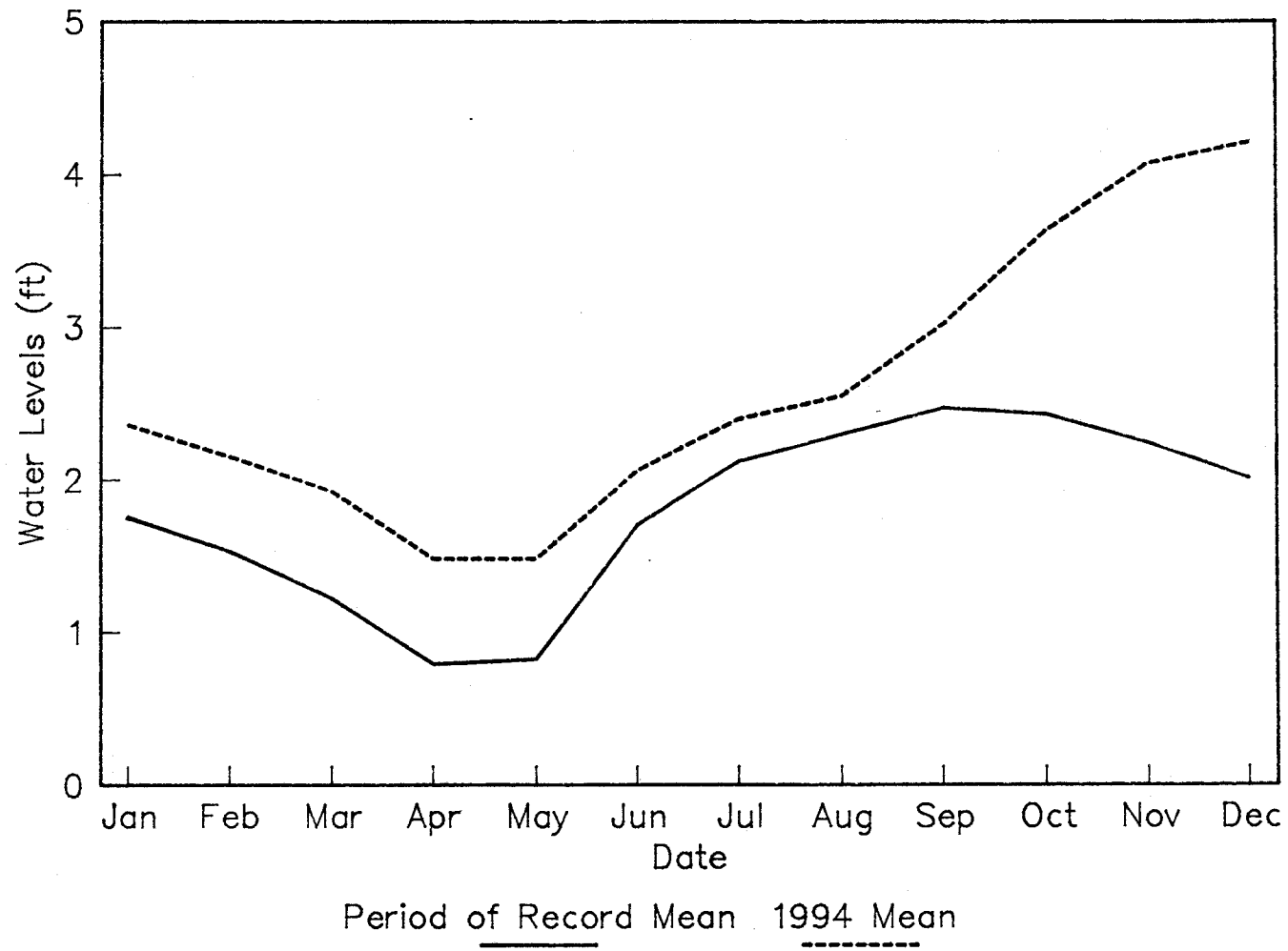


Figure 2. Mean water levels for period of record (1953-1994) and 1994 at Everglades Station P34.

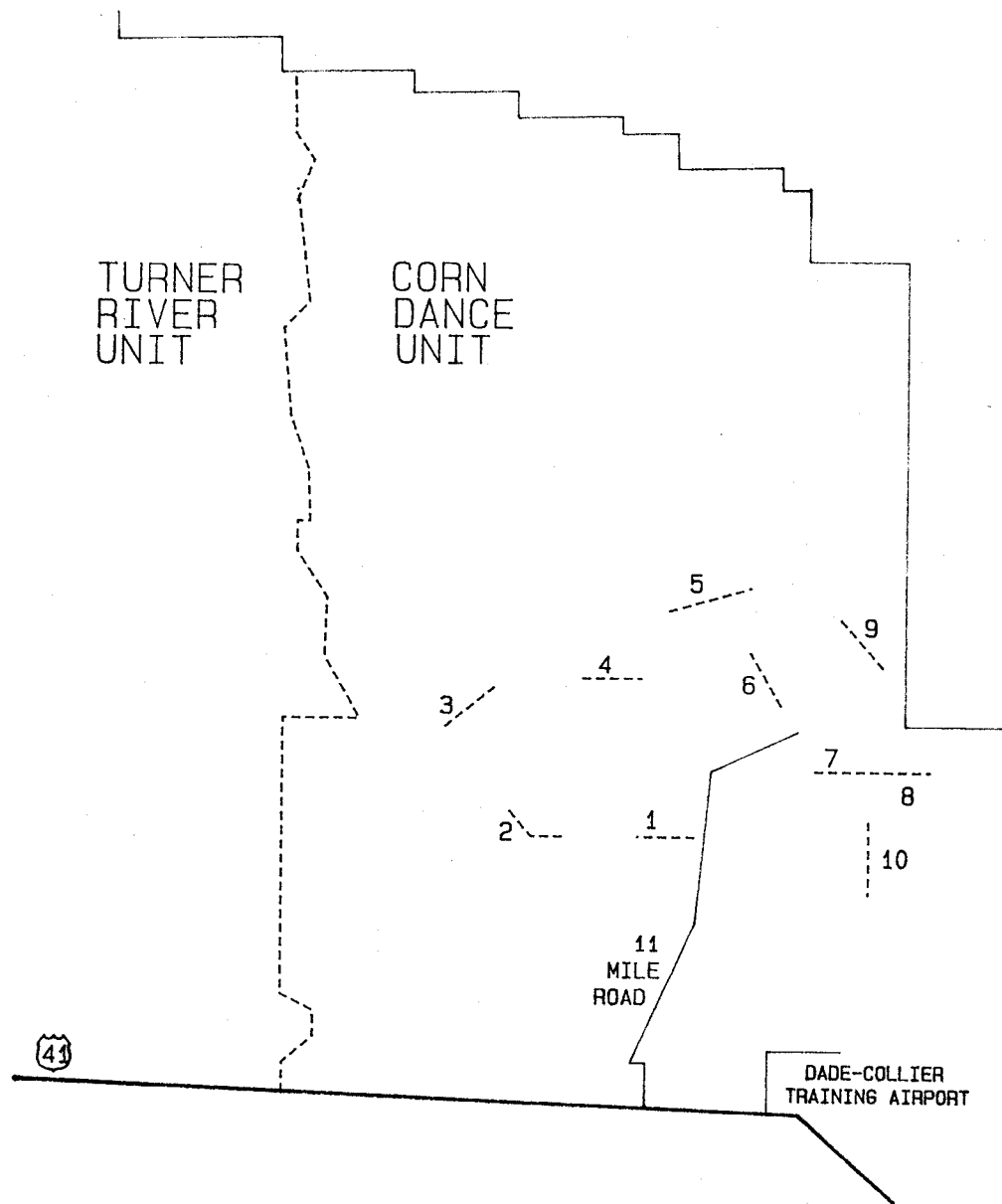


Figure 3. Deer track survey transects, Corn Dance Unit, Big Cypress National Preserve, 1985-1991.

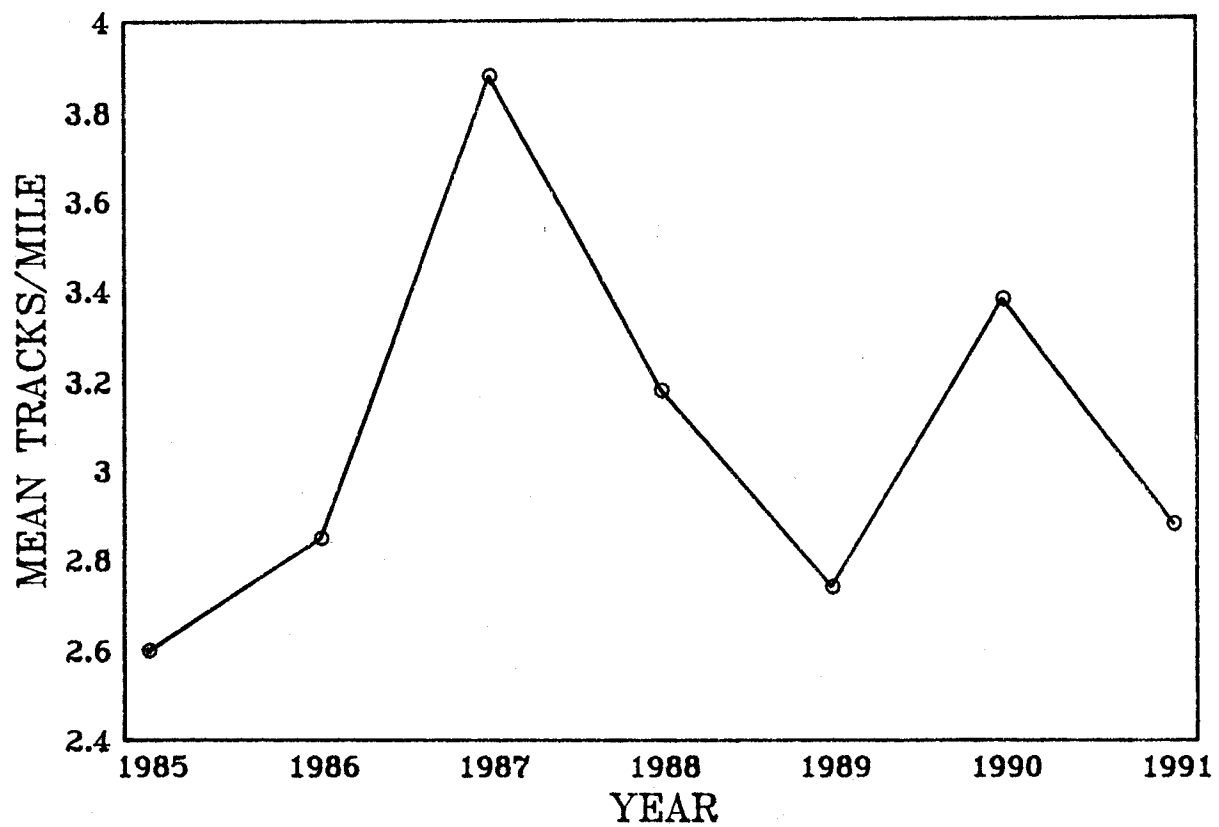


Figure 4. Mean number of tracks per one mile transect in the Corn Dance Unit of Big Cypress National Preserve, 1985-1991.

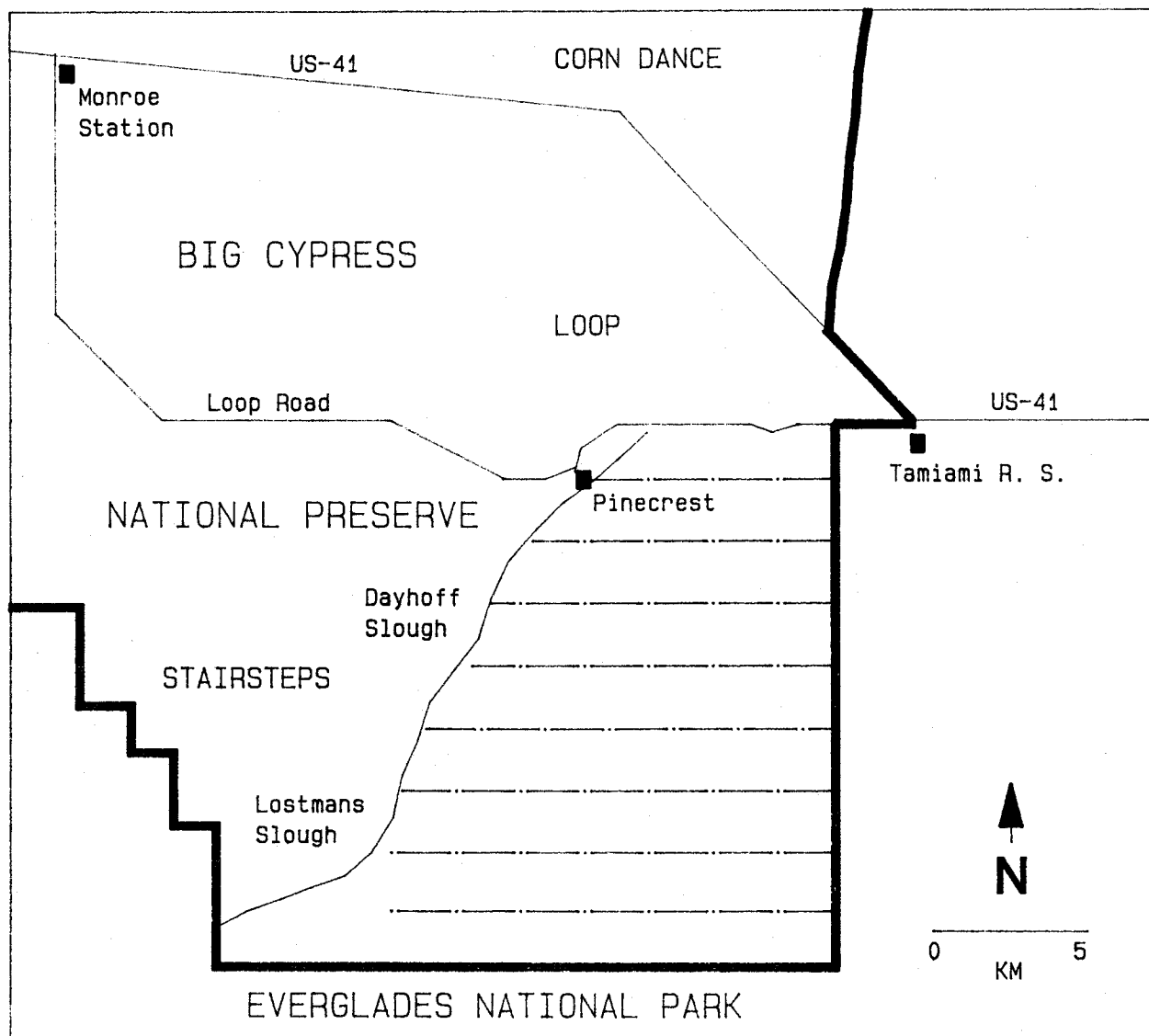


Figure 5. Survey transects and general survey area for aerial deer census, eastern Stairsteps Unit, Big Cypress National Preserve, 1985-1994.

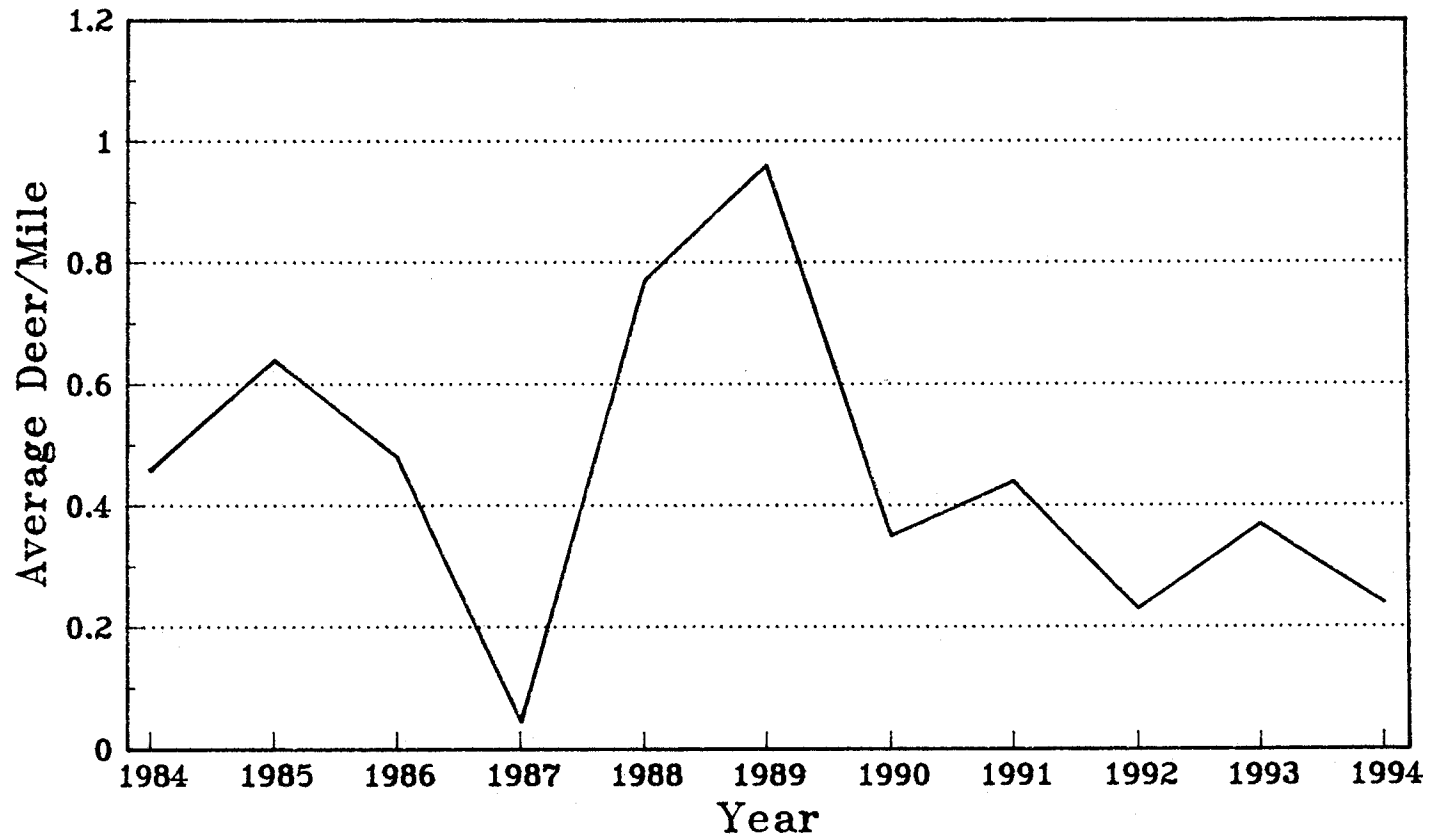


Figure 6. Average number of deer observed per mile in the eastern Stairsteps Unit, Big Cypress National Preserve, 1984-1994.

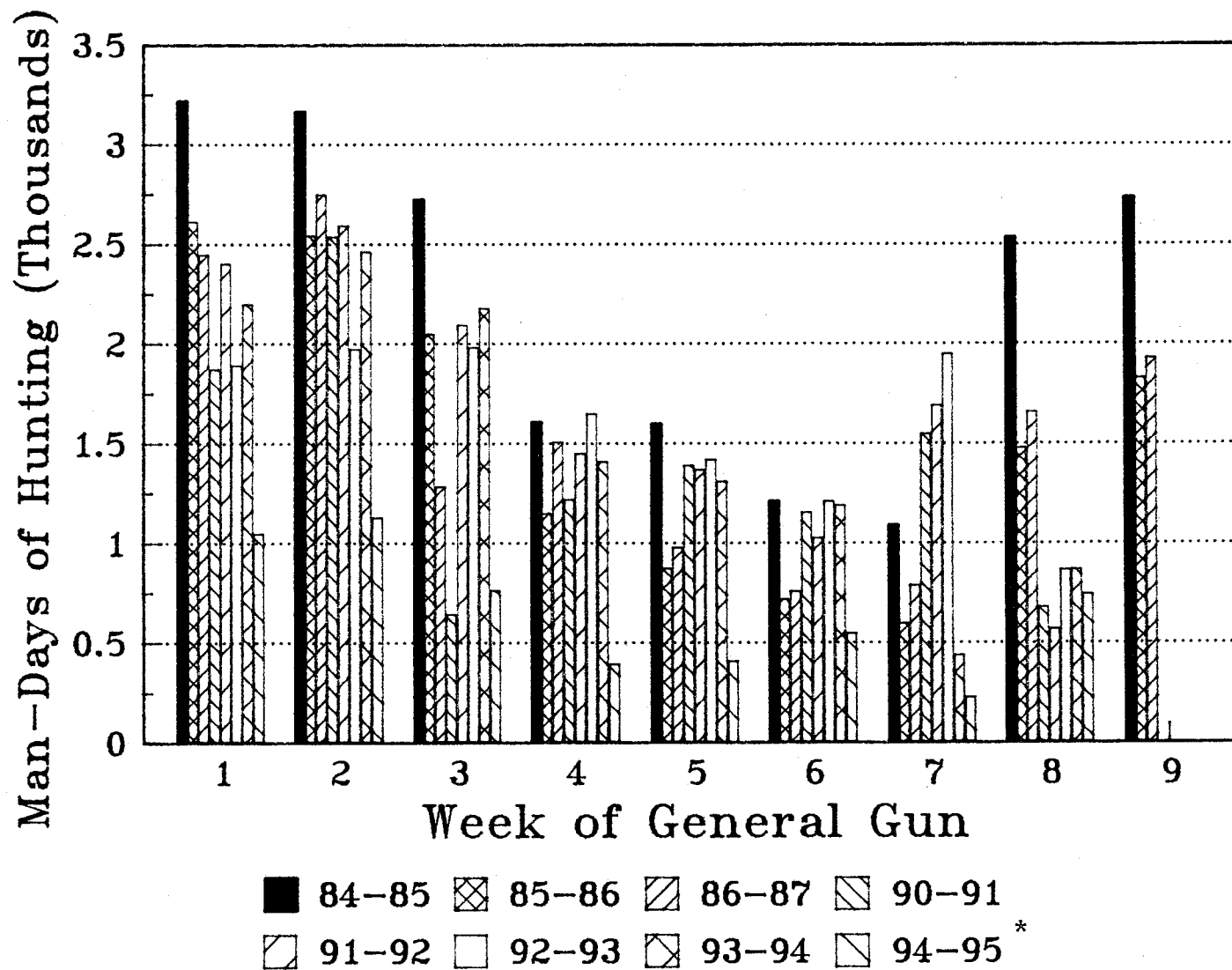


Figure 7. General Gun season hunting pressure by week, Big Cypress National Preserve, 1984-1995.

* Stairsteps and Loop Units were closed. Turner River and Corn Dance Units were only open for the first 2 weeks.

BIG CYPRESS NATIONAL PRESERVE

ATTENTION HUNTERS AND OFF-ROAD VEHICLE OWNERS

THE HIGH WATER LEVELS THROUGHOUT THE PRESERVE CONTINUE TO STRESS ANIMAL POPULATIONS. THE CONCENTRATION OF ANIMALS ON LIMITED HIGH GROUND, SPARSE DEER FORAGE AND DISPERSAL FROM NORMAL HOME RANGES REQUIRES THE NATIONAL PARK SERVICE TO ESTABLISH ADDITIONAL PUBLIC USE LIMITS AND CONTROLS UNTIL WATER LEVELS RECEDE TO ACCEPTABLE LEVELS.

EFFECTIVE 12:01 A.M. NOVEMBER 11, 1994 UNTIL FURTHER NOTICE:

1. THE STAIRSTEPS UNIT WILL BE CLOSED TO HUNTING AND OFF-ROAD VEHICLE USE.
2. THE LOOP UNIT WILL BE CLOSED TO HUNTING AND OFF-ROAD VEHICLE USE.
3. THE CORN DANCE UNIT WILL BE OPEN TO HUNTING. YOU MAY USE BUGGIES, ALL TERRAIN VEHICLES, AND STREET LEGAL 4X4 VEHICLES. THE UNIT IS CLOSED TO AIRBOAT USE.
4. THE BEAR ISLAND UNIT WILL BE OPEN TO HUNTING. YOU MAY USE BUGGIES, ALL TERRAIN VEHICLES, AND STREET LEGAL 4X4 VEHICLES ON THE DESIGNATED TRAIL SYSTEM. THE UNIT IS CLOSED TO AIRBOAT USE.
5. THE TURNER RIVER UNIT WILL BE OPEN TO HUNTING. YOU MAY USE BUGGIES, ALL TERRAIN VEHICLES, AND STREET LEGAL 4X4 VEHICLES. THE UNIT IS CLOSED TO AIRBOAT USE.
6. THE DEEP LAKE UNIT IS OPEN TO HUNTING AND CLOSED TO ALL OFF-ROAD VEHICLE USE.

The following table indicates what type/manner of public use is allowed in the specific management units of the Big Cypress National Preserve/Wildlife Management Area.

MANAGEMENT UNIT	TYPE OF USE				
	HUNTING	AIRBOATS WITH ORV PERMIT	BUGGIES WITH ORV PERMIT	ATV/ATC WITH ORV PERMIT	STREET LEGAL 4X4 WITH ORV PERMIT
STAIRSTEPS *	NO	NO	NO	NO	NO
LOOP	NO	NO	NO	NO	NO
CORN DANCE	YES	NO	YES	YES	YES
BEAR ISLAND	YES	NO	YES ON DESIGNATED TRAILS ONLY	YES ON DESIGNATED TRAILS ONLY	YES ON DESIGNATED TRAILS ONLY
TURNER RIVER	YES	NO	YES	YES	YES
DEEP LAKE	YES	NO	NO	NO	NO

ONLY PROPERTY OWNERS OF RECORD MAY ACCESS THEIR PROPERTY VIA THE MOST DIRECT ROUTE TO AND FROM A RECOGNIZED ACCESS POINT TO THE PROPERTY. ALL GUESTS TO A PROPERTY MUST BE ACCOMPANIED BY AN OWNER OF RECORD.

THIS TEMPORARY CLOSURE DOES NOT AFFECT THE OPERATION OF OFF-ROAD VEHICLES ON PRIVATE PROPERTY.

ALL OFF-ROAD VEHICLES MUST BE REGISTERED WITH THE NATIONAL PARK SERVICE AND HAVE A BIG CYPRESS ORV PERMIT TO OPERATE WITHIN BIG CYPRESS NATIONAL PRESERVE. PERMITS ARE AVAILABLE AT THE BIG CYPRESS NATIONAL PRESERVE VISITOR CENTER BETWEEN THE HOURS OF 8:30 A.M. AND 4:00 P.M., SEVEN DAYS A WEEK.

ADDITIONAL INFORMATION CAN BE OBTAINED BY CONTACTING THE CHIEF RANGER'S OFFICE AT 813-696-2000 EXTENSION 17.

AUTHORITY: TITLE 36 CFR 1.6(a)(1)



Wallace A. Hibbard
WALLACE A. HIBBARD, SUPERINTENDENT

BIG CYPRESS NATIONAL PRESERVE

ATTENTION HUNTERS AND OFF-ROAD VEHICLE OWNERS

THE NATIONAL PARK SERVICE HAS ESTABLISHED FURTHER PUBLIC USE LIMITS AND CONTROLS UNTIL WATERS RECEDE TO ACCEPTABLE LEVELS.

**EFFECTIVE 12:01 A.M. NOVEMBER 23, 1994
UNTIL FURTHER NOTICE:**

1. THE STAIRSTEPS, CORNDANCE, TURNER RIVER, AND LOOP ROAD UNITS WILL BE CLOSED TO HUNTING AND OFF-ROAD VEHICLE USE.
2. THE BEAR ISLAND UNIT WILL BE OPEN TO HUNTING. YOU MAY USE BUGGIES, ALL TERRAIN VEHICLES, AND STREET LEGAL 4X4 VEHICLES. THE UNIT IS CLOSED TO AIRBOAT USE.
3. THE DEEP LAKE UNIT IS OPEN TO BOW-HUNTING AND CLOSED TO ALL OFF-ROAD VEHICLE USE.

MANAGEMENT UNIT	TYPE OF USE				
	HUNTING	AIRBOATS WITH ORV PERMIT	BUGGIES WITH ORV PERMIT	ATV/ATC WITH ORV PERMIT	STREET LEGAL 4X4 WITH ORV PERMIT
STAIRSTEPS	NO	NO	NO	NO	NO
LOOP ROAD	NO	NO	NO	NO	NO
CORNDANCE	NO	NO	NO	NO	NO
BEAR ISLAND	YES	NO	YES ON DESIGNATED TRAILS ONLY	YES ON DESIGNATED TRAILS ONLY	YES ON DESIGNATED TRAILS ONLY
TURNER RIVER	NO	NO	NO	NO	NO
DEEP LAKE	YES	NO	NO	NO	NO

ONLY PROPERTY OWNERS OF RECORD MAY ACCESS THEIR PROPERTY VIA THE MOST DIRECT ROUTE TO AND FROM A RECOGNIZED ACCESS. ALL GUESTS TO A PROPERTY MUST BE ACCOMPANIED BY THE LAND OWNER.

INDIVIDUALS THAT HAVE TEMPORARY HUNTING CAMPS SET UP FOR THE HUNTING SEASON CAN CALL (813)695-4111. BETWEEN 8:30A.M. TO 4:00 P.M., SEVEN DAYS A WEEK TO MAKE ARRANGEMENTS FOR THE REMOVAL OF THE PROPERTY.

THIS TEMPORARY CLOSURE DOES NOT AFFECT THE OPERATION OF OFF-ROAD VEHICLES ON PRIVATE PROPERTY.

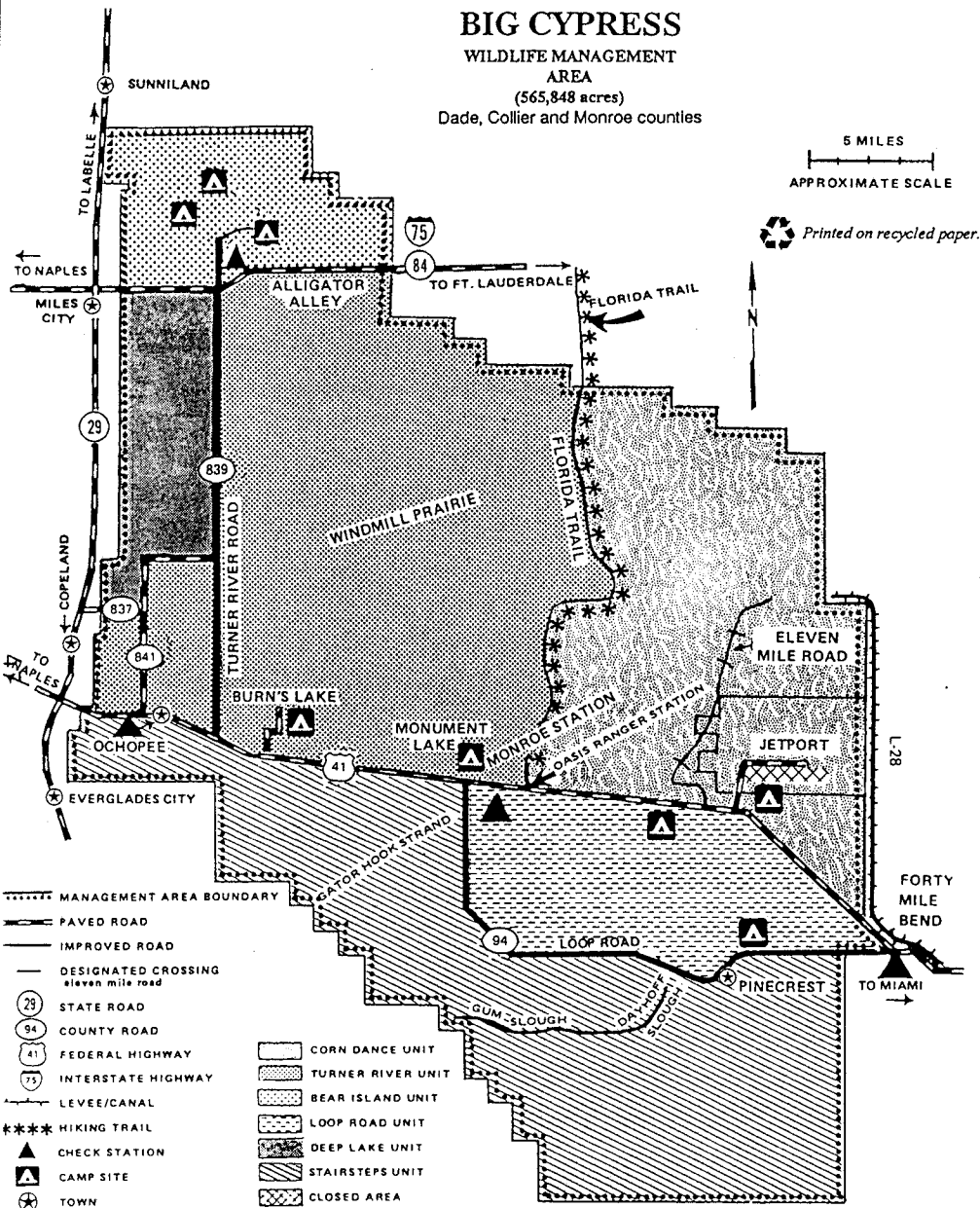
ALL OFF-ROAD VEHICLES MUST BE REGISTERED WITH THE NATIONAL PARK SERVICE AND HAVE A BIG CYPRESS ORV PERMIT TO OPERATE WITHIN BIG CYPRESS NATIONAL PRESERVE. PERMITS ARE AVAILABLE AT THE BIG CYPRESS NATIONAL PRESERVE VISITOR CENTER BETWEEN THE HOURS OF 8:30 A.M. AND 4:00 P.M., SEVEN DAYS A WEEK.

ADDITIONAL INFORMATION CAN BE OBTAINED BY CALLING THE PRESERVE HEADQUARTERS (813)695-2000 EXTENSION 10.

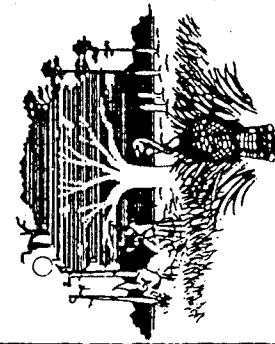
Wallace A. Hibbard



Appendix B. Big Cypress Wildlife Management Area Regulations, 1994-95.



BIG CYPRESS WILDLIFE MANAGEMENT AREA 1994-95 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. To make it easier to learn about regulation changes on this area, regulations that are new or differ substantially from last year are shown in bold print. Area users still should familiarize themselves with all regulations for the 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 for hunting and/or fishing. 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 12 through 20, November 21 through 27 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 8 through 16 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 shall have a National Park Service registration. 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 excepted for this wildlife management area. Hunting or the taking of wildlife or fish on this area shall be allowed only during the open seasons and in the manner set forth herein.

1. Driving a metal object into any tree or hunting from a tree into which a metal object has been driven is prohibited.
2. Constructing or erecting a permanent or semi-permanent structure is prohibited.
3. It is illegal to cut or damage cattle fences.
4. Wild hogs may not be transported alive.

Appendix B. Continued

5. 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.

6. It is unlawful for any person to leave any garbage or refuse or in any way litter in the management area.

7. Hunters using the Bear Island Unit shall enter and exit ONLY through the designated entry point at the north end of Turner River Road.

8. Entering any fenced area within the Jetport area is prohibited.

9. The wanton or willful waste of wildlife is prohibited.

10. The removal of any plant is prohibited.

11. 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.

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

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

14. Taking fox is prohibited.

15. Taking fox squirrel is prohibited.

16. Taking any turkey while it is on the roost is prohibited.

17. Killing swimming deer is prohibited.

18. Taking or attempting to take game with the aid of live decoys, traps, snares, nets, drugs, lights or recorded game calls is prohibited.

19. 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.

20. 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:

21. 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).

22. Hunting with gun and light is prohibited.

23. 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.

24. The use of guns other than muzzleloading guns or bow and arrow in the Deep Lake Unit is prohibited.

25. 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.

26. 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.

27. 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.

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

29. 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.

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

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

32. 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.

33. 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.

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

35. 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 vehicle use regulations prior to your use of the preserve.

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

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

38. 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 9-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. In management units other than Deep Lake and Loop Road Units vehicles shall not be operated off designated roads and trails or outside designated vehicle access areas; however, if vehicle access trails or areas have not been designated, vehicles may be operated throughout the unit.

39. All airboats used for taking wildlife, frogs or fish or for other recreational use must fly an orange flag at least 10 inches wide by 12 inches long at least 10 feet above the bottom of the vessel.

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

41. 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.

42. 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:

43. Camping on the Bear Island Unit is permitted only at designated campsites by the use of tents, trailers or self-propelled camping vehicles. Camping is permitted on designated campsites on other units. Primitive camping is not limited to designated campsites except on Bear Island.

CHECK STATIONS:

44. 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. A check station pass, issued at the check station, shall be retained in possession while hunting.

45. 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.

46. 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:

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

ARCHERY:

September 3 through October 2, in all units and November 12 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 12-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 8 through 23, 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 12 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 8.

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. The use of guns other than muzzleloading guns or bow and arrow in the Deep Lake unit is prohibited.

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

SPRING TURKEY:

March 4 through April 9.

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. The use of guns other than muzzleloading guns or bow and arrow in the Deep Lake unit is prohibited.

3. No person shall possess any dog, except 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 (800) 955-8771 (TDD)).

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.

The project described in this publication is part of a program funded by federal dollars under the Wildlife Restoration Act. Federal funds pay \$2,355,783, or 74 percent of the cost of the program.

Appendix C. Deer survey data, Big Cypress National Preserve, 1984-1994.

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

Survey Date	Transect Number	1	2	3	Day 4	5	6	7	Total	Mean
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
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 C., Table A. continued

Survey Date	Transect Number	1	2	3	Day		6	7	Total	Mean
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 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

Appendix C., Table A. continued

Survey Date	Transect Number	1	2	3	Day 4	5	6	7	Total	Mean
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
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

Appendix C., Table A. continued

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

Appendix C. Continued

Table B. Number of deer observed per mile during aerial surveys of the eastern Stairsteps unit, 1984-1994.

Survey	Transect Number	Left Observer	Right Observer	Total Deer	Average Deer/mile
Pre-hunt	1	0	10	10	1.03
August 1984	2	0	3	3	0.31
	3	1	2	3	0.31
	4	0	2	2	0.21
				18	0.46
Pre-hunt	1 (55)	0	1	1	0.16
August 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	1 (55)	0	0	0	0.00
February 1986	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)

Appendix C., Table B. continued

Survey	Transect Number	Left Observer	Right Observer	Total deer	Average Deer/mile
Pre-hunt	1 (55)	0	0	0	0.00
August 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)
Pre-hunt	1 (55)	0	1	1	0.16
August 1986	2	2	0	2	0.32
(2 of 2)	4	7	9	16	1.83
	5	0	3	3	0.30
	6	0	2	2	0.20
	7	1	1	2	0.18
	8 (62)	3	4	7	0.63
				33	0.52 (e)
Post-hunt	1 (55)	0	0	0	0.00
February 1987	2	0	0	0	0.00
	3	0	0	0	0.00
	4	4	3	7	0.80
	5	4	0	4	0.40
	6	3	2	5	0.51
	7	3	0	3	0.27
	8 (62)	6	0	6	0.54
				25	0.39 (f)

Appendix C., Table B. continue

Survey	Transect Number	Left Observer	Right Observer	Total Deer	Average Deer/mile
Annual	1 (55)	0	0	0	0.00
May 1987	2	2	0	2	0.32
(1 of 2)	3	0	0	0	0.00
	4	0	1	1	0.11
	5	0	0	0	0.00
	6	0	0	0	0.00
	7	0	0	0	0.00
	8 (62)	0	1	1	0.09
				4	0.06 (g)
Annual	1 (55)	0	0	0	0.00
May 1987	2	0	0	0	0.00
(2 of 2)	3	0	0	0	0.00
	4	1	0	1	0.11
	5	0	0	0	0.00
	6	1	0	1	0.10
	7	0	0	0	0.00
	8 (62)	0	0	0	0.00
				2	0.03 (h)
Annual	1 (55)	0	1	1	0.22
May 1988	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)

Appendix C., Table B. continued

Survey	Transect Number	Left Observer	Right Observer	Total Deer	Average Deer/mile
Annual	1 (55)	0	9	9	1.96
June 1989	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	1 (55)	1	0	1	0.20
June 1990	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	1 (55)	0	2	2	0.40
June 1991	2	2	1	3	0.41
(1 of 2)	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 C., Table B. continued

Survey	Transect Number	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 (m)
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 (n)
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 (o)

Appendix C., Table B. continued

Survey	Transect Number	Left Observer	Right Observer	Total Deer	Average Deer/mile
Annual	1 (55)	0	1	1	0.20
June 1993	2	0	0	0	0.00
(1 of 2)	3	0	2	2	0.25
	4	6	0	6	0.75
	5	0	10	10	1.21
	6	0	3	3	0.33
	7	0	0	0	0.00
	8 (62)	0	2	2	0.22
				24	0.37 (p)
Annual	1 (55)	0	0	0	0.00
June 1993	2	0	0	0	0.00
(2 of 2)	3	1	0	1	0.12
	4	1	0	1	0.12
	5	1	5	6	0.72
	6	0	0	0	0.00
	7	0	0	0	0.00
	8 (62)	1	0	1	0.11
				9	0.14 (q)
Annual	1 (55)	0	0	0	0.00
June 1994	2	0	0	0	0.00
(1 of 2)	3	0	0	0	0.00
	4	0	6	6	0.75
	5	0	0	0	0.00
	6	1	0	1	0.11
	7	1	0	1	0.10
	8 (62)	4	0	4	0.41
				12	0.18 (r)

Appendix C., Table B. continued

Survey	Transect Number	Left Observer	Right Observer	Total Deer	Average Deer/mile
Annual	1 (55)	0	0	0	0.00
June 1994	2	0	0	0	0.00
(2 of 2)	3	0	0	0	0.00
	4	1	0	1	0.12
	5	1	2	3	0.37
	6	3	1	4	0.43
	7	2	5	7	0.71
	8 (62)	1	0	1	0.10
				16	0.24 (s)

(a) Density estimates based on 10% 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: $.46 \text{ deer}/72.7 \text{ acres} \times 1/.40 = 1 \text{ deer}/63 \text{ acres}.$

(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: $.38 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/83 \text{ acres}.$

Appendix C., Table B. continued

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

1. 100% of animals observed: $.44 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/180 \text{ acres}.$
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: $.52 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/61 \text{ acres}.$

(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: $.39 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/80 \text{ acres}.$

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

1. 100% of animals observed: $.06 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/1,322 \text{ acres}.$
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: $.03 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/2,643 \text{ acres}.$
2. 50% of animals observed: $.03 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/1,322 \text{ acres}.$
3. 40% of animals observed: $.03 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/1,057 \text{ acres}.$

Appendix C., Table B. continued

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

1. 100% of animals observed: $.77 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/103 \text{ acres}.$
2. 50% of animals observed: $.77 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/51 \text{ acres}.$
3. 40% of animals observed: $.77 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/41 \text{ acres}.$

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

1. 100% of animals observed: $.96 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/83 \text{ acres}.$
2. 50% of animals observed: $.96 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/41 \text{ acres}.$
3. 40% of animals observed: $.96 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/33 \text{ acres}.$

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

1. 100% of animals observed: $.35 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/227 \text{ acres}.$
2. 50% of animals observed: $.35 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/113 \text{ acres}.$
3. 40% of animals observed: $.35 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/91 \text{ acres}.$

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

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

(m) 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: $.44 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/72 \text{ acres}.$

Appendix C., Table B. continued

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

1. 100% of animals observed: $.23 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/345 \text{ acres}.$
2. 50% of animals observed: $.23 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/173 \text{ acres}.$
3. 40% of animals observed: $.23 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/138 \text{ acres}.$

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

1. 100% of animals observed: $.05 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/1586 \text{ acres}.$
2. 50% of animals observed: $.05 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/795 \text{ acres}.$
3. 40% of animals observed: $.05 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/636 \text{ acres}.$

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

1. 100% of animals observed: $.37 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/214 \text{ acres}.$
2. 50% of animals observed: $.37 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/107 \text{ acres}.$
3. 40% of animals observed: $.37 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/86 \text{ acres}.$

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

1. 100% of animals observed: $.14 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/566 \text{ acres}.$
2. 50% of animals observed: $.14 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/283 \text{ acres}.$
3. 40% of animals observed: $.14 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/226 \text{ acres}.$

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

1. 100% of animals observed: $.18 \text{ deer}/79.3 \text{ acres} \times 1/1.00 = 1 \text{ deer}/441 \text{ acres}.$
2. 50% of animals observed: $.18 \text{ deer}/79.3 \text{ acres} \times 1/.50 = 1 \text{ deer}/220 \text{ acres}.$
3. 40% of animals observed: $.18 \text{ deer}/79.3 \text{ acres} \times 1/.40 = 1 \text{ deer}/176 \text{ acres}.$

Appendix C., Table B. continued

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

1. 100% of animals observed: $.24 \text{ deer}/79.3 \text{ acres} \times 1/1.00 =$
1 deer/330 acres.
2. 50% of animals observed: $.24 \text{ deer}/79.3 \text{ acres} \times 1/.50 =$
1 deer/165 acres.
3. 40% of animals observed: $.24 \text{ deer}/79.3 \text{ acres} \times 1/.40 =$
1 deer/132 acres.

Appendix D. Summary of vehicle surveys conducted on Big Cypress National Preserve during selected hunting seasons, 1983-1995.

Vehicles Only

	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94g	94-95i
ARCHERY												
Opening weekend	52a	141	90	91	140	109	109	99	131	57	111	126
1st week	41a	74	60	42	58	100	49	71	48	37	46	55
2nd week	63a	61	45	58	52	80	54	43	71	38	41	52
3rd week	36a	79	56	56	49	67	64	53	32	41	30	63
4th week								51	31	20f	21	29
MUZZLELOADING												
Opening weekend	196	179	111d	155	104	178	137	133	137	115f	110	126
1st week	75b	121	71	110	81	150	68	74	90f	77f	55	81
2nd week	82b	97	81	103	90	141	78	82	69	63f	65	101
GENERAL GUN												
Opening weekend	367	406	348	371	389	422	373	285	300	202f	259	178
Midweek	112	53	49									
1st week	204b	242	179	224	208	235	176	244	165f	104f	143	58
2nd week	272a	307	171	152	139	289	220	98	168f	145f	150	38
3rd week	172	206	250	210	181	190	227	204	110f	133f	118	32
4th week	103a	225	137	141	114	306	369	217	109f	110f	109	32
5th week	104a	177	105	126	125	190	242	204	93f	95f	100	31
6th week	81	138	78	115	126	194	218	200	141f	106f	13h	5
7th week	88a	245	167	182	138	179	194	145	e	e	149	10
8th week	231	338	249	247	234	92	147					

ATC

	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94g	94-95i
ARCHERY												
Opening weekend	41a	56	21	6	2	4	6	6	9	19	17	30
1st week	18a	18	4	3	2	2	0	5	10	4	11	14
2nd week	26a	36	2	8	2	1	1	4	7	5	5	16
3rd week	22a	29	9	3	6	4	0	6	12	5	10	18
4th week								3	8	8f	6	19
MUZZLELOADING												
Opening weekend	85	54	10d	6	1	2	4	10	17	22f	16	19
1st week	12b	48	9	3	0	6	2	6	20f	22f	17	23
2nd week	28b	31	7	6	0	4	1	5	15	10f	14	21
GENERAL GUN												
Opening weekend	142	134	41	34	11	34	14	14	60	71f	57	16
Midweek	24	28	12									
1st week	98b	66	33	18	4	15	17	19	27f	35f	26	13
2nd week	90a	96	10	6	0	9	13	6	41f	51f	37	25
3rd week	84	69	17	21	2	7	8	11	39f	33f	29	7
4th week	55a	63	10	4	2	19	24	53	25f	32f	41	12
5th week	33a	52	9	3	4	3	5	9	18f	17f	20	9
6th week	13	55	4	6	8	3	9	11	29f	32f	5h	2
7th week	24a	89	7	5	2	7	6	14	e	e	45	5
8th week	109	79	10	7	0	16	3					

SWAMP BUGGY

	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94g	94-95i
ARCHERY												
Opening weekend	22a	32	38	32	53	45	63	51	58	43	53	59
1st week	14a	19	18	11	29	33	28	34	24	33	26	28
2nd week	24a	13	21	17	16	37	44	33	31	38	22	35
3rd week	11a	23	29	28	26	34	48	24	20	35	36	20
4th week								24	22	25f	32	16
MUZZLELOADING												
Opening weekend	84	87	39d	73	71	100	104	65	70	77f	83	73
1st week	17b	53	55	48	54	67	69	48	81f	63f	48	47
2nd week	41b	43	38	42	61	64	50	33	41	46f	45	52
GENERAL GUN												
Opening weekend	164	219	157	165	191	246	174	143	116	114f	123	103
Midweek	60	61	61									
1st week	60b	94	91	107	132	96	125	97	67f	78f	58	57
2nd week	96a	87	60	58	80	124	114	42	86f	82f	81	34
3rd week	65	64	110	79	121	60	89	63	75f	84f	66	25
4th week	56a	68	49	60	75	122	180	69	56f	69f	75	14
5th week	31a	59	50	56	67	69	107	61	42f	71f	61	14
6th week	19	43	45	53	53	103	97	68	78f	83f	8h	3
7th week	36a	93	67	74	62	107	82	31	e	e	82	8
8th week	112	93	92	102	84	53	50					

AIRBOAT

	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94g	94-95i
ARCHERY												
Opening weekend	10a	4	5	2c	12c	15c	32c	2c	7	2	8	22
1st week	8a	7	12	4c	0c	9c	17c	8c	2	1	7	6
2nd week	0a	6	4	17c	19c	25c	29c	7c	2	3	6	23
3rd week	7a	10	0	15c	0c	5c	15c	8c	8	0	6	11
4th week								4c	0	3f	16	15
MUZZLELOADING												
Opening weekend	26	19	9d	7c	15c	13c	23c	6c	8	9f	4	16
1st week	10b	12	7	6c	28c	31c	17c	13c	9f	8f	12	25
2nd week	26b	9	7	6c	8c	47c	40c	4c	5	9f	24	15
GENERAL GUN												
Opening weekend	140	140	128	114c	146c	227c	222c	82c	101	90f	123	5
Midweek	50	24c	29c									
1st week	39b	57	32	50c	74c	89c	103c	8c	55f	38f	81	0
2nd week	5a	30	21	29c	36c	55c	44c	0c	34f	37f	70	2
3rd week	31	26	2	32c	46c	44c	37c	0c	26f	81f	42	0
4th week	22a	31	16	18c	35c	41c	103c	0c	18f	35f	28	0
5th week	24a	7	11	12c	21c	53c	57c	6c	36f	23f	20	0
6th week	9	15	10	17c	28c	31c	18c	0c	28f	59f	6h	0
7th week	10a	16	18	31c	36c	38c	26c	0c	e	e	53	0
8th week	46	33	12	56c	62c	20c	11c					

TOTALS

	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94g	94-95i
ARCHERY												
Opening weekend	125a	212	154	131	207	173	210	158	205	121	189	237
1st week	81a	118	94	60	89	144	94	118	84	75	90	103
2nd week	113a	116	72	100	89	143	128	87	111	84	74	142
3rd week	76a	141	94	102	81	110	127	91	72	81	82	112
4th week								82	61	56f	75	79
MUZZLELOADING												
Opening weekend	391	339	169d	241	191	293	268	214	232	223f	213	234
1st week	114b	234	142	167	163	254	156	141	200f	170f	132	176
2nd week	177b	180	133	157	159	256	169	124	130	128f	148	189
GENERAL GUN												
Opening weekend	813	899	674	684	737	929	783	524	577	477f	562	302
Midweek	246	166	151									
1st week	401b	459	335	399	418	435	421	368	314f	255f	308	128
2nd week	463a	520	262	245	255	476	391	146	329f	315f	338	99
3rd week	352	365	379	342	350	301	361	278	250f	331f	255	66
4th week	236a	387	212	223	226	488	676	339	208f	246f	253	58
5th week	192a	295	175	197	217	317	411	280	189f	206f	201	54
6th week	122	251	137	191	215	331	342	279	276f	280f	32h	10
7th week	158a	443	259	292	238	331	308	190	e	e	329	23
8th week	498	543	363	412	380	181	211					

- a) Excluding Loop Road, Pinecrest to Monroe Station; and/or County Roads 837 and 841; and/or U.S. 41 -TRR to west boundary, and/or Loop Road -40 Mile Bend to Pinecrest.
- b) Excluding several locations.
- c) Includes Mitchell's Landing.
- d) Main campground (Bear Island) not counted.
- e) No vehicle count-check in/out forms used to determine pressure.
- f) Excludes 31 MM at Alligator Alley (I-75).
- g) Excludes all Alligator Alley (I-75) segments.
- h) Survey occurred on Christmas Day.
- i) Stairsteps and Loop Units closed and Corn Dance and Turner River Units partially closed during General Gun season.
- All: Excluded S-12, S-12A and Bear Island other sites.

Appendix E. Summary of antler and morphologic data from bucks harvested on Big Cypress National Preserve during the 1994-95 season.

BIG CYPRESS		ZONE 1			ZONE 3				ZONE 4				ZONE 5	
		1.5	2.5	3.5	1.5	2.5	3.5	4.5+	1.5	2.5	3.5	4.5+	1.5	2.5
		YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-
		OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS	OLDS
BEAM	N	14.0	4.0	3.0	4.0	5.0	8.0	7.0	2.0	2.0	2.0	3.0	4.0	8.0
CIRC.	NMISS	1.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(CM):	MEAN	4.8	6.1	6.8	5.2	5.5	6.5	8.3	5.8	6.1	6.1	9.9	4.9	6.1
	STDERR	0.2	0.3	0.6	0.4	0.5	0.5	0.2	0.8	0.8	0.1	0.2	0.2	0.4
	MIN	4.0	5.3	5.6	4.5	3.6	4.5	7.6	5.0	5.3	6.0	9.5	4.5	4.5
	MAX	6.3	6.7	7.8	6.5	6.8	8.4	9.0	6.5	6.9	6.3	10.2	5.3	7.5
BEAM	N	15.0	4.0	3.0	4.0	5.0	8.0	7.0	2.0	2.0	2.0	3.0	4.0	8.0
LENGTH	NMISS	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(CM):	MEAN	14.3	18.9	19.2	16.4	22.8	23.6	35.1	17.6	20.8	22.1	41.1	14.8	20.3
	STDERR	1.0	4.8	5.3	2.7	2.3	2.9	2.6	1.6	7.3	5.4	0.7	1.0	2.0
	MIN	7.8	8.5	8.8	11.2	16.8	13.0	25.6	16.0	13.5	16.8	39.8	12.8	13.8
	MAX	21.0	31.4	25.8	23.5	27.0	34.2	44.2	19.3	28.1	27.5	42.3	17.5	31.8
INSIDE	N	12.0	4.0	3.0	3.0	4.0	6.0	6.0	2.0	2.0	2.0	3.0	4.0	8.0
SPRD.	NMISS	3.0	0.0	0.0	2.0	2.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
(CM):	MEAN	11.3	21.3	19.2	14.4	20.9	22.1	27.8	17.3	21.7	19.3	31.2	13.7	20.4
	STDERR	0.9	1.8	2.6	4.1	1.8	3.1	1.8	0.8	4.2	1.8	0.9	1.2	1.2
	MIN	6.0	17.0	14.0	9.2	16.2	12.5	23.5	16.5	17.5	17.5	30.2	11.2	15.0
	MAX	16.0	25.0	22.0	22.5	25.0	33.5	35.0	18.0	25.8	21.0	33.0	17.0	24.0
ANTLER	N	15.0	4.0	3.0	4.0	5.0	9.0	7.0	2.0	2.0	2.0	3.0	4.0	8.0
POINTS	NMISS	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MEAN	2.7	3.0	3.0	2.8	3.6	3.9	7.4	3.5	5.0	3.5	9.3	2.5	4.8
	STDERR	0.3	0.7	0.0	0.5	0.5	0.7	0.8	1.5	1.0	0.5	1.3	0.3	0.8
	MIN	2.0	2.0	3.0	2.0	2.0	2.0	4.0	2.0	4.0	3.0	8.0	2.0	2.0
	MAX	6.0	5.0	3.0	4.0	5.0	8.0	10.0	5.0	6.0	4.0	12.0	3.0	8.0
LIVE	N	14.0	4.0	3.0	1.0	3.0	6.0	3.0	2.0	2.0	2.0	3.0	2.0	6.0
WEIGHT	NMISS	1.0	0.0	0.0	4.0	3.0	3.0	4.0	0.0	0.0	0.0	0.0	2.0	2.0
(LBS):	MEAN	88.0	99.3	114.8	119.9	94.5	110.3	108.9	83.0	87.6	90.3	97.7	82.4	88.2
	STDERR	2.2	2.5	8.5	.	4.8	10.1	5.3	4.2	12.4	3.0	11.8	4.8	4.2
	MIN	69.1	93.3	100.0	119.9	85.0	87.2	99.3	78.8	75.2	87.2	75.2	77.6	69.1
	MAX	99.3	105.4	129.5	119.9	99.3	147.0	117.4	87.2	100.0	93.3	115.0	87.2	99.3
CONDITION	N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDEX:	NMISS	15.0	4.0	3.0	5.0	6.0	9.0	7.0	2.0	2.0	2.0	3.0	4.0	8.0
	MEAN	.	.	.	.	.	.	.	.	.	.	.	.	.
	STDERR	.	.	.	.	.	.	.	.	.	.	.	.	.
	MIN	.	.	.	.	.	.	.	.	.	.	.	.	.
	MAX	.	.	.	.	.	.	.	.	.	.	.	.	.

(CONTINUED)

Appendix E. Continued

BIG CYPRESS		ZONE 5		ZONE 6			
		3.5	4.5+	1.5	2.5	3.5	4.5+
		YEAR-	YEAR-	YEAR-	YEAR-	YEAR-	YEAR-
		OLDS	OLDS	OLDS	OLDS	OLDS	OLDS
BEAM	N	6.0	1.0	3.0	4.0	3.0	8.0
CIRC.	NMISS	0.0	0.0	0.0	0.0	0.0	0.0
(CM):	MEAN	7.7	7.5	5.7	5.6	6.4	8.3
	STDERR	0.8	.	0.2	0.4	0.8	0.4
	MIN	5.5	7.5	5.3	4.5	5.4	6.3
	MAX	10.5	7.5	6.0	6.0	8.0	9.8
BEAM	N	6.0	1.0	3.0	4.0	3.0	8.0
LENGTH	NMISS	0.0	0.0	0.0	0.0	0.0	0.0
(CM):	MEAN	28.5	28.8	18.7	20.2	23.7	33.1
	STDERR	2.2	.	1.7	2.9	3.2	2.2
	MIN	21.2	28.8	15.3	14.0	17.5	25.7
	MAX	36.0	28.8	20.8	26.8	28.1	46.0
INSIDE	N	6.0	1.0	3.0	3.0	2.0	7.0
SPRD.	NMISS	0.0	0.0	0.0	1.0	1.0	1.0
(CM):	MEAN	24.6	35.0	21.3	21.7	21.3	30.7
	STDERR	2.2	.	3.8	1.5	2.8	1.7
	MIN	15.5	35.0	14.0	19.0	18.5	26.5
	MAX	32.0	35.0	26.5	24.0	24.0	40.0
ANTLER	N	6.0	1.0	3.0	4.0	3.0	8.0
POINTS	NMISS	0.0	0.0	0.0	0.0	0.0	0.0
	MEAN	5.7	8.0	3.3	3.8	4.7	7.3
	STDERR	0.7	.	0.3	0.9	1.3	0.6
	MIN	4.0	8.0	3.0	2.0	2.0	5.0
	MAX	8.0	8.0	4.0	6.0	6.0	10.0
LIVE	N	3.0	1.0	2.0	1.0	1.0	3.0
WEIGHT	NMISS	3.0	0.0	1.0	3.0	2.0	5.0
(LBS):	MEAN	111.9	99.3	84.2	105.4	85.0	113.4
	STDERR	7.4	.	15.1	.	.	2.0
	MIN	99.3	99.3	69.1	105.4	85.0	111.4
	MAX	125.0	99.3	99.3	105.4	85.0	117.4
CONDITION	N	0.0	0.0	0.0	0.0	0.0	0.0
INDEX:	NMISS	6.0	1.0	3.0	4.0	3.0	8.0
	MEAN	.	.	.	.	.	.
	STDERR	.	.	.	.	.	.
	MIN	.	.	.	.	.	.
	MAX	.	.	.	.	.	.

Appendix E. Continued

BIG CYPRESS		ALL ZONES			
		1.5	2.5	3.5	4.5+
		YEAR-	YEAR-	YEAR-	YEAR-
		OLDS	OLDS	OLDS	OLDS
BEAM	N	27.0	23.0	22.0	19.0
CIRC.	NMISS	2.0	1.0	1.0	0.0
(CM):	MEAN	5.0	5.9	6.8	8.5
	STDERR	0.1	0.2	0.3	0.2
	MAX	6.5	7.5	10.5	10.2
	MIN	4.0	3.6	4.5	6.3
BEAM	N	28.0	23.0	22.0	19.0
LENGTH	NMISS	1.0	1.0	1.0	0.0
(CM):	MEAN	15.4	20.6	24.2	34.9
	STDERR	0.7	1.3	1.6	1.5
	MAX	23.5	31.8	36.0	46.0
	MIN	7.8	8.5	8.8	25.6
INSIDE	N	24.0	21.0	19.0	17.0
SPRD.	NMISS	5.0	3.0	4.0	2.0
(CM):	MEAN	13.8	21.0	22.0	30.0
	STDERR	1.0	0.7	1.3	1.0
	MAX	26.5	25.8	33.5	40.0
	MIN	6.0	15.0	12.5	23.5
ANTLER	N	28.0	23.0	23.0	19.0
POINTS	NMISS	1.0	1.0	0.0	0.0
	MEAN	2.8	4.0	4.3	7.7
	STDERR	0.2	0.4	0.4	0.4
	MAX	6.0	8.0	8.0	12.0
	MIN	2.0	2.0	2.0	4.0
LIVE	N	21.0	16.0	15.0	10.0
WEIGHT	NMISS	8.0	8.0	8.0	9.0
(LBS):	MEAN	88.1	93.2	107.2	105.9
	STDERR	2.5	2.6	5.0	4.0
	MAX	119.9	105.4	147.0	117.4
	MIN	69.1	69.1	85.0	75.2
CONDITION	N	0.0	0.0	0.0	0.0
INDEX:	NMISS	29.0	24.0	23.0	19.0
	MEAN	.	.	.	.
	STDERR	.	.	.	.
	MAX	.	.	.	.
	MIN	.	.	.	.

Appendix E. Continued

BIG CYPRESS		ZONE 1										ZONE 3							
												3.5							
												YEAR-							
												OLDS							

												ANTL-							
		1.5 YEAR-OLDS					2.5 YEAR-OLDS					ER	1.5 YEAR-OLDS		2.5 YEAR-OLDS				
												POIN-							
		ANTLER POINTS					ANTLER POINTS					TS	ANTLER POINTS		ANTLER POINTS				
		2	3	4	5	6	2	3	5	3	2	3	4	2	3	4			
BUCKS	N	10.0	2.0	1.0	1.0	1.0	2.0	1.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0			
	PCTN	66.7	13.3	6.7	6.7	6.7	50.0	25.0	25.0	100.0	50.0	25.0	25.0	20.0	20.0	40.0			

BIG CYPRESS		ZONE 3														
													ZONE 4			
2.5 YEAR-OLDS																
ANTLER POINTS		3.5 YEAR-OLDS					4.5+ YEAR-OLDS						1.5 YEAR-OLDS		2.5 YEAR-OLDS	
		ANTLER POINTS					ANTLER POINTS						ANTLER POINTS		ANTLER POINTS	
		5	2	3	4	5	8	4	5	8	9	10	2	5	4	6
BUCKS	N	1.0	3.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0
	PCTN	20.0	33.3	11.1	22.2	22.2	11.1	14.3	14.3	42.9	14.3	14.3	50.0	50.0	50.0	50.0

BIG CYPRESS		ZONE 4						ZONE 5									
		3.5 YEAR-OLDS		4.5+ YEAR-OLDS		1.5 YEAR-OLDS		2.5 YEAR-OLDS					3.5 YEAR-OLDS				
		ANTLER POINTS		ANTLER POINTS		ANTLER POINTS		ANTLER POINTS					ANTLER POINTS				
		3	4	8	12	2	3	2	3	4	7	8	4	5	6	7	
BUCKS	N	1.0	1.0	2.0	1.0	2.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	
	PCTN	50.0	50.0	66.7	33.3	50.0	50.0	12.5	25.0	25.0	25.0	12.5	33.3	16.7	16.7	16.7	

Appendix E. Continued

BIG CYPRESS	ZONE 5		ZONE 6													
	3.5	4.5+														
	YEAR-	YEAR-														
	OLDS	OLDS														
	ANTL-	ANTL-	1.5 YEAR-							3.5 YEAR-						
	ER	ER	OLDS							OLDS						
	POIN-	POIN-	ANTLER							ANTLER						
	TS	TS	POINTS							POINTS						
	8	8	3	4	2	3	4	6	2	6	5	6	7	8	10	
BUCKS	N	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0	3.0	1.0	
	PCTN	16.7	100.0	66.7	33.3	25.0	25.0	25.0	25.0	33.3	66.7	12.5	25.0	12.5	37.5	12.5

Appendix E. Continued

BIG CYPRESS		ZONE 1					ZONE 3							ZONE 4		
		ALL AGES					ALL AGES							ALL AGES		
		ANTLER POINTS					ANTLER POINTS							ANTLER POINTS		
		2	3	4	5	6	2	3	4	5	8	9	10	2	3	4
BUCKS	N	12.0	6.0	1.0	2.0	1.0	6.0	3.0	6.0	4.0	4.0	1.0	1.0	1.0	1.0	2.0
	PCTN	54.5	27.3	4.5	9.1	4.5	24.0	12.0	24.0	16.0	16.0	4.0	4.0	11.1	11.1	22.2

BIG CYPRESS		ZONE 4				ZONE 5								ZONE 6			
		ALL AGES				ALL AGES								ALL AGES			
		ANTLER POINTS				ANTLER POINTS								ANTLER POINTS			
		5	6	8	12	2	3	4	5	6	7	8	2	3	4	5	
BUCKS	N	1.0	1.0	2.0	1.0	3.0	4.0	4.0	1.0	1.0	3.0	3.0	2.0	3.0	2.0	1.0	
	PCTN	11.1	11.1	22.2	11.1	15.8	21.1	21.1	5.3	5.3	15.8	15.8	11.1	16.7	11.1	5.6	

BIG CYPRESS		ZONE 6			
		ALL AGES			
		ANTLER POINTS			
		6	7	8	10
BUCKS	N	5.0	1.0	3.0	1.0
	PCTN	27.8	5.6	16.7	5.6

Appendix E. Continued

BIG CYPRESS	ALL ZONES														
	1.5 YEAR-OLDS					2.5 YEAR-OLDS					3.5 YEAR-OLDS				
	ANTLER POINTS					ANTLER POINTS					ANTLER POINTS				
	2	3	4	5	6	2	3	4	5	6	7	8	2	3	4
BUCKS N	15.0	7.0	3.0	2.0	1.0	5.0	5.0	6.0	2.0	2.0	2.0	1.0	4.0	5.0	5.0
PCTN	53.6	25.0	10.7	7.1	3.6	21.7	21.7	26.1	8.7	8.7	8.7	4.3	17.4	21.7	21.7

BIG CYPRESS	ALL ZONES											
	3.5 YEAR-OLDS				4.5+ YEAR-OLDS							
	ANTLER POINTS				ANTLER POINTS							
	5	6	7	8	4	5	6	7	8	9	10	12
BUCKS N	3.0	3.0	1.0	2.0	1.0	2.0	2.0	1.0	9.0	1.0	2.0	1.0
PCTN	13.0	13.0	4.3	8.7	5.3	10.5	10.5	5.3	47.4	5.3	10.5	5.3

BIG CYPRESS	ALL ZONES										
	ALL AGES										
	ANTLER POINTS										
	2	3	4	5	6	7	8	9	10	12	
BUCKS N	24.0	17.0	15.0	9.0	8.0	4.0	12.0	1.0	2.0	1.0	
PCTN	25.8	18.3	16.1	9.7	8.6	4.3	12.9	1.1	2.2	1.1	