

2942.
Deer/Hog Harvest - GFC

Big Cypress Wildlife Management Area
Deer and Hog Annual Report, 1985-86

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J. L. Schortemeyer
and
J. W. McCown

Big Cypress Wildlife Management Area Deer and Hog Annual Report
1985-86

INTRODUCTION

Deer and wild hog are important game animals on the Big Cypress Wildlife Management Area (BCWMA). Deer and hog hunting constitutes a significant component of recreation on the area. Deer and hog are also important food items for the Florida panther. The purpose of this report is to provide census, harvest and biological information collected on these species during 1985-86 on BCWMA.

HUNTING

Hunts were held as scheduled with deer and hog hunting permitted during Archery, Muzzleloader, and General Gun hunts. In addition to statewide rules these hunts are governed by specific regulations for BCWMA (Appendix A). Significant changes were enacted for 1985-86 and are summarized on this report. In addition to regulation changes some data collection methods were modified and these are also discussed.

Several changes were enacted for the 1985-86 hunting season including reductions of quotas, restrictions on the use of dogs and the elimination of ATC's (All Terrain Cycles) for hunting.

Quotas for the first 9 days of the General Gun Season were reduced for the Stairsteps and Monument/Deep Lake Units. The Monument/Deep Lake quota was reduced from 1,500 to 1,000 for the first 9 days. In 1984-85 Stairsteps and Loop Road had a combined quota of 1,500. For 1985-86 a quota of 1,000 hunters was established for the Stairsteps Unit and a quota of 250 was set for Loop Road. The quota for the entire management area was reduced 23% from 3,250 to 2,500 hunters. A quota of 250 hunters remained in force for the first nine days of the muzzleloader season on the Bear Island Unit. This year only, permits were available on a first come first served basis, although the quota was never filled.

In addition to quota reductions, the use of dogs for hunting deer and hog was restricted on Monument, Deep Lake and Stairsteps Units to the first nine days of the General Gun Season. The use of dogs for hunting deer or hog was already prohibited on Bear Island and Loop Road. The Commission also banned the use of ATC's for hunting and fishing on the Big Cypress Wildlife Management Area.

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

Check stations were operated less intensively in 1985-86 than they were in 1984-85. Factors contributing to the decline in check station operations were restrictions limiting OPS check station operators to 40 hours of work per week and difficulties encountered in finding qualified applicants.

The Ochopee check station was eliminated because this station never checked a significant amount of game. The Oasis ranger station was operated as it has been in the past, generally from 8:00 AM to 4:30 PM. Hours of operation at Monroe Station and Forty-mile bend were reduced 43% and 41% respectively. Monroe Station was not operated at all during Muzzleloader season. Jetport operation was reduced 65% with no operation during the Archery or Muzzleloading hunts. Bear Island operation was reduced 15% overall with a significant reduction during Archery Season.

Environmental Conditions

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

The area showed normal patterns of inundation during 1985-86. Most of the area was dry at the onset of the rainy season in early June. In the middle and end of the rainy season wet conditions prevailed. In the middle and end of the dry season most of the area was dry or transitional indicating significantly lower water tables. Maps of surface water conditions were generated during monthly wading bird surveys flown over south Florida (Figs. 1-4). BCWMA is contained within Basins 18, 19 and 21 on these maps. Water conditions were described as wet, dry, and transitional. Generally if surface water was present over 90% of the area the area was placed in the wet category. When surface water was present on 5 to 90 percent of the area it was described as transitional and less than 5% was described as dry. Areas with greater than 10% of the area in upland habitat were classified as wet whenever 100% of the wetland areas were inundated. Figure 5 depicts actual water levels at the southern tip of the preserve at NPS gauge P-34. Water levels at this gauge also indicate water levels were in normal ranges with water levels slightly above average.

Fires burned less than 20,000 acres during 1985. Significant wildfires occurred in early June, 1985. The Pine-Oaks and Burns Lake fires were the most important and burned approximately 4,000 acres. Significant prescribed fires were conducted on prairies along Turner River Road and U.S. 41. Additional significant prescribed burns were conducted in the Bear Island Unit. A total of 29 lightning fires required suppression and these burned approximately 6,870 acres.

DEER CENSUS DATA

Bear Island

Deer track counts have been conducted on Bear Island since 1977 (Table 1).

Everglades and Big Cypress Hydropatterns JUNE 1985

- | | |
|--|-------------------------------------|
| 1. Water Conservation Area 1 | 12. Long Pine Key/So. Taylor Slough |
| 2. Water Conservation Area 2A | Mangrove Estuary |
| 3. Water Conservation Area 2B | 13. Cape Sable |
| 4. Water Conservation Area 3A N. | 14. Shark Slough Mangrove Estuary |
| 5. Water Conservation Area 3A S. | 15. Shark Slough |
| 6. Water Conservation Area 3B | 16. East Slough |
| 7. Northeast Shark Slough | 17. Big Cypress Mangrove Estuary |
| 8. Northern Taylor Slough | 18. Southern Big Cypress |
| 9. Long Pine Key/So. Taylor Slough | 19. Central Big Cypress |
| 10. Eastern Panhandle | 20. Mullet Slough |
| 11. Eastern Panhandle Mangrove Estuary | 21. Okaloacoochee Slough |

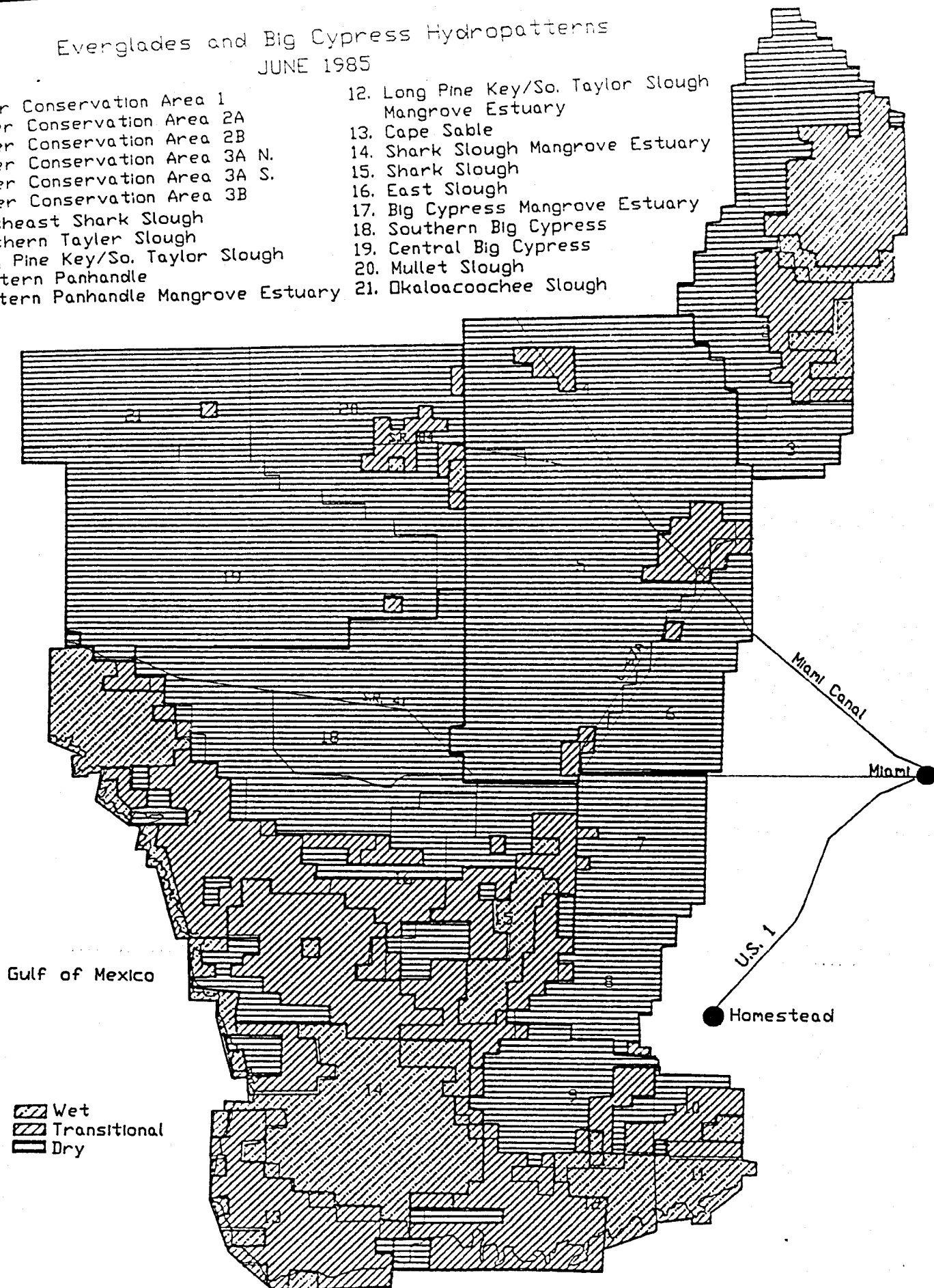


Figure 1. South Florida Hydropatterns for June 1985.

Everglades and Big Cypress Hydropatterns SEPTEMBER 1985

- | | |
|--|-------------------------------------|
| 1. Water Conservation Area 1 | 12. Long Pine Key/So. Taylor Slough |
| 2. Water Conservation Area 2A | Mangrove Estuary |
| 3. Water Conservation Area 2B | 13. Cape Sable |
| 4. Water Conservation Area 3A N. | 14. Shark Slough Mangrove Estuary |
| 5. Water Conservation Area 3A S. | 15. Shark Slough |
| 6. Water Conservation Area 3B | 16. East Slough |
| 7. Northeast Shark Slough | 17. Big Cypress Mangrove Estuary |
| 8. Northern Tayler Slough | 18. Southern Big Cypress |
| 9. Long Pine Key/So. Taylor Slough | 19. Central Big Cypress |
| 10. Eastern Panhandle | 20. Mullet Slough |
| 11. Eastern Panhandle Mangrove Estuary | 21. Okaloacoochee Slough |

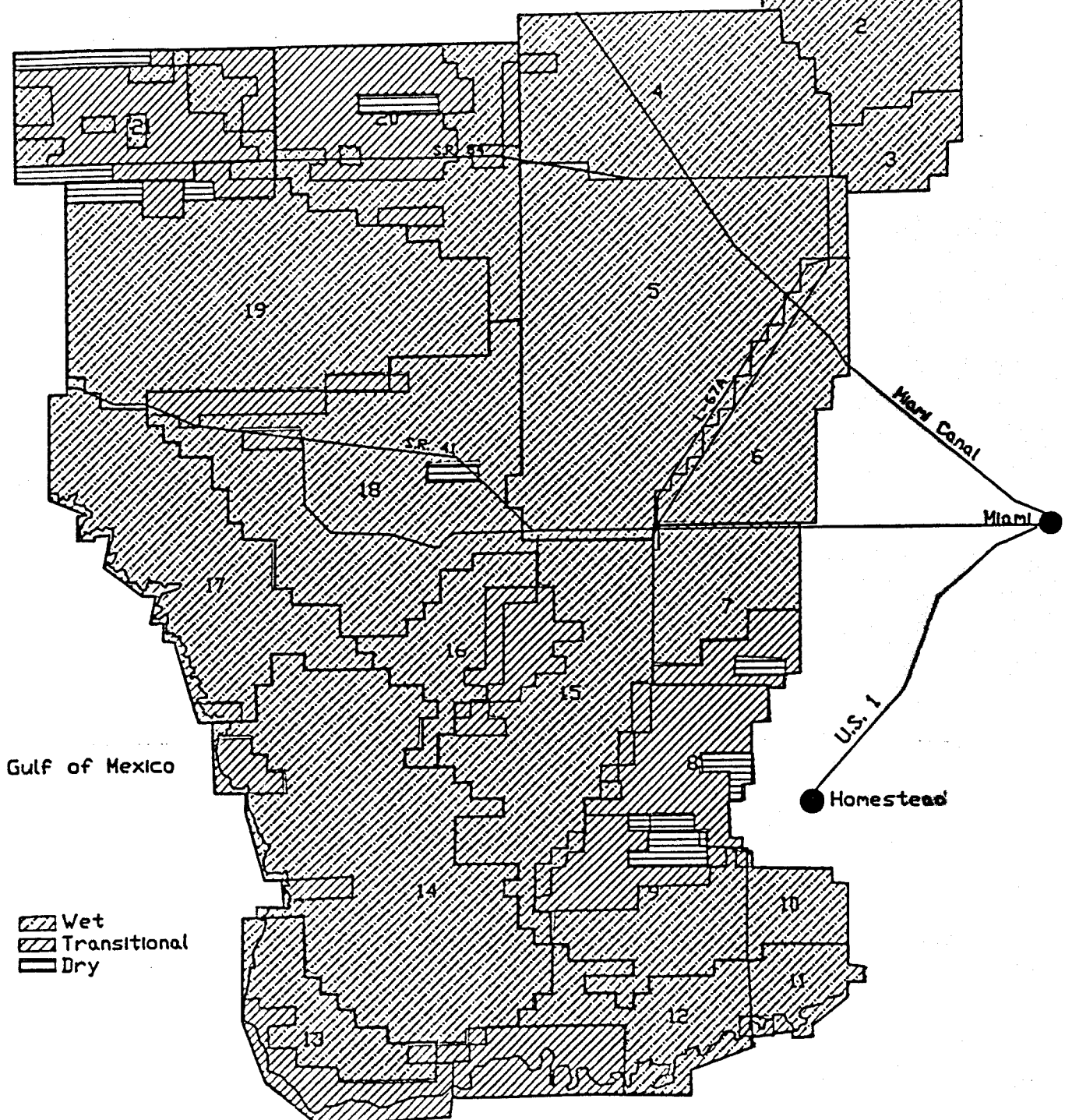


Figure 2. South Florida Hydropatterns for September 1985.

Everglades and Big Cypress Hydropatterns FEBRUARY 1986

- | | |
|--|-------------------------------------|
| 1. Water Conservation Area 1 | 12. Long Pine Key/So. Taylor Slough |
| 2. Water Conservation Area 2A | Mangrove Estuary |
| 3. Water Conservation Area 2B | 13. Cape Sable |
| 4. Water Conservation Area 3A N. | 14. Shark Slough Mangrove Estuary |
| 5. Water Conservation Area 3A S. | 15. Shark Slough |
| 6. Water Conservation Area 3B | 16. East Slough |
| 7. Northeast Shark Slough | 17. Big Cypress Mangrove Estuary |
| 8. Northern Taylor Slough | 18. Southern Big Cypress |
| 9. Long Pine Key/So. Taylor Slough | 19. Central Big Cypress |
| 10. Eastern Panhandle | 20. Mullet Slough |
| 11. Eastern Panhandle Mangrove Estuary | 21. Okaloacoochee Slough |

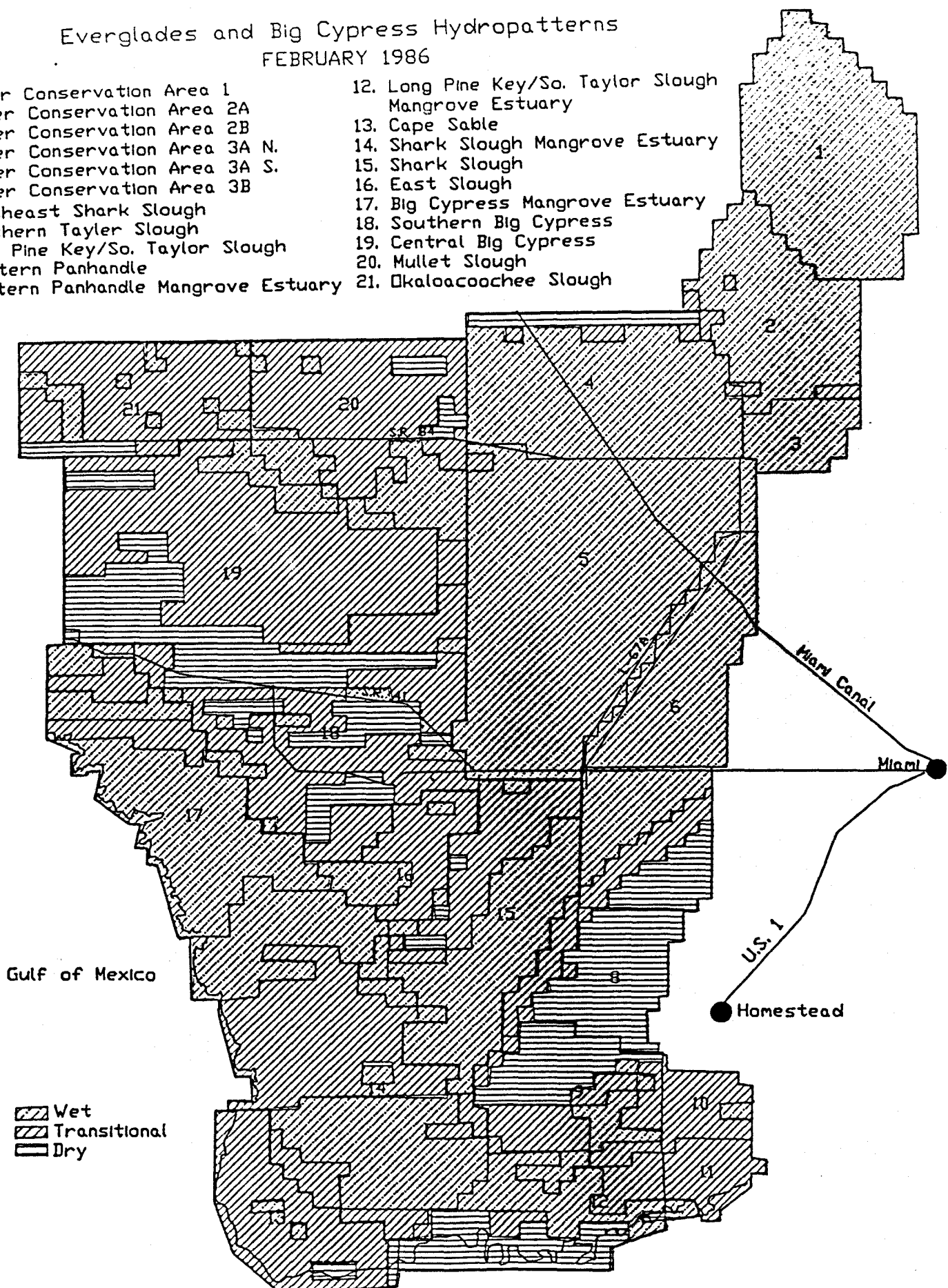


Figure 3. South Florida Hydropatterns for February 1986.

Everglades and Big Cypress Hydropatterns MAY 1986

- | | |
|--|-------------------------------------|
| 1. Water Conservation Area 1 | 12. Long Pine Key/So. Taylor Slough |
| 2. Water Conservation Area 2A | Mangrove Estuary |
| 3. Water Conservation Area 2B | 13. Cape Sable |
| 4. Water Conservation Area 3A N. | 14. Shark Slough Mangrove Estuary |
| 5. Water Conservation Area 3A S. | 15. Shark Slough |
| 6. Water Conservation Area 3B | 16. East Slough |
| 7. Northeast Shark Slough | 17. Big Cypress Mangrove Estuary |
| 8. Northern Tayler Slough | 18. Southern Big Cypress |
| 9. Long Pine Key/So. Taylor Slough | 19. Central Big Cypress |
| 10. Eastern Panhandle | 20. Mullet Slough |
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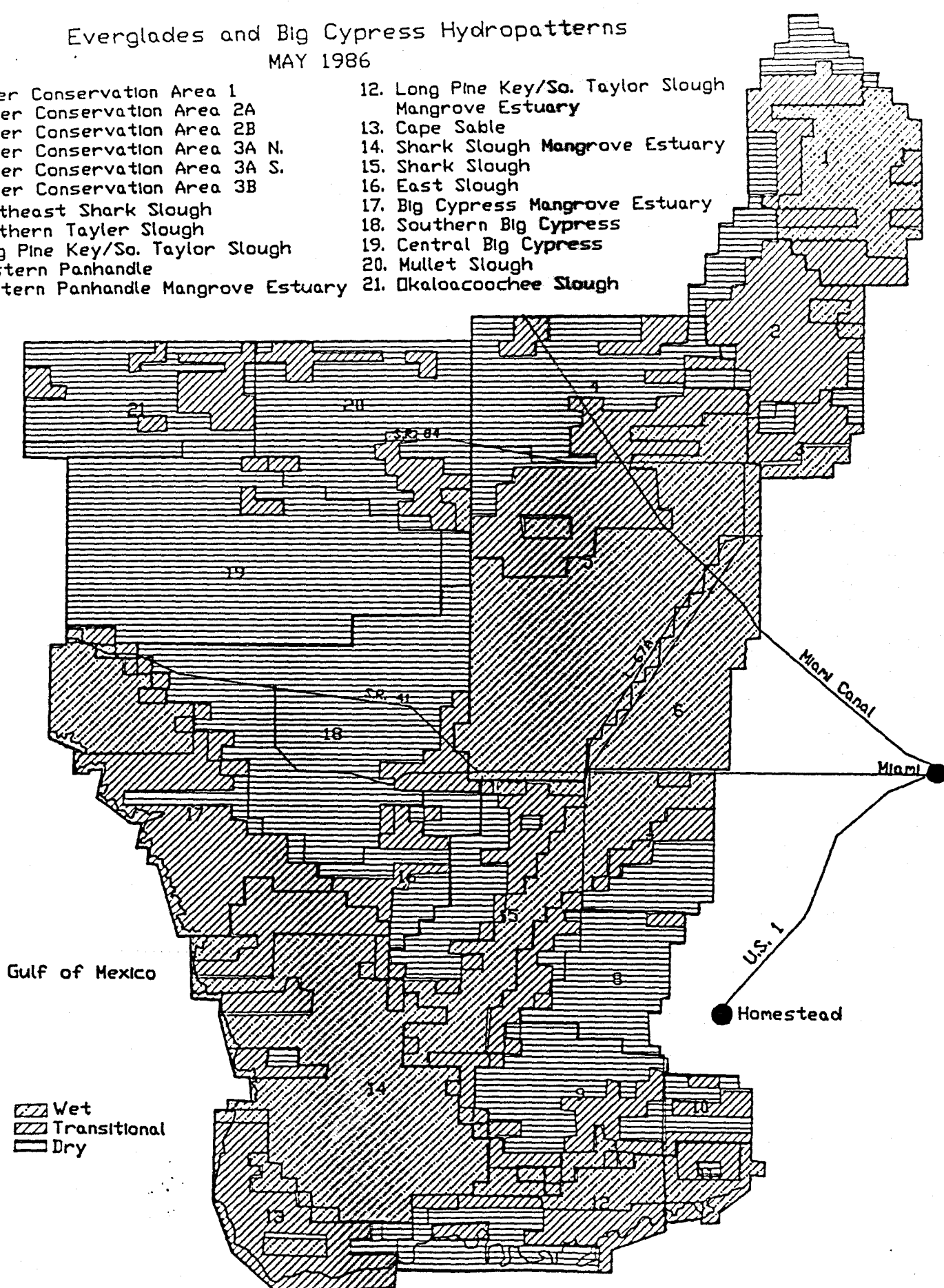


Figure 4. South Florida Hydropatterns for May 1986.

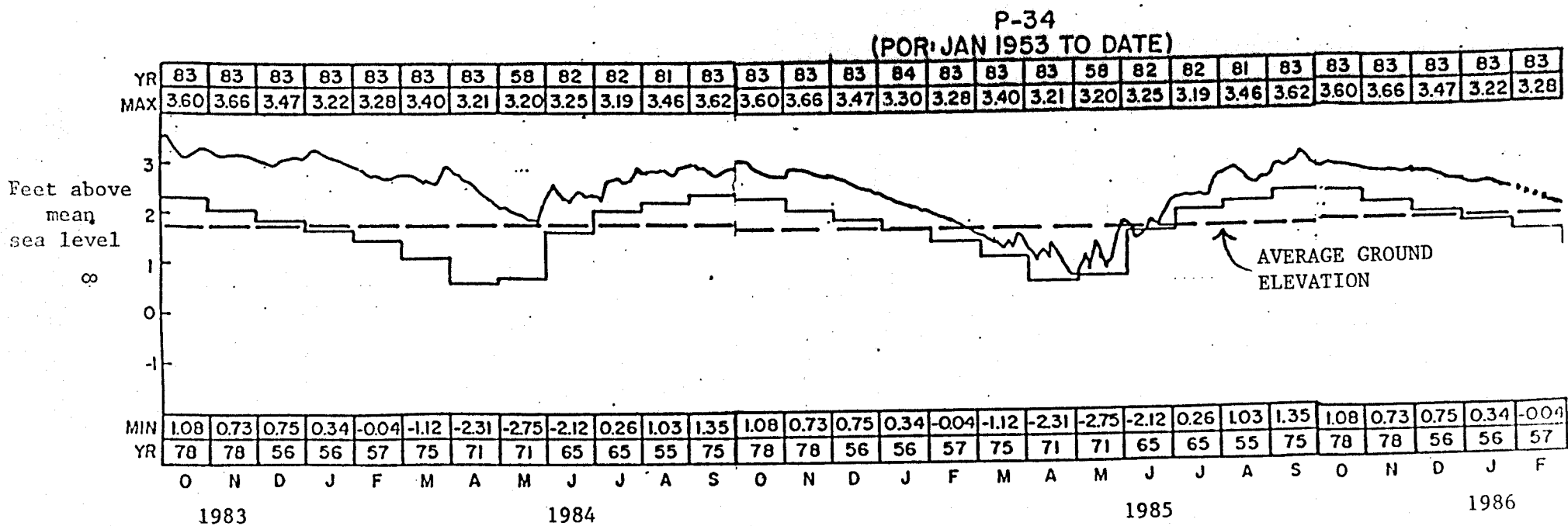


Figure 5. Water levels at National Park Service gauge P-34 adjacent to Stairsteps Unit, Big Cypress National Preserve, 1983-1986.

Table 1. Population estimates for white-tailed deer in the Bear Island Unit of the BCNP/WMA based on track count surveys, 1977 - 1986.

(Size of unit used for calculations - 36,500 acres)

TIME OF SURVEY	SOURCE	POPULATION ESTIMATE	DENSITY (deer:acre)
1985-86 Post hunt	Schortemeyer & Ramsey 1986	128-187	1:285-195
1985-86 Pre hunt	Schortemeyer & Ramsey 1986	513-842	1:71-43
1984-85 Post hunt (2 of 2)	Schortemeyer & Ramsey 1985	81-104	1:451-351
1984-85 Post hunt (1 of 2)	Schortemeyer & Ramsey 1985	62-123	1:589-297
1984-85 Pre hunt	Schortemeyer 1984	160-410	1:228-89
1983-84 Post hunt	McGrady & Jansen 1984 Bear Island Deer Track Counts	100	1:365
1983-84 Pre hunt	McGrady & Jansen 1984 Bear Island Deer Track Counts	461	1:79
1982-83 Post hunt	Pylant, memo, 11 April 1983 (Appendix F)	600	1:60
1982-83 Pre hunt	Pylant, memo, 30 Sept. 1982 (Appendix E)	713	1:51
1981-82 Post hunt	Pylant, memo, 21 April 1982 (Appendix D)	508	1:72
1980-81 Post hunt	Pylant, memo, 28 Dec. 1981 (Appendix A)	584	1:62

Table 1. continued

TIME OF SURVEY	SOURCE	POPULATION ESTIMATE	DENSITY (deer:acre)
1979-80 Post hunt	Pylant, memo, 28 Dec. 1981 (Appendix A)	630	1:60
1978-79 Post hunt	Pylant, memo, 28 Dec. 1981 (Appendix A)	627	1:58
1977-78 Post hunt	Pylant, memo, 28 Dec. 1981 (Appendix A)	656	1:56
"	Bowman, memo, 9 June 1978 (Appendix B)	657	1:56

PLEASE:

LEAVE GATES AS YOU FIND THEM.

RECYCLE ALUMINUM CANS AT DESIGNATED SITES.

BEAR ISLAND UNIT

BIG CYPRESS WILDLIFE MANAGEMENT AREA

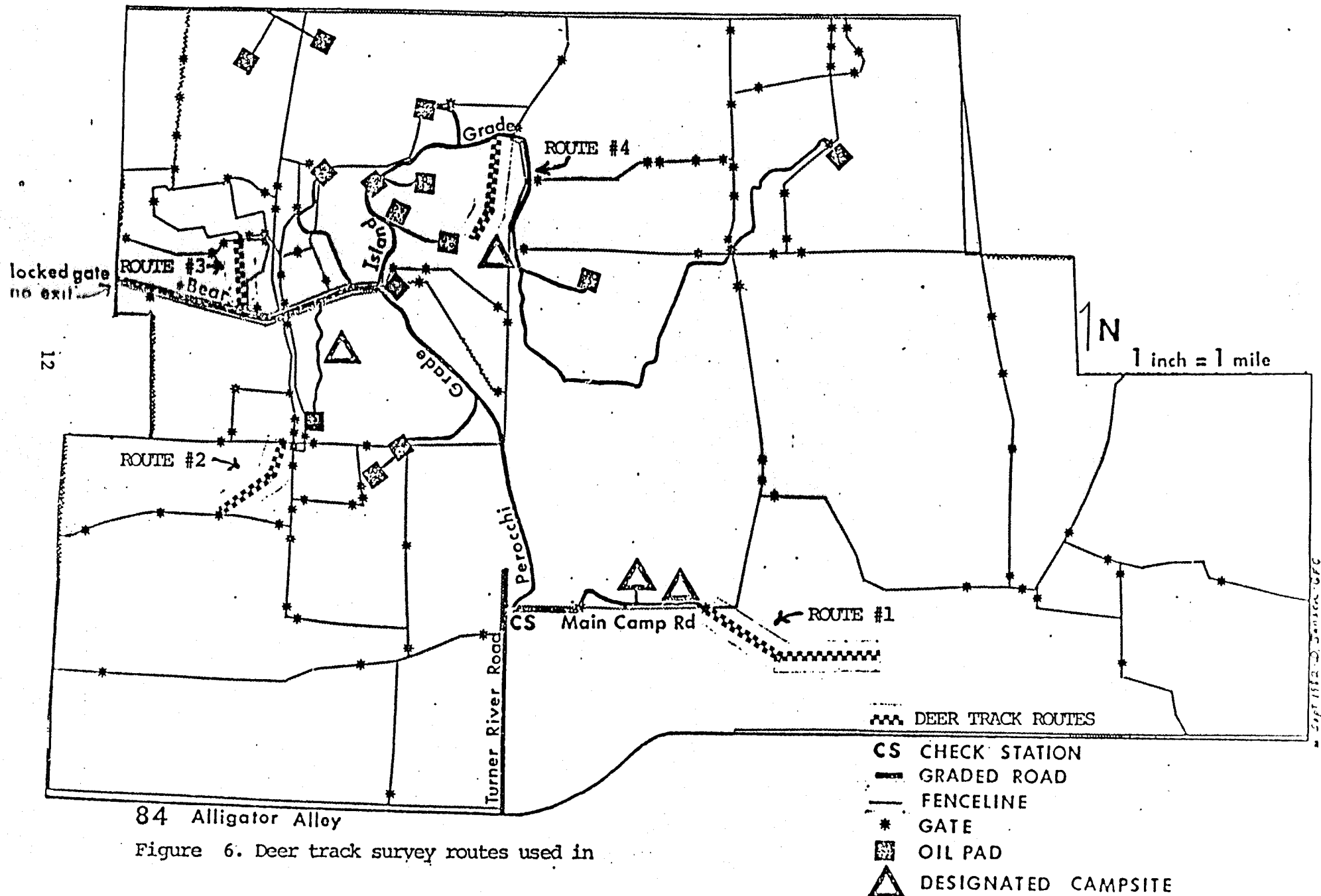


Table 2. Number of deer tracks observed by transect and survey, Bear Island Unit, 1985-86.

Survey	Transect #	Number of Deer Tracks by Day			Total	Mean
		1	2	3		
Pre-hunt Aug. 1984	1	2	6	6	14	4.7
	2	2	2	5	9	3.0
	3	0	0	0	0	0.0
	4	3	6	1	10	3.3
					33(a)	2.75
Post-hunt Feb. 1985 1 of 2	1	0	0	3	3	1.0
	2	2	2	0	4	1.3
	3	0	0	1	1	0.3
	4	2	2	1	5	1.7
					13(b)	1.1
Post-hunt Feb. 1985 2 of 2(c)	1	4	2	0	6	2.0
	2	0	1	2	3	1.0
	3	0	0	0	0	0.0
	4	3	2	3	8	2.7
					17(d)	1.4
Pre-hunt Sept. 1985(c)	1	1	7	4	12	4.0
	2	2	8	5	15	5.0
	3	2	5	4	11	3.7
	4	23	30	22	75	25.0
					108(e)	9.4
Post-hunt Feb. 1986(c)	1	2	5	2	9	3.0
	2	2	10	0	12	4.0
	3	0	0	0	0	0.0
	4	2	0	4	6	2.0
					27(f)	2.3

- (a) Pre-hunt 1984-85 based on 12 miles of transect = $\frac{2.75 \text{ deer}}{\text{mile}} = \frac{1.1 \text{ deer}}{230 \text{ acres}}$
 Pre-hunt 1984-85 based on measured 8.24 miles of suitable transect = $\frac{4.00 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{160 \text{ acres}}$
- (b) Post-hunt 1984-85 based on 12 miles of transect = $\frac{1.1 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{580 \text{ acres}}$
 Post hunt 1984-85 based on 6.04 miles of suitable transect = $\frac{2.15 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{300 \text{ acres}}$
- (c) Transects 1 & 4 harrowed
- (d) Post-hunt 1984-85 based on 12 miles of transect = $\frac{1.42 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{450 \text{ acres}}$
 Post-hunt 1984-85 based on 9.28 miles of suitable transect = $\frac{1.83 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{350 \text{ acres}}$
- (e) Pre-hunt 1985-86 based on 12 miles of transect = $\frac{9 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{71 \text{ acres}}$
 Pre-hunt 1985-86 based on 7.31 miles of suitable transect = $\frac{14.77 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{43 \text{ acres}}$
- (f) Post-hunt 1985-86 based on 12 miles of transect = $\frac{2.25 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{284 \text{ acres}}$
 Post-hunt 1985-86 based on 8.24 miles of suitable transect = $\frac{3.28 \text{ deer}}{\text{mile}} = \frac{1 \text{ deer}}{195 \text{ acres}}$

Table 3. Population estimates for white-tailed deer in the Monument Unit of the BCNP/WMA.

TIME OF SURVEY	METHOD	SOURCE	CALCULATED SIZE OF UNIT (ACRES)	POP. EST.	DENSITY (DEER:ACRE)
1985-86 Post-fawning	Track Counts	McCown	283,791	1260	1:225
1985-86 Pre-hunt	Aerial Counts	Schortemeyer 1985 (Appendix H)	283,791	280-385	1:1013-737
1984-85 Post-fawning	Track Counts	McCown 1985	283-791	1140	1:249
1984-85 Pre-hunt					
1983-84 Post-hunt					
1983-84 Pre-hunt					
1982-83 Post-hunt	Track Counts	Pylant, memo, 11 April 1983 (Appendix F)	270,000	1268-2250	1:213-120
1982-83 Pre-hunt					
1981-82 Post-hunt	Track Counts	Pylant, memo, 21 April 1982 (Appendix D)	270,000	1080-1875	1:250-144
1980-81 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981 (Appendix A)	300,000	1620	1:185

A spotlight count and an aerial census were attempted in Raccoon Point during 1986. However, the spotlight count was abandoned when it was calculated, due to dense vegetation, only 460 acres were being surveyed along a ten mile transect. The aerial census, patterned after guidelines developed by Burnham et al (1980), was unsuccessful due to the low numbers of deer seen and the inability to observe 100% of the deer along the transect centerline required by the technique.

The most useful recent information has been obtained from track counts on ten transects in the Raccoon Point area. These track counts were conducted on one mile transects representative of vegetation types and topography during May of 1985 and 1986 as water levels and tracking medium allowed (Figure 7). In 1985 the transects were covered on three consecutive mornings and in 1986 on seven. Results indicate a sparsely scattered herd with from one deer per 250 acres (1985) to one per 225 acres (1986) (Table 4).

Stairsteps Unit

Deer surveys have been conducted in the Stairsteps Unit since 1978. Some track count surveys were conducted in the western portion of the unit while aerial surveys were the type most frequently conducted in the eastern portion (Table 5). The eastern portion of the Stairsteps is largely open marsh Everglades adjacent to Shark Slough. This portion of the Stairsteps comprises approximately 50,000 acres. Density estimates ranged widely with these surveys. Prior to 1985-86 the aerial surveys were flown on N-S transects at 2 mile intervals. In 1985 the methodology was changed to conform to standards developed by Everglades National Park for systematic reconnaissance flights (SRF). These standards include east-west transects flown at 2 kilometer intervals with the survey area divided into 2 km² cells. This technique provides an opportunity to estimate both density and distribution. Figure 8 shows the eastern Stairsteps

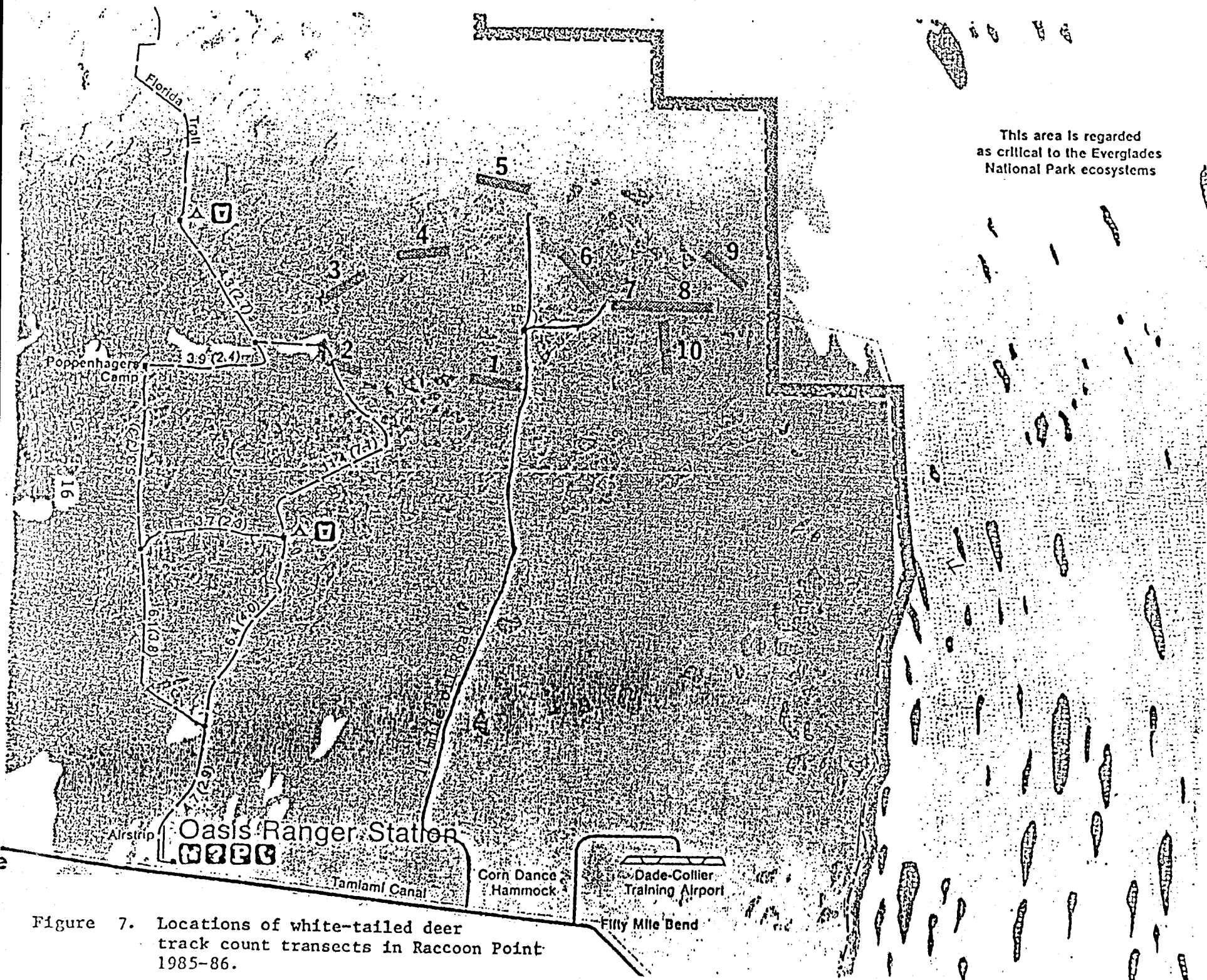


Table 4. Track count data, Monument Unit, 1985-86 (a)

		DAY								
Transect Number		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>Total</u>	<u>Mean</u>
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	1.33
	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					<u>8</u>	<u>2.7</u>
									77	2.56 (b)
May, 1986	1	1	3	3	0	3	4	3	17	2.4
	2	4	7	7	5	5	1	3	32	4.6
	3	3	0	1	1	3	4	4	16	2.3
	4	2	1	3	1	1	4	2	14	2.0
	5	2	3	3	5	3	4	7	27	3.9
	6	4	4	4	5	2	5	3	27	3.9
	7	1	6	3	6	2	3	1	22	3.1
	8	1	3	3	2	2	0	2	13	1.9
	9	2	2	4	5	1	3	2	19	2.7
	10	1	1	0	3	3	1	3	<u>12</u>	<u>1.7</u>
									199	2.85 (c)

(a) Track counts conducted in Raccoon Point Area

(b) 1985 $\bar{x}$ = 2.56 tracks/mile = 1 deer/250 acres

(c) 1986 $\bar{x}$ = 2.85 tracks/mile = 1 deer/225 acres

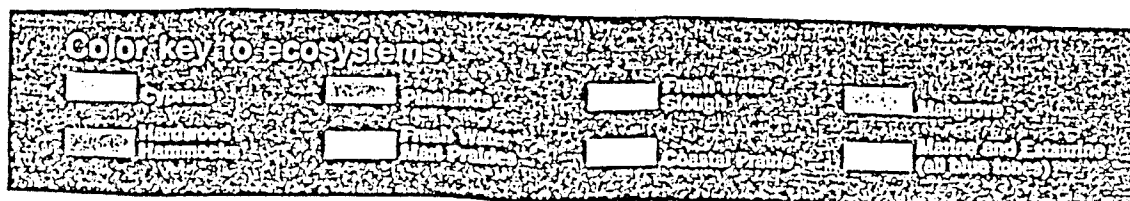
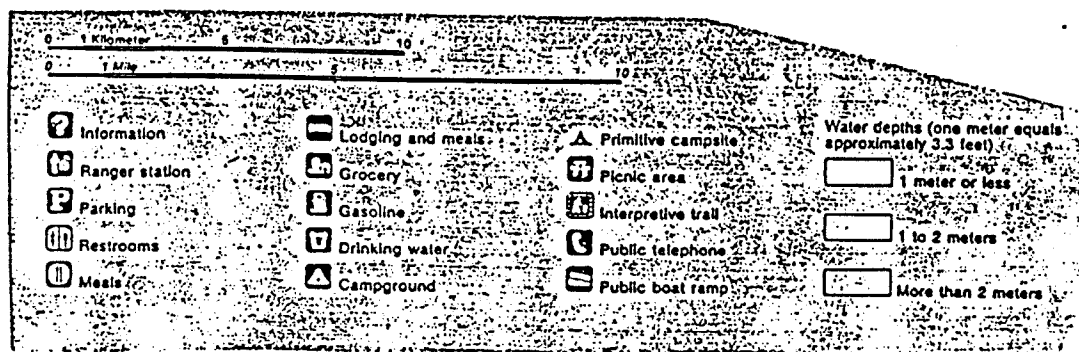
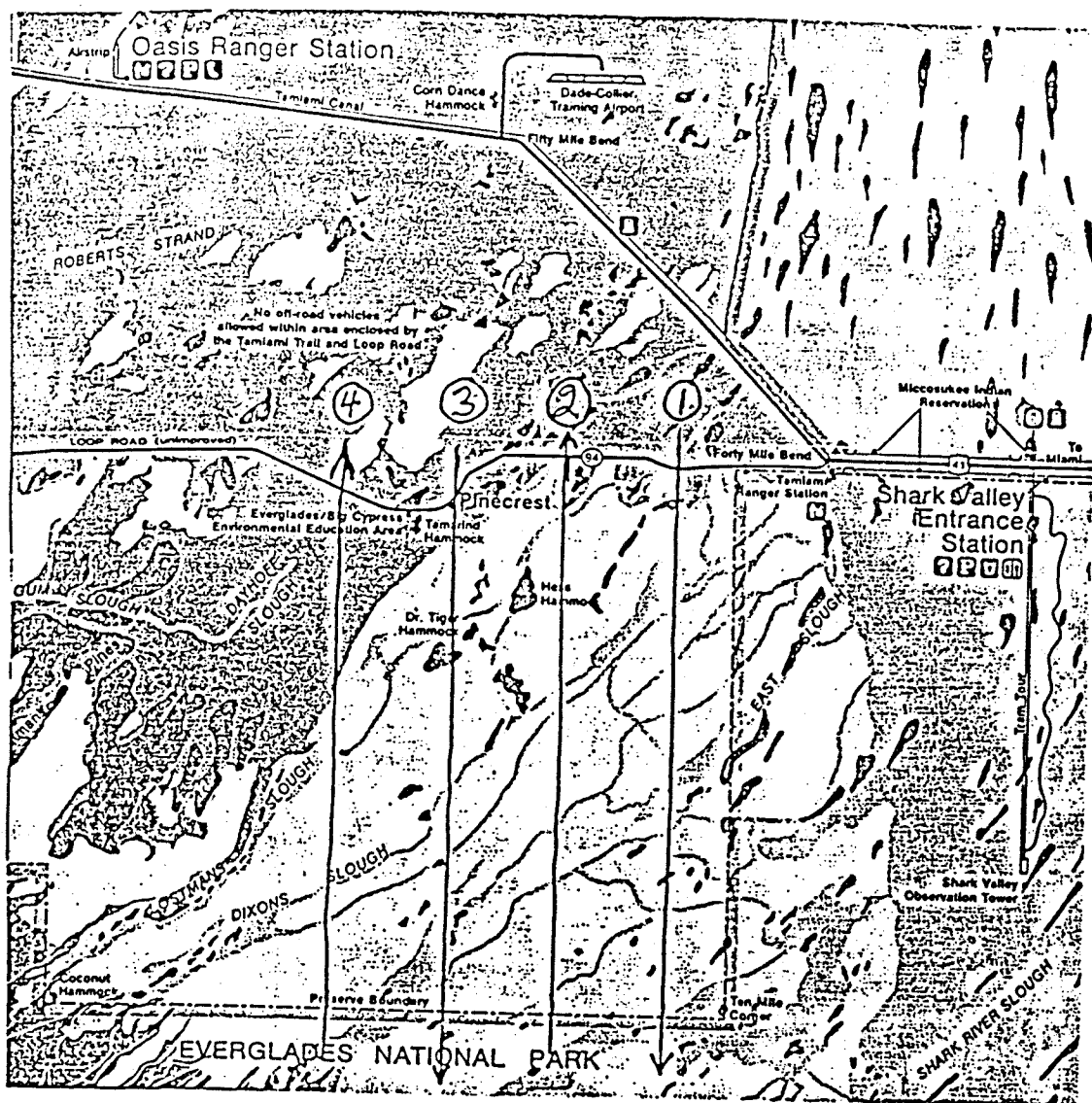
Table 5. Population estimates for white-tailed deer in the Stairsteps Unit (eastern portion) of the BCNP/WMA.

TIME OF SURVEY	METHOD	SOURCE	CALCULATED SIZE OF UNIT (acres)	POP. EST.	DENSITY (acres:deer)
1985-86 Post-hunt	SRF Aerial Counts	Schortemeyer under preparation 1986	50,000	240- 480	1:210-105
1985-86 Pre-hunt	SRF Aerial Counts	Schortemeyer under preparation 1986	50,000	410- 820	1:120-60
1984-85 Post-hunt					
1984-85 Pre-hunt	Aerial Counts	Schortemeyer 1984	50,000	422- 792	1:118-63
1984 Post Production (1 of 2)	Aerial Counts	Schortemeyer 1984	50,000	70- 132	1:714-379
1984 Post Production (2 of 2)	Aerial Counts	Schortemeyer 1984	50,000	117- 220	1:427-227
1983-84 Post-hunt	Aerial Counts	McGrady and Jansen 1984 Big Cypress WMA	50,000	123- 246	1:407-203
1983-84 Pre-hunt	Aerial Counts	McGrady and Jansen 1984 Big Cypress WMA	50,000	158- 317	1:316-158
1982-83 Post-hunt	Aerial Counts	Pylant, memo, 11 April 1983 (Appendix F)	50,000	379- 543	1:132-92
1982-83 Pre-hunt	Aerial Counts	Pylant, memo, 30 Sept. 1982 (Appendix E)	50,000	833- 1190	1:60-42
1981-82 Post-hunt	Track Counts	Pylant, memo, 21 April 1982 (Appendix D)	50,000	171	1:135
1980-81 Post-hunt	Track Counts	Pylant, memo, 28 Dec. 1981 (Appendix A)	141,800	1013	1:140

Table 5. continued

TIME OF SURVEY	METHOD	SOURCE	CALCULATED SIZE OF UNIT (acres)	POP. EST.	DENSITY (acres:deer)
1979-80 Post hunt	Track Counts	Pylant, memo, 28 Dec. 1981 (Appendix A)	140,300	954	1:147
1978-79 Post hunt	Track Counts	Pylant, memo, 28 Dec. 1981 (Appendix A)	141,000	1102	1:128
1977-78 Post hunt	Track Counts	Pylant, memo, 28 Dec. 1981 (Appendix A)	140,600	740	1:190
"	"	Bowman, memo 9 June 1978 (Appendix B)	141,000	743	1:190

Figure 8. Survey transects and general survey area for aerial deer census of the eastern Stairsteps Unit. 1983-84



survey area.

Table 6 provides a summary of the results of pre and post hunt surveys conducted in 1984-85 and 1985-86. No post hunt survey was conducted in 1984-85 as a result of aircraft scheduling conflicts. The average number of deer observed per mile of transect ranged from 0.38 to 0.64. Forty-one deer were observed on transect during the pre hunt 1985 survey. Deer density estimates for this survey ranged from 1 deer per 124 acres (100% observed) to 1 deer per 50 acres (40% observed). Both the survey data and field observations indicate that the deer herd increased slightly during the past 2 years. The post hunt 1986 survey indicates a significant 40% decline in the number of deer observed per mile of transect (0.64 to 0.38). This type of decline has been noted in other aerial surveys in South Florida and is apparently a result of environmental and behavior factors in addition to any seasonal declines in population which may occur.

HUNTING SEASONS

Hunting pressure on BCWMA was estimated at 17,195 man-days for the Archery, Muzzleloading and General Gun seasons (Table 7). This represents a 29.4% reduction over the prior year. This reduction is a result of lowered quotas and restrictions on the use of dogs and ATC's. Deer harvest was off 23.8% (156) and hog harvest was down 43.1% (111). Hunter success (game checked/man days) remained unchanged at 0.016. Reductions in check station operation and reduced hunter pressure contributed to the decline in checked harvest. Hunting pressure declined 29.4% while harvest declined 33.6%. Therefore, reduction in hunting pressure apparently accounts for most of the overall decline in harvest. Estimates of hunting pressure were not affected by reduced check station operation.

Figure 9 shows hunter activity and checked harvest for each of the last 6 years. Both pressure and harvest declined during 1985-86 when the results

Table 6. Number of deer observed per mile during aerial surveys of eastern Stairsteps, August 1984 through February 1986.

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

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

1) 100% of animals observed:	$\frac{0.46 \text{ deer}}{72.7 \text{ acres}}$	$\frac{1}{1.00} =$	$\frac{1 \text{ deer}}{158 \text{ acres}}$
2) 75% of animals observed:	$\frac{0.46 \text{ deer}}{72.7 \text{ acres}}$	$\frac{1}{0.75} =$	$\frac{1 \text{ deer}}{118 \text{ acres}}$
3) 50% of animals observed:	$\frac{0.46 \text{ deer}}{72.7 \text{ acres}}$	$\frac{1}{0.50} =$	$\frac{1 \text{ deer}}{79 \text{ acres}}$
4) 40% of animals observed:	$\frac{0.46 \text{ deer}}{72.7 \text{ acres}}$	$\frac{1}{0.40} =$	$\frac{1 \text{ deer}}{63 \text{ acres}}$

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

1) 100% of animals observed:	$\frac{0.64 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{1.00} =$	$\frac{1 \text{ deer}}{124 \text{ acres}}$
2) 50% of animals observed:	$\frac{0.64 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{0.50} =$	$\frac{1 \text{ deer}}{62 \text{ acres}}$
3) 40% of animals observed:	$\frac{0.64 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{0.40} =$	$\frac{1 \text{ deer}}{50 \text{ acres}}$

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

1) 100% of animals observed:	$\frac{0.38 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{1.00} =$	$\frac{1 \text{ deer}}{209 \text{ acres}}$
2) 50% of animals observed:	$\frac{0.38 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{0.50} =$	$\frac{1 \text{ deer}}{104 \text{ acres}}$
3) 40% of animals observed:	$\frac{0.38 \text{ deer}}{79.3 \text{ acres}}$	$\frac{1}{0.40} =$	$\frac{1 \text{ deer}}{83 \text{ acres}}$

Table 7. Big Cypress Wildlife Management Area Deer Harvest, Hog Harvest Hunting Pressure, 1980-86.

<u>Year</u>	<u># of Man Days</u>	<u># of Deer Harvested</u>	<u># of Hogs Harvested</u>	<u>Hunter Success (a)</u>
1980-81	14,240	103	81	.013
1981-82	16,539	104	44	.009
1982-83	18,625	145	141	.015
1983-84	23,015 ^{1/2}	140 ^{1/2}	201 ^{1/2}	.015
1984-85	24,360	205	195	.016
1985-86	17,195	156	111	.016

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

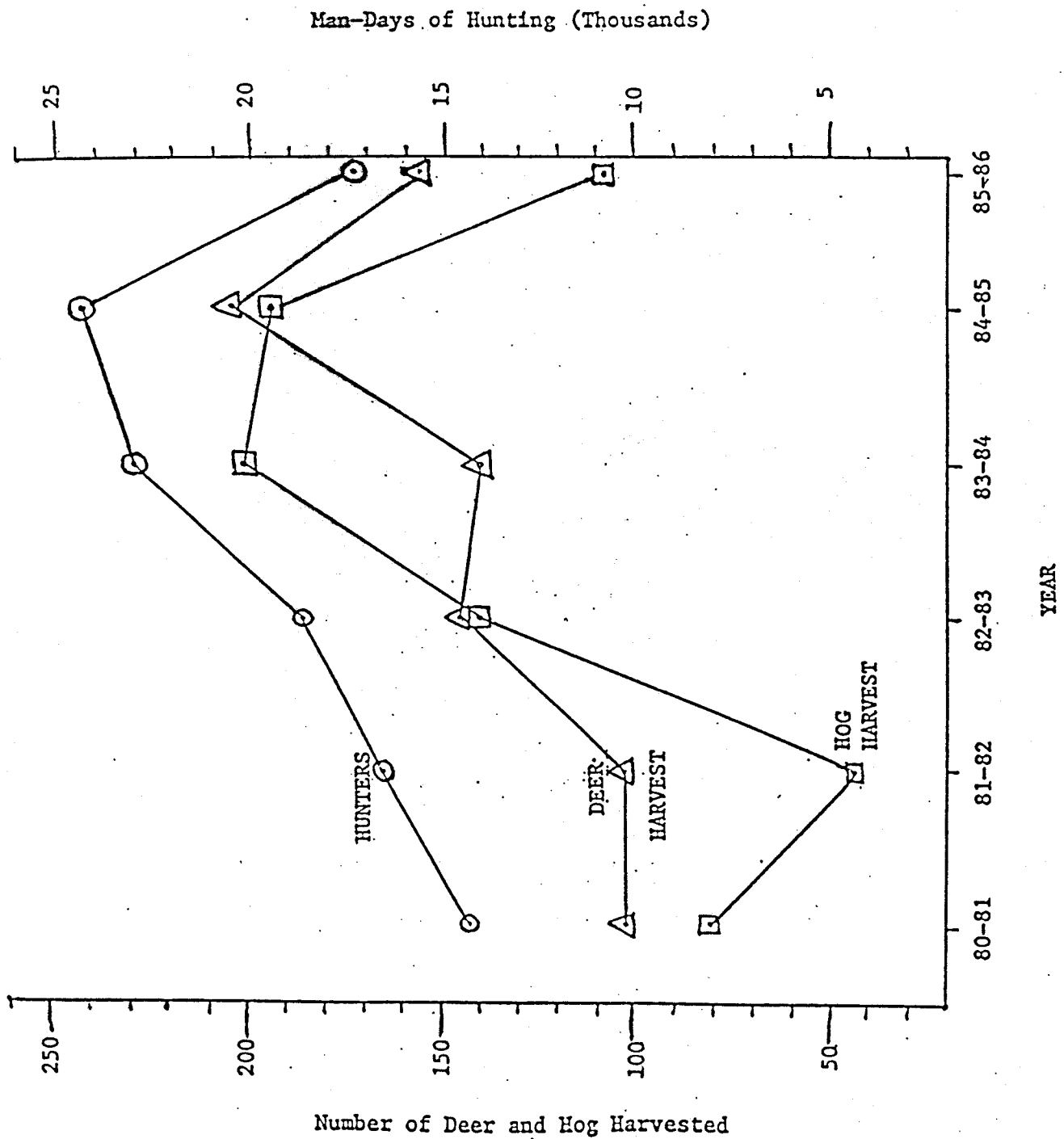


Figure 9. Hunting pressure and harvest of wild hog and white-tailed deer on Big Cypress Wildlife Management Area, 1980-1986.

for all seasons are combined. While hog harvest experienced the greatest decline (43.1%) overall hunter success remained constant when compared to 1984-85 (.016). Methods utilized to measure hunter pressure were constant for the last two years, but efforts to check harvested game were adversely affected by reduced check station operation. Therefore, actual hunter success rates for 1985-86 may be slightly higher.

Table 8 summarizes the deer and hog harvest by season compared to the average for the prior 2 years. Both deer harvest and hunter success increased during the Archery and Muzzleloading seasons. During General Gun checked deer harvest declined, but hunter success remained constant. Checked hog harvest declined significantly during all three seasons. Hog hunter success declined during the Archery and Muzzleloading seasons, but remained relatively constant during the General Gun season.

A comparison of seasonal success shows some interesting trends. As expected, Archery season consistently produced the lowest hunter success rates. During 1985-86 highest hunter success occurred during Muzzleloading season. In the past this has applied to hog harvest, but not deer harvest. While Muzzleloading hunting may be perceived by some to be less efficient these data indicate that may not always be the case.

Harvest and hunter pressure are compared by unit and season in Table 9. Generally, the trends for individual units followed the overall trends already discussed. The exception to this is the Bear Island Unit where hog harvest declined significantly over the past three years and deer harvest increased significantly during 1985-86.

Archery Season

Archery season opened September 7 and closed September 29. This 23 day season was similar to recent Archery seasons on the area. Again this year only

Table 8. Big Cypress Wildlife Management Area deer and hog harvest and hunter success ratio by season and compared to prior 2 year average.

Season	Deer				Hogs			
	Number harvested		Hunter success ratio a/		Number harvested		Hunter success ratio	
	Prior 2-yr. avg.		Prior 2-yr. avg.		Prior 2-yr. avg.		Prior 2-yr. avg.	
	1985-86		1985-86		1985-86		1985-86	
Archery	6	5.0	.004	.003	4	9.5	.003	.006
Muzzleloader	23	15.5	.012	.006	22	42.5	.012	.017
General Gun	120	153.0	.009	.009	85	146.0	.006	.007

a/ Success ratio = number of animals harvested/number of man-days.

Table 9. Three-year comparison of documented deer and hog harvest and hunter pressure in the Big Cypress Wildlife Management Area.

	<u>DEER</u>			<u>HOG</u>			<u>HUNTER PRESSURE</u>		
	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>	<u>1983-84</u>	<u>1984-85</u>	<u>1985-86</u>
<u>Archery</u>									
Bear Island	4	2	2	9	6	1	625	825	495
Deep Lake	0	0	0	0	0	0	55	50	60
Monument	0	1	1	0	0	2	445	550	410
Stairsteps	1	0	1	1	2	0	190	260	310
Loop	2	0	2	0	1	1	170	260	150
Archery Total:	7	3	6	10	9	4	1,485	1,945	1,425
<u>Muzzleloading</u>									
Bear Island	9	7	15	39	21	5	950	700	605
Deep Lake	0	0	0	0	0	0	105	100	60
Monument	0	2	3	0	2	13	820	1,000	670
Stairsteps	3	4	3	7	7	1	250	500	380
Loop	3	3	2	5	4	3	160	275	190
Muzzleloading Total:	15	16	23	51	34	22	2,285	2,575	1,905
<u>General Gun</u>									
Bear Island	16	19	30	42	33	20	3,125	3,000	2,715
Deep Lake	0	0	1	1	0	2	830	555	485
Monument	18	75	30	16	37	6	8,075	9,060	5,760
Stairsteps	76	76	51	64	68	41	5,800	5,750	3,500
Loop	8	18	15	17	14	16	1,630	1,625	1,405
General Gun Total:	118	188	127	140	152	85	19,460	19,990	13,865
<u>Combined</u>									
Bear Island	29	28	47	90	60	26	4,700	4,525	3,815
Deep Lake	0	0	1	1	0	2	990	705	605
Monument	18	78	34	16	39	21	9,340	10,610	6,840
Stairsteps	80	80	55	72	77	42	6,240	6,510	4,190
Loop	13	21	19	22	19	20	1,960	2,160	1,745
Combined Total:	140	207	156	201	195	111	23,230	24,510	17,195

deer with one or more antlers at least one inch in length, visible above the hairline, were legal. Wild hogs with a shoulder height of 15 inches or more were also legal game.

During the Archery season 6 deer and 4 hogs were checked (Table 10). Deer harvest was slightly higher while hog harvest was down significantly. Hunting pressure was down 17.4% compared to the prior two year average.

Muzzleloading Season

For the third year, Muzzleloading season was 16 days (5 October through 20 October). A quota of 250 hunters was again established for the Bear Island Unit during the first nine days. This year however, quota permits were not available by application. Permits were issued on a first come, first served basis at the check station beginning at 2:00 PM. The quota of 250 hunters was not filled. Future quota hunts for the Bear Island Muzzleloading season will be filled through the normal special quota hunt application process.

During the Muzzleloading hunt, hunter activity was reduced by 21% to 1905 man-days compared to the prior two year average of 2400 man-days (Table 11). Deer harvest (23) was up 48% while hog harvest (22) was down 48%. Total harvest was down 23%, a level commensurate with the reduction in hunter activity.

General Gun Season

The General Gun season opened on 9 November and closed on 5 January 1986. Restrictions on deer and hog were similar to prior years and seasons. Hunter activity and harvest during the General Gun season are summarized in Table 12.

Hunter activity during General Gun season was estimated at 13,865 man-days, a reduction of 30% when compared to the prior 2 year average. New restrictions including reduced quotas, restrictions on ATC's, and restrictions on the use of dogs contributed to this decline.

Table 10. Archery Season Harvest Summary - Big Cypress Wildlife Management Area, 1985-86.

<u>Week</u>		<u>Deer</u>		<u>Hog</u>		<u>Hunter Activity (man-days)</u>	
<u>1985-86 dates</u>		<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>
1	(9-7 to 9-8)	1	1.5	1	5	530	580
2	(9-9 to 9-15)	3	2.5	3	2.5	370	395
3	(9-16 to 9-22)	2	0	0	2	225	400
4	(9-22 to 9-29)	0	1	0	0.5	300	350
Total		6	5	4	10	1425	1725

Table 11. Muzzleloader Season Harvest Summary - Big Cypress Wildlife Management Area, 1985-86.

<u>Week</u>	<u>Deer</u>		<u>Hog</u>		<u>Hunter Activity (man-days)</u>	
<u>1985-86 dates</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>
1 (10-5 to 10-6)	14	9.5	7	17.5	910	1160
2 (10-7 to 10-13)	5	5	7	17	560	660
3 (10-14 to 10-20)	4	1	8	7.5	435	580
Total	23	15.5	22	42.0	1905	2400

Table 12. General Gun Season Harvest Summary - Big Cypress Wildlife Management Area, 1985-86.

<u>Week</u>		<u>Deer</u>		<u>Hog</u>		<u>Hunter Activity</u> <u>(man-days)</u>	
<u>1985-86 dates</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	<u>1985-86</u>	<u>Prior 2 yr. avg.</u>	
1 (11-9 to 11-10)	55	40	28	26	2615	3185	
2 (11-11 to 11-7)	21	39	18	35	2545	3680	
3 (11-8 to 11-24)	8	19	9	24	2050	2790	
4 (11-25 to 12-1)	10	13	5	13.5	1150	1755	
5 (12-2 to 12-8)	8	12	4	9	875	1545	
6 (12-9 to 12-15)	4	3.5	5	9.5	720	1320	
7 (12-16 to 12-23)	8	8	5	4	600	945	
8 (12-22 to 12-29)	5	6	7	8	1480	1885	
9 (12-30 to 1-5)	8	10	4	17	1830	2620	
Total	127	150.5	85	146	13865	19725	

Deer harvest (127) was 16% below the prior two year average while hog harvest (85) was reduced 42%. The overall reduction in harvest (28%) was again commensurate with the measured decline in hunter activity.

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. Hunter use in 1985 was calculated by multiplying the 1984 hunter activity estimate by the ratio of the 1985 vehicle survey to the 1984 vehicle survey. The results of the vehicle surveys are summarized in Appendix B. While the vehicle surveys do not directly measure hunter pressure they do provide a good index and therefore the trends over the past three years are accurately portrayed.

Figure 10 compares hunting pressure by week of General Gun season over the past six years. In general, use trends are highest during the first nine days and remain high through Thanksgiving weekend. Use levels decline after that until the end of the season. Use levels at the end of the season increase, but generally remain below levels in the first two weeks. Levels presented for the first week are actually estimated levels for the first two days (opening weekend). The remaining weeks cover a full 7 day period.

WHITE-TAILED DEER BIOLOGICAL DATA

Herd Composition

Observations made during two years of June, August and October doe collections, when the presence of antlers is more discernable indicate very similar antler:antlerless ratios for the herds in Bear Island and Raccoon Point. The ratios are: 1:3.03 and 1:3.87 respectively and 1:3.4 inclusive.

The age structure of collected adult does is presented in Figure 11. Age

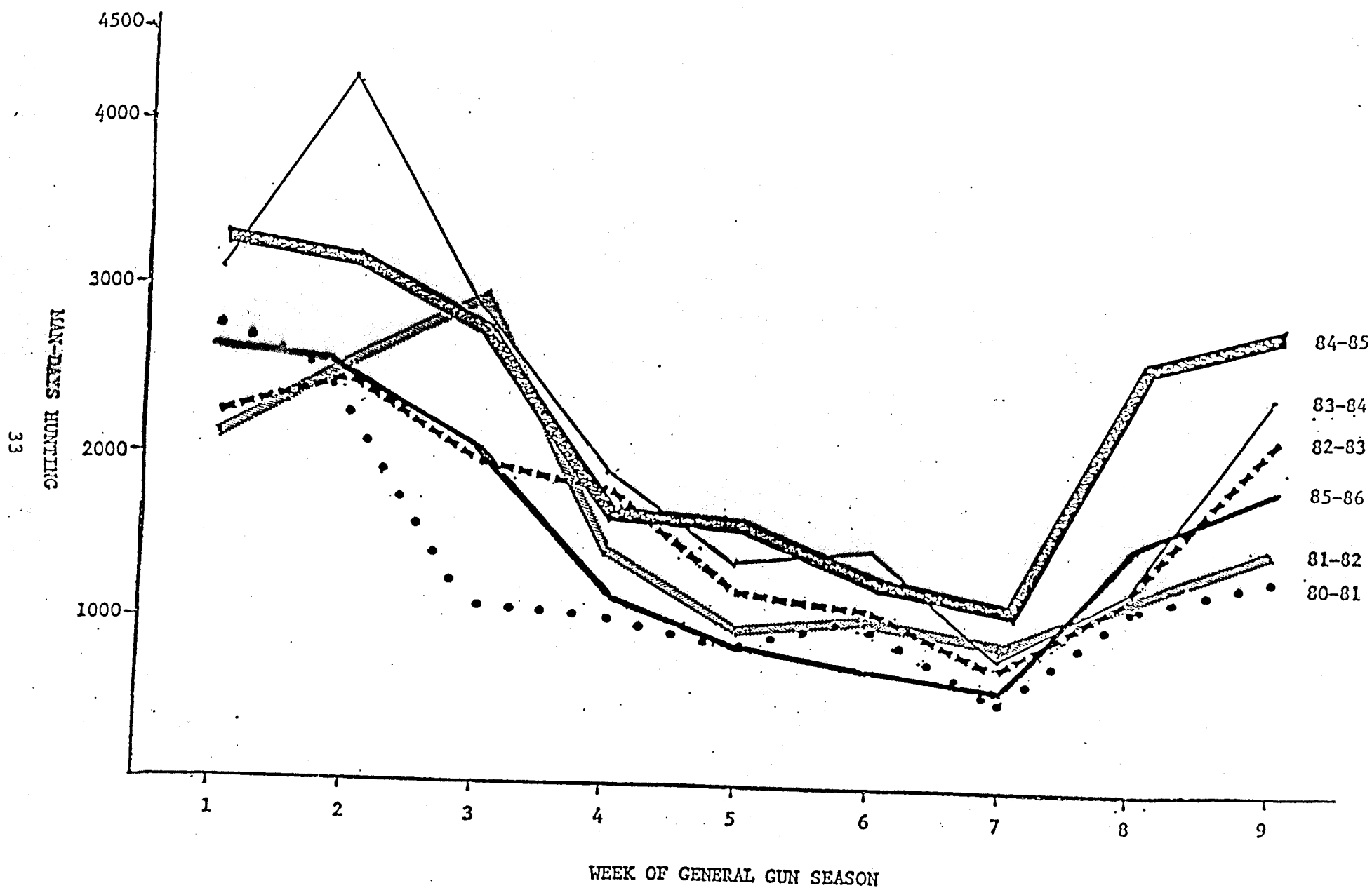


Figure 10. General Gun Season Hunting Pressure - Big Cypress Wildlife Management Area, 1980-1986.

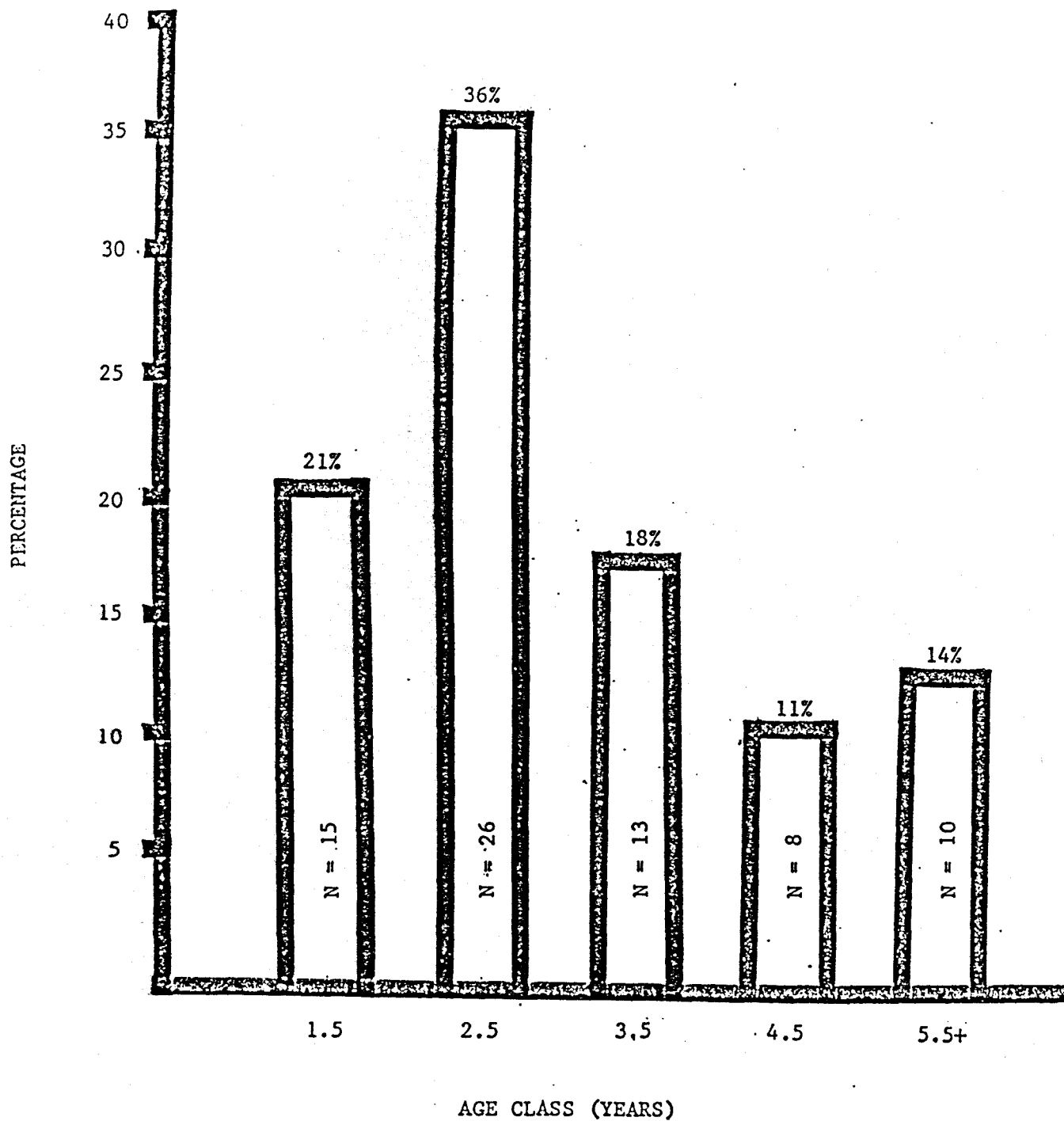


Figure 11. Age structure of female white-tailed deer collected in the Bear Island unit and Raccoon Point area of BCNP (Aug 84 - June 86).*

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

structures among does from Raccoon Point and Bear Island are virtually identical and hence are presented together. During collection periods fawns and yearlings were not intentionally taken and subsequently are not included in the figures.

The 2.5 year age class is seemingly over represented among the herds resulting in a younger than expected doe age structure. A portion of the youth of the herd is conceivably attributable to very low spring water levels in 1982. It is believed that lower than normal water levels during fawning and fawn rearing would allow a greater than normal fawn survival rate. The water levels during March-May 1982 are the lowest on record and does born that year are seemingly over represented in the sample (Figure 12)).

Appendix C summarizes biological data collected on 93 male deer harvested during the 1985-86 seasons. These deer were aged by tooth wear and irruption. The age structure of harvested deer on the BCWMA is illustrated in Figure 13. Deer in the 1.5 year age class account for 56.7% of the harvest while the 2.5 year age class accounts for 20% of the harvest. The increase in the 1.5 year age class could be the result of increased hunting pressure in earlier years or increased recruitment and survival. Based on deer surveys and hunter success rates increased recruitment and survival account for these changes.

Table I3 summarizes deer age structure by unit of harvest. The Stairsteps Unit has the highest portion (69.0%) in the 1.5 year age class. The other units have a lower percentage of animals in the 1.5 year age class. With these exceptions the results for individual units correspond with the results for all units combined.

Table I4 summarizes antler characteristics by age class and unit of harvest. Generally, these characteristics are below those reported last year. Two possible reasons for this are changes in measuring animals or adverse changes in diet and nutrition.

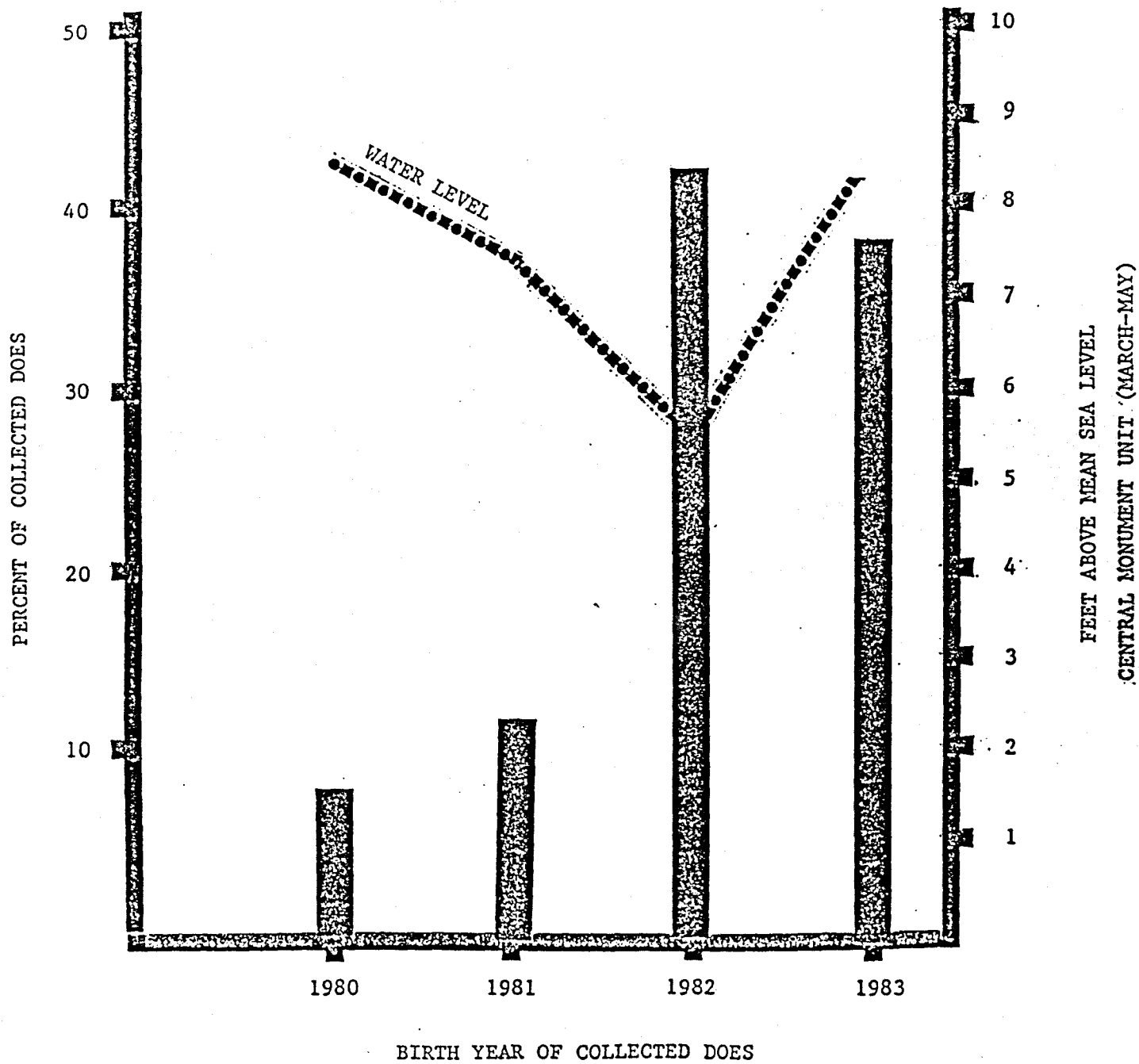


Figure 12. Percentage of collected doe deer born 1980-1983 and spring water levels.

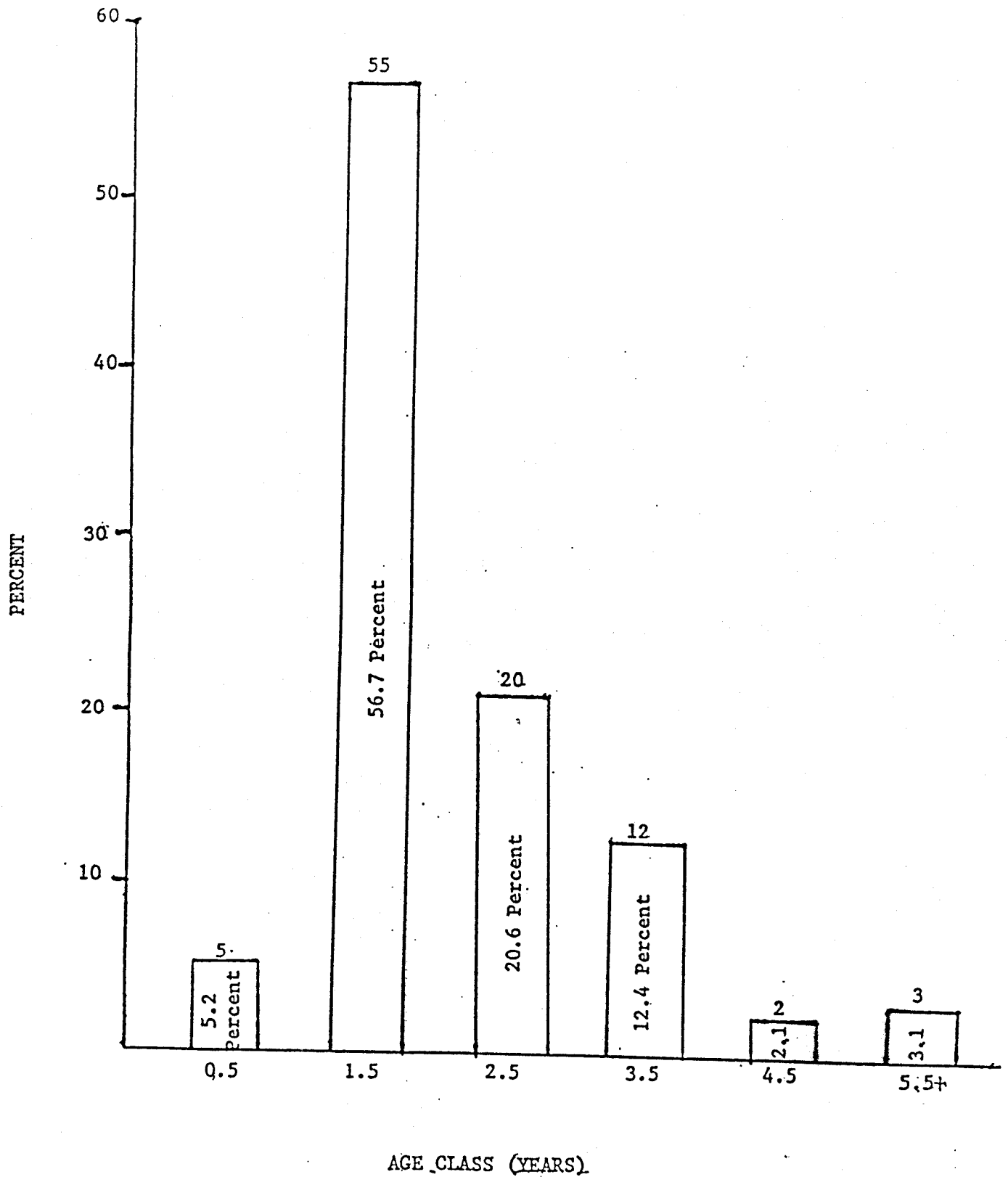


Figure 13. Age structure of male white-tailed deer harvested on the Big Cypress Wildlife Management Area, 1985-86.

Table 13. Age structure of male white-tailed deer harvested on the Big Cypress WMA during the 1985-86 open seasons by unit of harvest.

Age Class	Bear Island		Monument/DL		Loop Road		Stairsteps		All Units Combined	
	#	%	#	%	#	%	#	%	#	%
0.5	4	14.3	0	-	0	-	1	2.4	5	5.2
1.5	13	46.4	5	41.7	8	53.3	29	69.0	55	56.7
2.5	6	21.4	4	33.3	3	20.0	7	16.7	20	20.6
3.5	3	10.7	3	25.0	2	13.3	4	9.5	12	12.4
4.5	2	7.1	0	-	0	-	0	-	2	2.1
5.5+	0	-	0	-	2	13.3	1	2.4	3	3.1
Sample size	28		12		15		42		97	

Table 14. Weight and antler characteristics of male deer harvested during the 1985-86 open seasons, Big Cypress Wildlife Management Area, by age, class and unit of harvest.

Age Class	Sample Size					Average Antler Circum. (cm) (rt)					Average Main Beam Length (cm) (rt)					Average Number of Points					Dressed Weight (lbs)				
	I	III	IV	V	All	I	III	IV	V	All	I	III	IV	V	All	I	III	IV	V	All	I	III	IV	V	All
0.5	4	0	0	0	4	3.2	-	-	-	3.2	5.8	-	-	-	5.8	2.0	-	-	-	2.0	52	-	-	-	52
1.5	11	2	7	20	40	4.6	4.1	4.6	4.6	4.6	11.7	11.8	10.6	11.5	11.4	2.8	2.0	2.0	2.4	2.4	63	-	61	58.4	60
2.5	5	3	3	7	18	6.0	5.6	5.0	6.2	5.8	28.2	21.2	16.7	20.4	22.1	7.5	4.7	3.5	3.1	4.7	77	-	65	72.5	73
3.5	3	2	1	4	10	7.5	7.4	7.0	6.8	7.2	30.8	33.8	21.0	26.4	28.7	6.3	7.5	6.0	5.3	6.1	93	75	70	75.3	80
4.5	1	0	0	0	1	8.8	-	-	-	8.8	28.8	-	-	-	28.8	5.0	-	-	-	5.0	80	-	-	-	80
5.5+	0	0	2	1	3	-	-	9.0	7.0	8.3	-	-	40.0	40.0	40.0	-	-	8.0	6	7.3	-	-	77.5	70.0	75
All	24	7	13	32	76	5.2	5.7	5.6	5.3	5.4	17.3	22.1	17.3	16.2	17.3	4.2	4.7	3.6	3.0	3.6	69	75	65	64	66

a) Unit, I = Bear Island; III = Monument; IV = Loop Road; V = Stairsteps

Table 15 summarizes the occurrence of spikes by age class and unit of harvest. Although the percent of spikes in the 1.5 year age class declined to 47.3% from the prior year (59.5%) the two years remained comparable. The main beam length of all spikes 1.5 years and older exceed 2.5 cm.

While data from the current year appear to have some inconsistencies, there are some trends evident which have also been noted in earlier years. The most important of these trends is that Bear Island deer tend to be larger both in antler characteristics and size than deer from other areas. This trend has been especially consistent when Bear Island and the Stairsteps units are compared. These are the two units with the largest samples each year and therefore comparisons are not usually hampered by small sample sizes.

Does collected during the deer study showed similar trends when Bear Island and Monument (Raccoon Point) are compared. It is in the area of physical condition in which the deer in Bear Island and Raccoon Point differ most. Summarily, the deer in Bear Island are in much better physical condition. This is reflected by deer in Bear Island possessing greater body weights, higher fecal diaminopimelic acid (DAPA) levels, higher physical condition values and lower abomasal parasite counts (APC).

Most apparent when observing deer from both study areas is the dramatic size difference. Does from Bear Island average 22% heavier, by age class, than those from Raccoon Point (Figure 14).

DAPA analysis is based on the relationship between this unique residue of rumen bacterial fermentation and diet quality. As digestible energy in a diet increases, so too does bacterial fermentation, which results in increased DAPA residue, which is not absorbed and passes out in feces. The diet quality of deer in Raccoon Point reflected by DAPA levels, is inferior to Bear Island (Figure 15).

Table 15. Number of spikes, percent spikes and average main beam length of adult deer harvested by zone on Big Cypress Wildlife Management Area, 1985-86.

Age Class	Number of Spikes					X Spikes in Age Class					Main Beam Length of Spikes			
	I (a)	III	IV	V	All	I	III	IV	V	All	0-1 inches	1-3 inches	3-5 inches	> 5 inches
1.5	6	2	5	13	26	46.2	40.0	62.5	44.8	47.3	-	6	8	12
2.5	-	-	1	4	5	-	-	33.3	57.1	25.0	-	-	-	5
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

a) Zones I = Bear Island; III = Monument; IV = Loop Road; V = Stairsteps

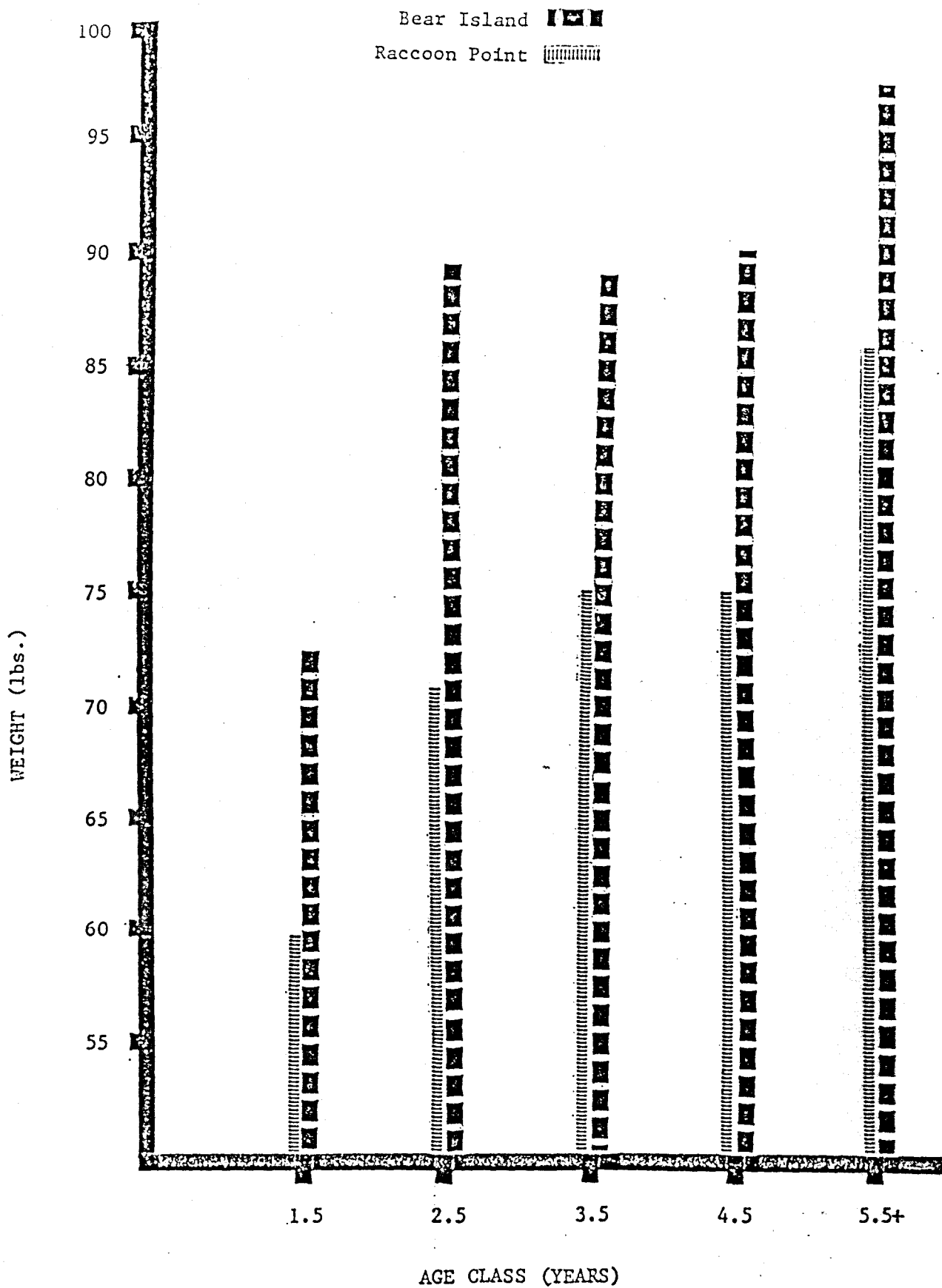


Figure 14. Mean weights of adult doe deer collected from the Bear Island unit and Raccoon Point area of BCNP (1984-1986).

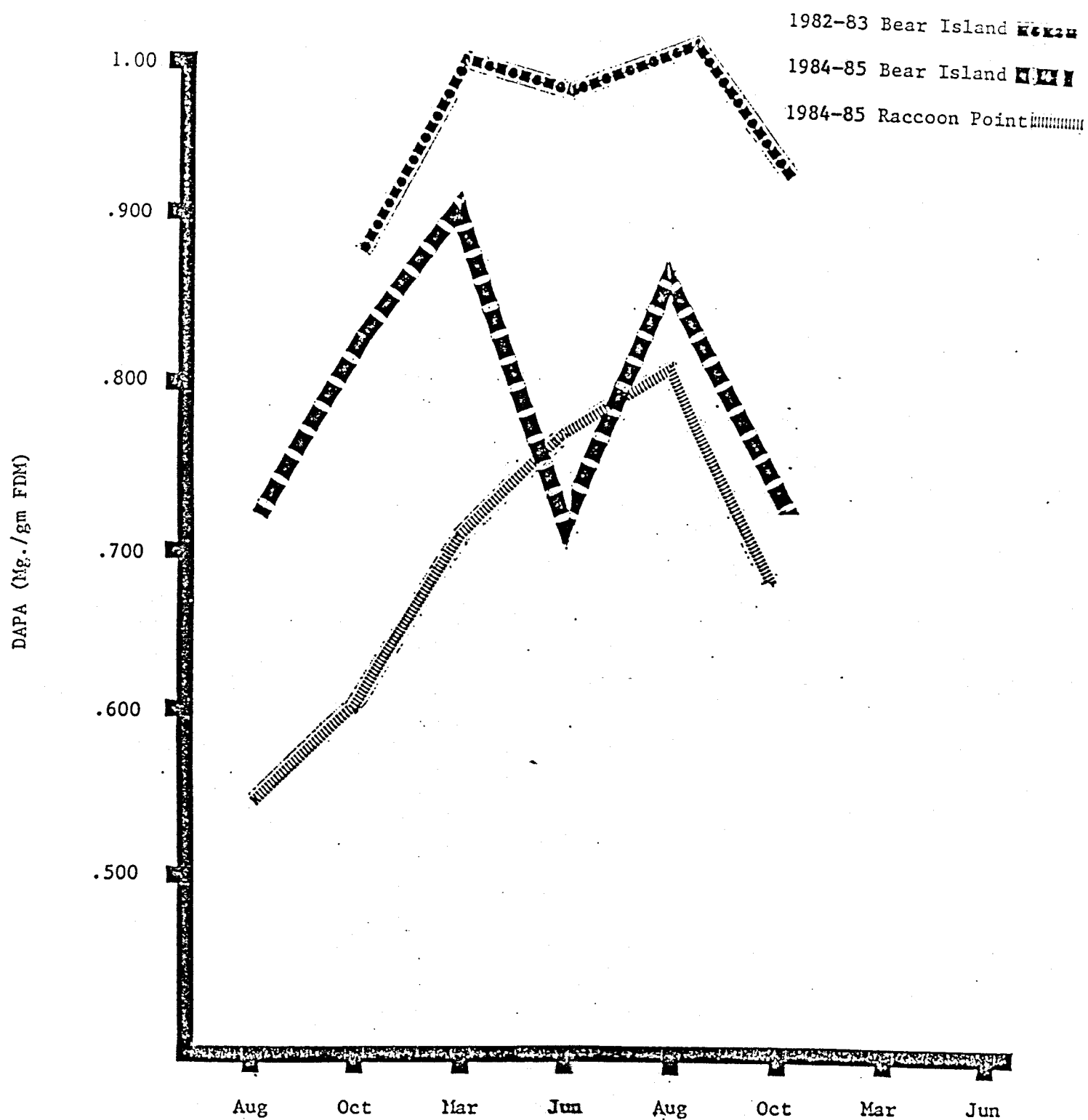


Figure 15. Fecal DAPA levels in adult deer collected from the Bear Island unit and Raccoon Point area of BCNP.

Physical condition values were assigned each collected animal ranging from poor to fair to good to excellent with minus and plus gradations being implemented. Physical condition values were based upon relative amounts of endogenous fat deposits on the tail, heart, pericardium, and kidneys (Stockle et al 1978). These values were assigned a numerical rank from 1 (poor minus) to 8 (excellent plus) (Figure 16).

An apparent relationship exists between DAPA levels and physical condition values. As DAPA levels increase, so too does the level of physical condition, lagging a few months behind (Figure 17).

The APC levels exhibited a repeating, but not fully understood pattern during both collection years (Figure 18). Solely on Eve and Kellogg's (1977) interpretations involving fall APC's the Bear Island herd is somewhat below carrying capacity while the herd in Raccoon Point is near carrying capacity. It is interesting to note that the other physical parameters discussed suggest this also.

Reproductive Status

Forty-four adult doe deer were collected and examined during October, March and June. Of these, Eighteen of twenty (90%) from Bear Island and twenty-two of twenty-four (92%) from Raccoon Point showed positive indications of lactation or pregnancy. The mean conception and fawning dates of deer in Bear Island and Raccoon Point during 1984-86 were August 12 and February 27, respectively. There were no differences between areas or years. The mean fetal rate in Bear Island was 1.45 fetus per pregnant doe and for Raccoon Point 1.0 fetus per pregnant doe. Although, it appears the reproductive potential is greater in Bear Island it is notable that no twin fetuses were observed subsequent to 45 days development. Further, twin fawns were observed on only two occasions during collections.

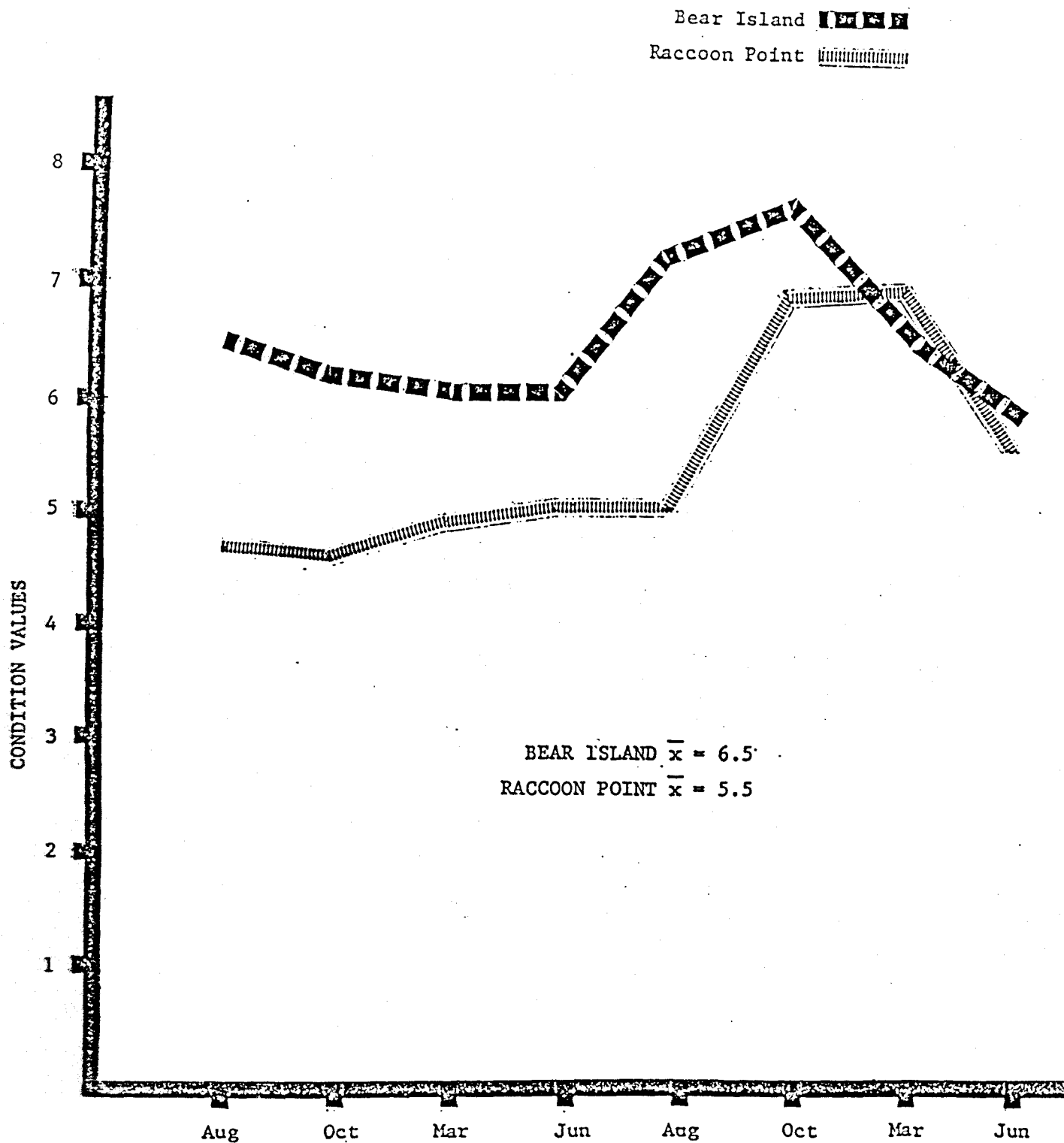


Figure 16. Condition values of adult deer collected in the Bear Island unit and Raccoon Point area of BCNP (1984-86).

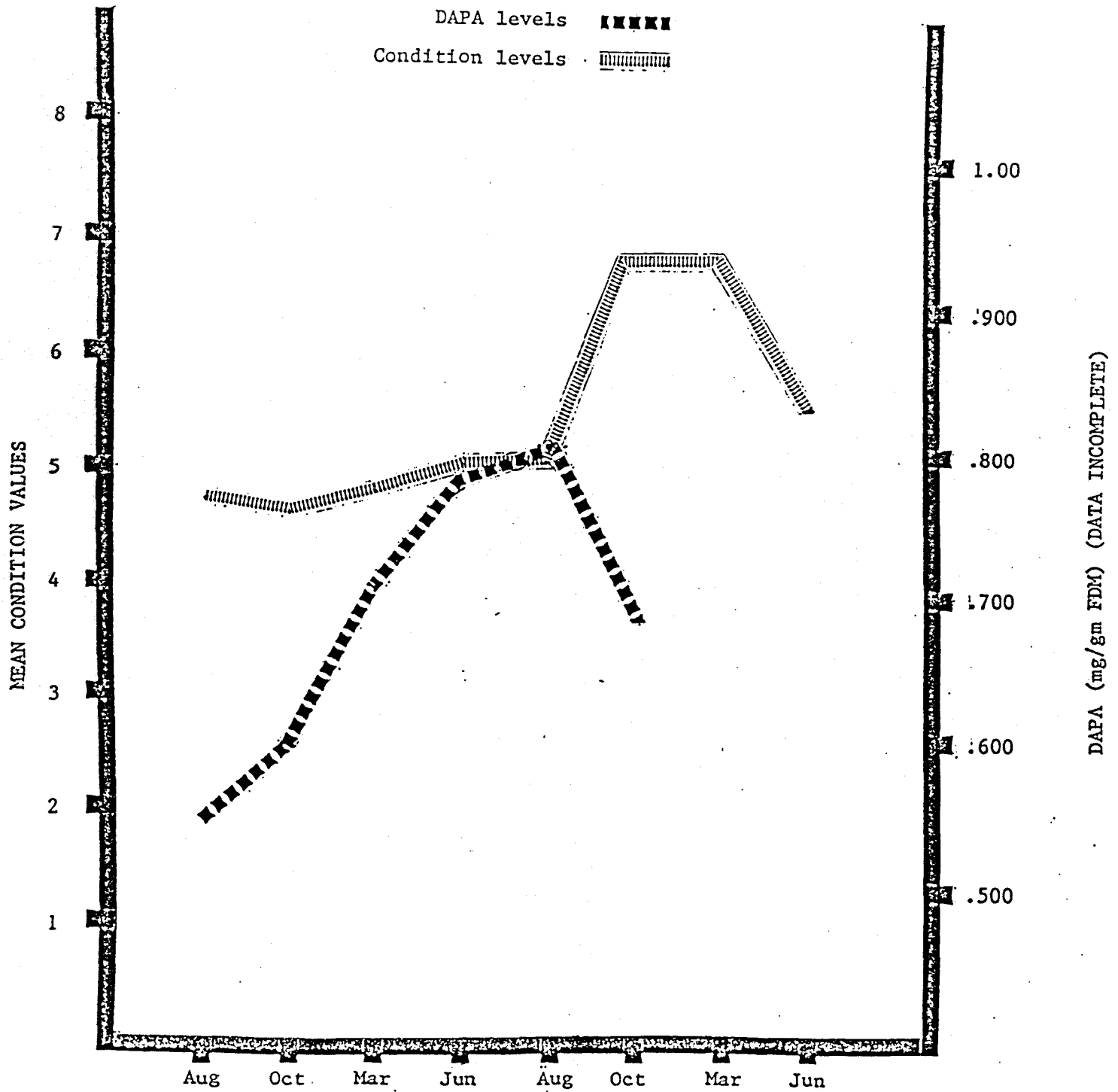


Figure 17. DAPA levels and Mean Condition Values of adult deer collection in Raccoon Point.

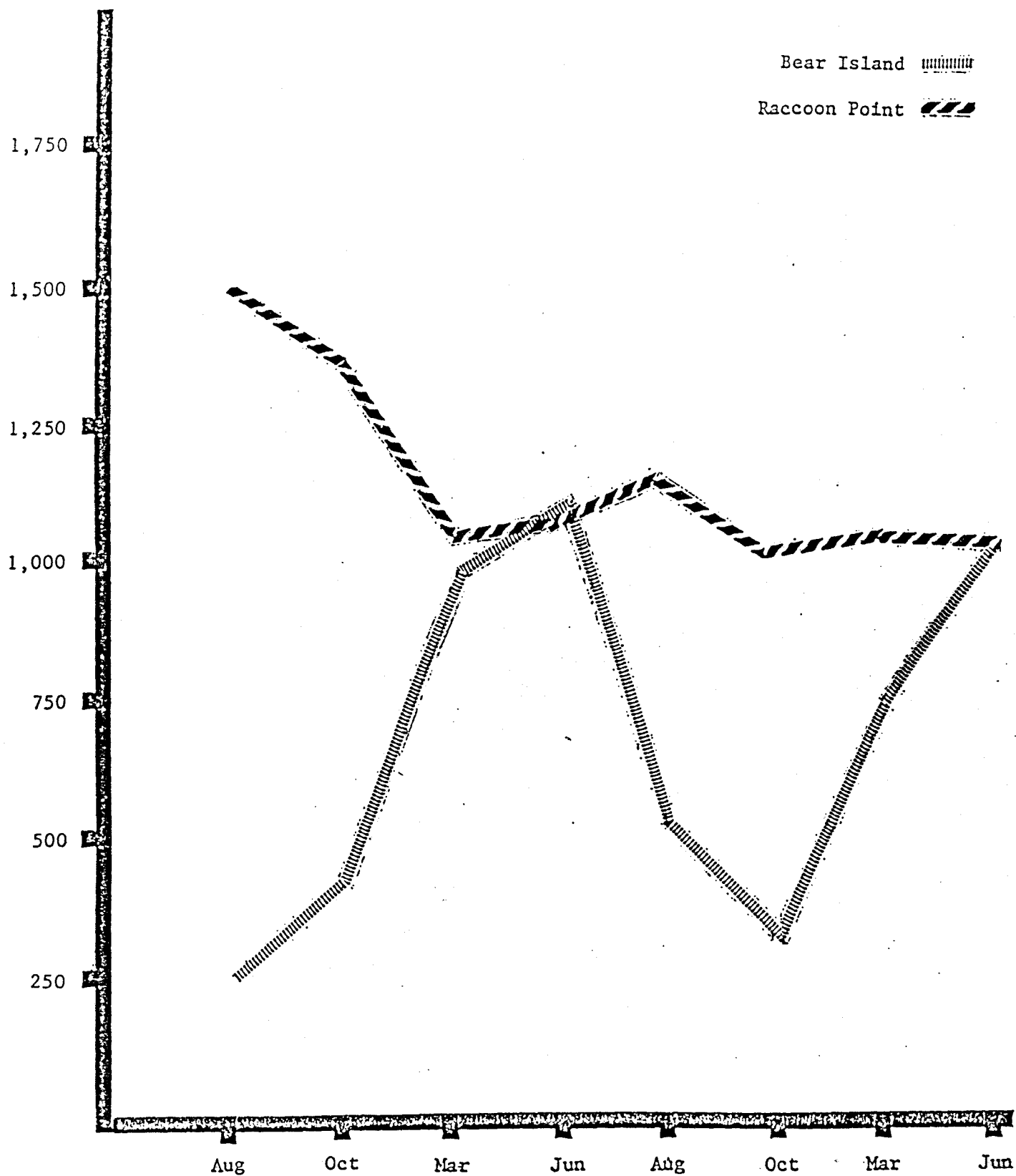


Figure 18. Abomasal parasite counts from adult white-tailed deer in the Big Cypress National Preserve 1984-1986.

WILD HOG BIOLOGICAL DATA

Hunter Harvested Hogs

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 326 of the 508 hogs checked over the past 3 years.

Table 14 summarizes average gutted weights and lengths for hogs harvested during the last 3 years. Average weights, length and shoulder height remained relatively constant. A slight increase in weight and shoulder height was noted for the 1985-86 year. For all three years combined the average dressed weight of harvested hogs was 72 pounds. The average body length was 115 cm and shoulder height averaged 61 cm.

Table 15 compares physical characteristics of male and female hogs harvested over the last three years. Males were larger in every category. On average, males outweighed females by 38% or 23 pounds (83 lbs. vs 60 lbs). Average body length of males was 3% greater than females (117 cm vs 114 cm) while shoulder height was 10% greater for males (64 cm vs 58 cm).

Table 16 compares physical characteristics of wild hogs harvested on Bear Island to those from the Stairsteps unit. Bear Island appears to be superior habitat for wild hogs as well as deer. Many of the same factors are undoubtedly beneficial to both species. Hogs from Bear Island average 22 pounds or 40% more than hogs from Stairsteps. Body length and shoulder height differences are not as great (5% and 9%), but the trend is consistent in all years.

Table 14. Physical characteristics of wild hogs harvested on Big Cypress Wildlife Management Area, 1983-86.

<u>Year</u>	<u>Sample size</u>	<u>Average dressed weight (lbs)</u>	<u>Average Body length (cm)(a)</u>	<u>Average Shoulder height (cm)</u>
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)

(a) Body length **does not** include tail

Table 15. Comparison of physical characteristics of male and female hogs harvested on Big Cypress Wildlife Management Area, 1984-86.

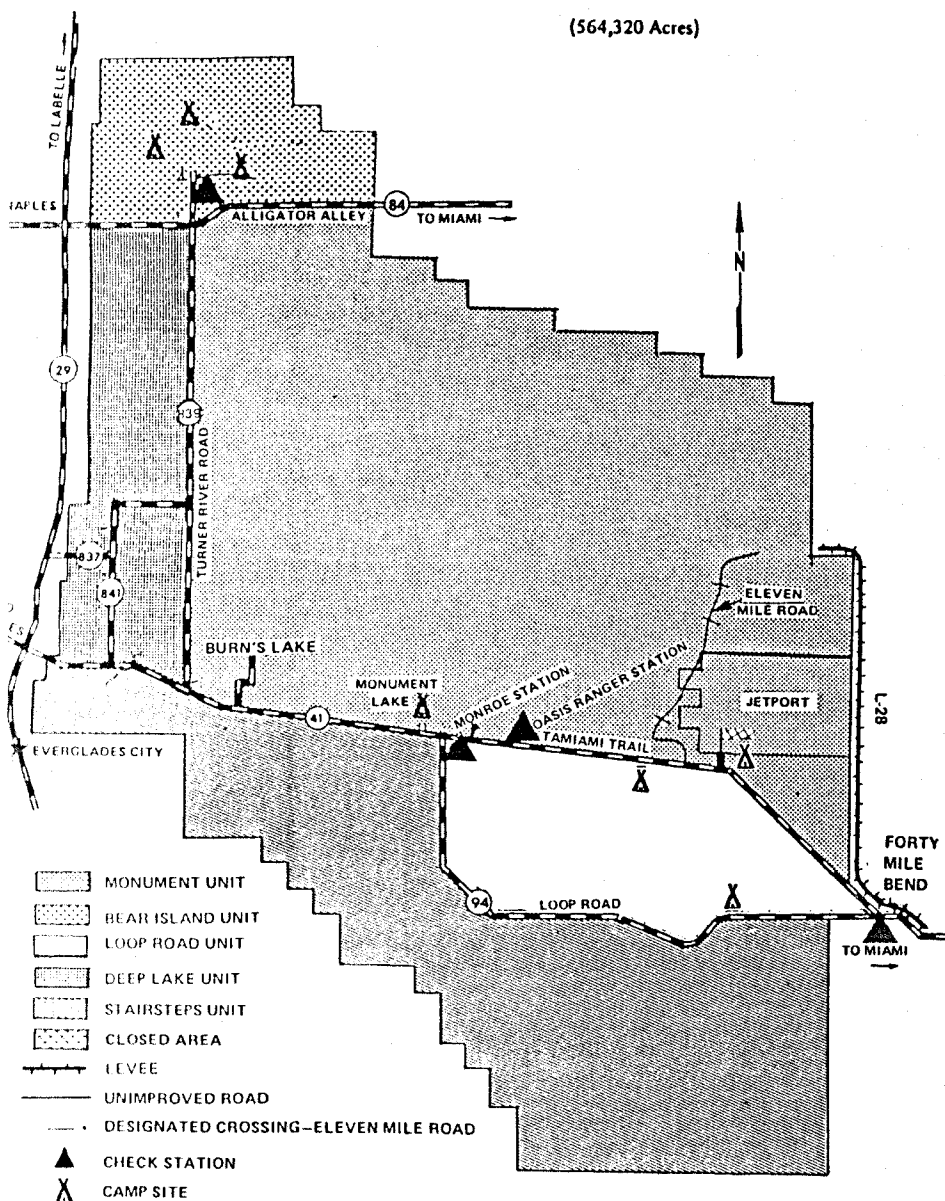
<u>Year</u>	<u>Sex</u>	<u>Sample size</u>	<u>Average Dressed weight (lbs)</u>	<u>Average Body length (cm)</u>	<u>Average Shoulder height (cm)</u>
1983-84	F	52	58 (22-145)	113 (42-170)	55 (16-76)
	M	74	81 (20-198)	115 (47-149)	61 (19-90)
1984-85	F	64	62 (18-150)	113 (77-142)	58 (40-74)
	M	55	82 (18-350)	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)

Table 16. Comparison of wild hogs harvested on Big Cypress Wildlife Management Area in the Stairsteps and Bear Island units, 1984-86.

<u>Year</u>	<u>Unit</u>	<u>Sample size</u>	<u>Average Dressed weight (lbs)</u>	<u>Average Body length (cm)</u>	<u>Average Shoulder height (cm)</u>
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)

BIG CYPRESS WILDLIFE MANAGEMENT AREA

(564,320 Acres)



BIG CYPRESS

WILDLIFE MANAGEMENT
AREA
1985-86

REGULATIONS SUMMARY AND AREA MAP



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

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

For information pertaining to hunting on private lands and trapping, consult the 1985-86 Florida Hunting Handbook and the 1985-86 Guidelines for the Taking of Furbearing Animals in Florida. These publications are available from any Commission office as well as county tax collectors and their subagents.

PERMIT AND LICENSE INFORMATION:

Persons utilizing the wildlife management areas are required to have appropriate licenses and permits. Florida residents who are 65 years of age or older and persons certified totally and permanently disabled may obtain exemption certificates for most licenses and permits from the county tax collector. Hunters under age 15 are required to have a wildlife management area permit stamp but are exempt from other permit or license requirements.

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

1. **Hunting License:** Florida hunting license may be purchased from offices of county tax collectors or their subagents. Information on the categories and costs of hunting licenses is available in the Florida Hunting Handbook.
2. **Wildlife Management Area Permit:** This permit may be purchased from county tax collectors or their subagents. It costs \$10 for adults and \$2.50 for children under 15 years of age.
3. **Quota Permits:** A no-cost regular quota hunt permit is required to hunt on the Bear Island, Stairsteps, Loop Road, Monument and Deep Lake units of this wildlife management area if hunting November 9 through 17 of the general gun hunt. To apply obtain a regular quota hunt application and follow the printed instructions. Applications are available at no charge from county tax collectors or their subagents on or about June 1.

250 regular quota hunt permits are available for the Bear Island Unit, 1,000 regular quota hunt permits available for the Stairsteps unit, 1,000 regular quota hunt permits available for the Monument and Deep Lake units and 250 regular quota permits available for the Loop Road unit. 250 quota permits are available on a first come-first served basis at the check station during the muzzleloading gun hunt in the Bear Island Unit (October 5 through 13).

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

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

4. **Archery Permit:** This \$5 permit is required when hunting during the archery hunt. This permit is available from county tax collectors or their subagents.

5. **Muzzleloading Gun Permit:** This \$5 permit is required when hunting during the muzzleloading gun hunt. This permit is available from county tax collectors or their subagents.

6. **State Waterfowl Stamp:** This \$3.25 stamp is required while hunting ducks and may be purchased from county tax collectors or their subagents.

7. **Federal Duck Stamp:** Any hunter 16 years of age or older must possess a federal duck stamp while hunting ducks. The \$7.50 stamp is available at post offices.

8. **U.S. Park Service Off-Road Vehicle Registration Permit:** Any vehicle used off roads on the Big Cypress Wildlife Management Area must have this permit. This includes any vehicle having a current license plate. The U.S. Park Service off-road vehicle registration permit is available at the Oasis Ranger Station at no charge. Call for more information: 813/695-4111 or 813/695-2000.

9. **Special Big Cypress Vehicle Permit:** Any airboat or vehicle used for hunting, fishing or frogging in the Big Cypress Wildlife Management Area must have this permit. This permit is free and must be renewed annually. Applications for special Big Cypress vehicle permits are available at regional offices of the Commission.

BAG AND POSSESSION LIMITS:

1. Deer, wild hogs and bearded turkeys—Daily limit 1, season limit 2 for each game species (all hunts combined).
2. Gray squirrel, quail or rabbit—Daily limit 12, possession limit 24, for each game species.
3. Raccoon, opossum, armadillo, beaver, coyote, skunk and nutria—No bag limit.
4. Migratory game birds—See Migratory Game Bird Hunting Regulations pamphlet.

GENERAL WILDLIFE MANAGEMENT AREA REGULATIONS:

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

	APPENDIX B Summary of Vehicle Surveys conducted on the Big Cypress Wildlife Management Area during selected hunting seasons, 1983-85.														
	Vehicles Only			ATC			Swamp Buggy			Airboat			Totals		
	'83-'84	'84-'85	'85-'86	'83-'84	'84-'85	'85-'86	'83-'84	'84-'85	'85-'86	'83-'84	'84-'85	'85-'86	'83-'84	'84-'85	'85-'86
ARCHERY															
Opening Weekend	52a	141	90	41a	56	21	22a	32	38	10a	4	5	125a	233	154
1st week	41a	74	60	18a	18	4	14a	19	18	8a	7	12	81a	118	94
2nd week	63a	61	45	26a	36	2	24a	13	21	0a	6	4	113a	116	72
3rd week	36a	79	56	22a	29	9	11a	23	29	7a	10	0	76a	141	94
MUZZLE-LOADING															
Opening Weekend	196	179	111 _d	85	54	10 _d	84	87	39 _d	26	19	9 _d	391	339	169 _d
1st week	75 _b	121	71	12 _b	48	9	17 _b	53	55	10 _b	12	7	114 _b	234	142
2nd week	82 _b	97	81	28 _b	31	7	41 _b	43	38	26 _b	9	7	177 _b	180	133
GENERAL GUN															
Opening Weekend	367	406	348	142	134	41	164	219	157	140	140	128	813	899	674
Midweek	112	53	49	24	28	12	60	61	61	50	24 _c	29 _c	246	166	151
1st week	204 _b	242	179	98 _b	66	33	60 _b	94	91	39 _b	57	32	401 _b	459	335
2nd week	272 _a	307	171	90 _a	96	10	96 _a	87	60	5 _a	30	21	463 _a	520	262
3rd week	172	206	250	84	69	17	65	64	110	31	26	2	352	365	379
4th week	103 _a	225	137	55 _a	63	10	56 _a	68	49	22 _a	31	16	236 _a	387	212
5th week	104 _a	177	105	33 _a	52	9	31 _a	59	50	24 _a	7	11	192 _a	295	175
6th week	81	138	78	13	55	4	19	43	45	9	15	10	122	251	137
7th week	88 _a	245	167	24 _a	89	7	36 _a	93	67	10 _a	16	18	158 _a	443	259
8th week	231	338	249	109	79	10	112	93	92	46	33	12	498	543	363

a) Excluding Loop Rd. Pinecrest to Monroe Station and/or Co. Rds. 837 & 841 and/or U.S. 41, TRR to west boundary and/or Loop Rd. 40-mile bend to Pinecrest

b) Excluding several locations

c) Includes Mitchells Landing

d) Main campground, Bear Island, not counted

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

APPENDIX C

Summary of biological data
collected on deer harvested
during the 1985-86 hunting
seasons on Big Cypress
Wildlife Management Area.

BIG CYPRESS		WILDLIFE MANAGEMENT AREA						REPORT # 4
DATA COLLECTED ON		93 DEER (93 BUCKS, 0 DOES) IN THIS AREA IN THE 1985-86 SEASON						
AGE		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX								
BUCKS		5.4% (5)	55.9% (52)	20.4% (19)	12.9% (12)	2.2% (2)	3.2% (3)	100.0% (93)
DOES		***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL		5.4% (5)	55.9% (52)	20.4% (19)	12.9% (12)	2.2% (2)	3.2% (3)	100.0% (93)
AVERAGES								TOTAL 1.5+
LIVE WEIGHT (LBS)								
C-1	BUCKS	***** (0) (*** TO ***)	89.00 (2) (85 TO 93)	100.00 (2) (95 TO 105)	***** (0) (*** TO ***)	145.00 (1) (145 TO 145)	***** (0) (*** TO ***)	104.60 (5) (85 TO 145)
	DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
	TOTAL	***** (0) (*** TO ***)	89.00 (2) (85 TO 93)	100.00 (2) (95 TO 105)	***** (0) (*** TO ***)	145.00 (1) (145 TO 145)	***** (0) (*** TO ***)	104.60 (5) (85 TO 145)
BODY WEIGHT (LBS)								
BUCKS		51.67 (3) (45 TO 60)	60.73 (30) (50 TO 75)	73.18 (11) (40 TO 90)	80.40 (10) (70 TO 108)	80.00 (1) (80 TO 80)	77.50 (2) (75 TO 80)	67.89 (54) (40 TO 108)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		51.67 (3) (45 TO 60)	60.73 (30) (50 TO 75)	73.18 (11) (40 TO 90)	80.40 (10) (70 TO 108)	80.00 (1) (80 TO 80)	77.50 (2) (75 TO 80)	67.89 (54) (40 TO 108)
CONDITION INDEX								
BUCKS		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL		***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
MAIN PEAK CIRCUM. (CM)								
BUCKS		3.11 (4) (1.70-4.00)	4.52 (57) (3.00-7.00)	5.93 (19) (3.00-7.50)	7.20 (11) (6.00-8.50)	8.62 (2) (7.50-9.50)	8.17 (1) (7.00-9.00)	5.49 (85) (3.00-9.50)

WESS	WILDLIFE MANAGEMENT AREA						REPORT # 4
	0.5	1.5	2.5	3.5	4.5	5.5+	
MAIN BEAM LENGTH (CM)							TOTAL 1.5+
BUCKS	5.49 (4) (3.50-10.00)	11.91 (5) (3.50-22.00)	22.49 (19) (11.00-37.00)	28.45 (11) (14.00-46.00)	27.87 (2) (12.00-42.00)	40.00 (3) (39.00-41.00)	18.31 (85) (3.50-46.00)
NUMBER OF POINTS							
2	4 (100.00%)	26 (76.47%)	5 (31.25%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	31 (46.97%)
3	0 (0.00%)	3 (8.82%)	0 (0.00%)	1 (9.09%)	1 (50.00%)	0 (0.00%)	5 (7.58%)
4	0 (0.00%)	4 (11.76%)	4 (25.00%)	3 (27.27%)	0 (0.00%)	0 (0.00%)	11 (16.67%)
5	0 (0.00%)	1 (2.94%)	1 (6.25%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (3.03%)
6	0 (0.00%)	0 (0.00%)	3 (18.75%)	3 (27.27%)	0 (0.00%)	1 (33.33%)	7 (10.61%)
7	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (18.18%)	1 (50.00%)	0 (0.00%)	3 (4.55%)
8	0 (0.00%)	0 (0.00%)	3 (18.75%)	1 (9.09%)	0 (0.00%)	2 (66.67%)	6 (9.09%)
9	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (9.09%)	0 (0.00%)	0 (0.00%)	1 (1.52%)
10	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
11	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
12	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
AVERAGE	2.0	2.4	4.6	5.8	5.0	7.3	3.8

SUMMARY OF REPRODUCTION

FAWNS PER EXAMINED DOE
FROM FETUS COLLECTIONS

*** (0)

*** (0)

*** (0)

*** (0)

*** (0)

*** (0)

*** (0)

IN UTERO SEX RATIO MALE/FEMALE:

*****Z/*****Z

*****Z/*****Z

*****Z/*****Z

*****Z/*****Z

*****Z/*****Z

*****Z/*****Z

AVG. CONCEPTION DATE ***** (0)
(*****-*****)

AVG. PARTURITION DATE ***** (0)
(*****-*****)

NUMBER OF DOES WITH 0 FETUSES = 0 (*****Z)
1 FETUS = 0 (*****Z)
2 FETUSES = 0 (*****Z)
3 FETUSES = 0 (*****Z)

ADROMASUM PARASITE COUNT SUMMARY

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

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

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

NUMBER LARGE WORMS

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

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

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

% OF EXAMINED DEER WITH LUNG WORMS : ***** (0 OUT OF 0)

AVERAGE NO. OF LUNG WORMS PER INFECTED DEER : *** (*** TO ***)

% OF EXAMINED DEER WITH LIVER FLUKES : ***** (0 OUT OF 0)

AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER : *** (*** TO ***)

BIG CYPRESS

DATA COLLECTED ON

28 DEER (28 BUCKS,

O DOES) IN THIS AREA IN THE 1985-86 SEASON

AGE

HARVEST BY SFX

WILDLIFE MANAGEMENT AREA

ZONE NO. 1

REPORT # 1

	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
BUCKS	14.3Z (4)	46.4Z (13)	21.4Z (6)	10.7Z (3)	7.1Z (2)	0.0Z (0)	100.0Z (28)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	14.3Z (4)	46.4Z (13)	21.4Z (6)	10.7Z (3)	7.1Z (2)	0.0Z (0)	100.0Z (28)
AVERAGES							TOTAL 1.5+
LIVE WEIGHT (LBS)							
BUCKS	***** (0)	93.00 (93)	95.00 (95)	***** (0)	145.00 (145)	***** (0)	111.00 (93 TO 145)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	***** (0)	93.00 (93)	95.00 (95)	***** (0)	145.00 (145)	***** (0)	111.00 (93 TO 145)
30Z WEIGHT (LBS)							
BUCKS	51.67 (45 TO 60)	63.27 (50 TO 75)	77.00 (65 TO 85)	92.67 (80 TO 108)	80.00 (80 TO 80)	***** (0)	71.95 (50 TO 108)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	51.67 (45 TO 60)	63.27 (50 TO 75)	77.00 (65 TO 85)	92.67 (80 TO 108)	80.00 (80 TO 80)	***** (0)	71.95 (50 TO 108)
CONDITION INDEX							
BUCKS	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
MAIN DEAN CIRCUM. (CM)							
BUCKS	3.11 (2.2(- 4.00)	4.97 (3.00- 7.00)	6.10 (5.00- 7.50)	7.58 (6.00- 8.50)	8.62 (7.50- 9.50)	***** (0)	5.78 (3.00- 9.50)

PRESS		WILDLIFE MANAGEMENT AREA						REPORT # 1	
AGE		ZONE NO. 1							
MAIN BEAM LENGTH (CM)		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+	
BUCKS		5.49 (4) (3.50-10.00)	12.19 (12) (3.50-22.00)	28.55 (6) (21.00-37.00)	31.08 (3) (23.00-46.00)	27.87 (2) (12.00-42.00)	***** (0) (*****-*****)	20.48 (23) (3.50-46.00)	
NUMBER OF POINTS									
2		4 (100.00%)	6 (66.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	6 (33.33%)	
3		0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (50.00%)	0 (*****)	1 (5.56%)	
4		0 (0.00%)	2 (22.22%)	0 (0.00%)	1 (33.33%)	0 (0.00%)	0 (*****)	3 (16.67%)	
5		0 (0.00%)	1 (11.11%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	1 (5.56%)	
6		0 (0.00%)	0 (0.00%)	1 (25.00%)	1 (33.33%)	0 (0.00%)	0 (*****)	2 (11.11%)	
7		0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (50.00%)	0 (*****)	1 (5.56%)	
8		0 (0.00%)	0 (0.00%)	3 (75.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	3 (16.67%)	
9		0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (33.33%)	0 (0.00%)	0 (*****)	1 (5.56%)	
10		0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	0 (0.00%)	
11		0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	0 (0.00%)	
12		0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (*****)	0 (0.00%)	
AVERAGE		2.0	2.8	7.5	6.3	5.0	4.7		

SUMMARY OF REPRODUCTION

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

SPERMATOPHYTES COUNT SUMMARY

NUMBER LARGE WORMS

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

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

PIG CYPRESS

DATA COLLECTED ON
AGE

HARVEST BY SEX

WILDLIFE MANAGEMENT AREA

ZONE NO. 2

REPORT # 2

1 DEER (1 BUCKS, 0 DOES) IN THIS AREA IN THE 1985-86 SEASON

	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
BUCKS	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (1)	0.0% (0)	0.0% (0)	100.0% (1)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	0.0% (0)	0.0% (0)	0.0% (0)	100.0% (1)	0.0% (0)	0.0% (0)	100.0% (1)
AVERAGES							TOTAL 1.5+
LIVE WEIGHT (LBS)							
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
30% WEIGHT (LBS)							
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	80.00 (1) (80 TO 80)
CONDITION INDEX							
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
MAIN REAM CIRCUM. (CM)							
BUCKS	***** (0) (*****-*****)	***** (0) (*****-*****)	***** (0) (*****-*****)	6.25 (1) (6.00- 6.50)	***** (0) (*****-*****)	***** (0) (*****-*****)	6.25 (1) (6.00- 6.50)

ESS

WILDLIFE MANAGEMENT AREA ZONE NO. 2

RAIN REAM LENGTH (CM)

REPORT # 2
TOTAL 1.5+

RUCKS

NUMBER OF RUCKS

	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
AVERAGE	0	0	0	0	0	0

SUPMARY OF REPRODUCTION

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

AROMASUM PARASITE COUNT SUMMARY

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

2 OF EXAMINED DEER WITH LUNG WORMS

AVERAGE NO. OF LUNG WORMS PER INFECTED DEER : ***** (0)

3 OF EXAMINED DEER WITH LIVER FLUKES

AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER : ***** (0)

NUMBER LARGE WORMS

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

ADULTS

TOTAL

0 OUT OF 0

0 OUT OF 0

0 OUT OF 0

NUMBER OF DOES WITH
0 FETUSES =
1 FETUSES =
2 FETUSES =
3 FETUSES =

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

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

***** (0)

WILDLIFE MANAGEMENT AREA ZONE NO. 3

REPORT # 3

DATA COLLECTED ON 7 DEER (7 BUCKS, 0 DOES) IN THIS AREA IN THE 1985-86 SEASON

AGE

0.5 1.5 2.5 3.5 4.5 5.5+ TOTAL

BUCKS

DOES

TOTAL

AVERAGES

LIVE WEIGHT (LBS)

BUCKS

DOES

TOTAL

30% WEIGHT (LBS)

BUCKS

DOES

TOTAL

CONDITION INDEX

BUCKS

DOES

TOTAL

DATA DEAN CIRCUM. (CM)

BUCKS

DOES

TOTAL

BUCKS

DOES

TOTAL

BUCKS

DOES

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BUCKS

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BUCKS

	WILDLIFE MANAGEMENT AREA						REPORT # 3
	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
BUCKS	***** (0)	11.87 (2)	20.53 (3)	34.13 (2)	***** (0)	***** (0)	21.94 (7)
	(*****-*****)	(8.50-15.00)	(13.00-30.00)	(33.50-35.00)	(*****-*****)	(*****-*****)	(8.50-35.00)
NUMBER OF POINTS							
2	0(*****Z)	2(100.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	2(28.57Z)
3	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
4	0(*****Z)	0(0.00Z)	2(66.67Z)	0(0.00Z)	0(*****Z)	0(*****Z)	2(28.57Z)
5	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
6	0(*****Z)	0(0.00Z)	1(33.33Z)	0(0.00Z)	0(*****Z)	0(*****Z)	1(14.29Z)
7	0(*****Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(*****Z)	0(*****Z)	1(14.29Z)
8	0(*****Z)	0(0.00Z)	0(0.00Z)	1(50.00Z)	0(*****Z)	0(*****Z)	1(14.29Z)
9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(*****Z)	0(0.00Z)
AVERAGE	****	2.0	4.7	7.5	****	****	4.7

SUMMARY OF REPRODUCTION

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

NUMBER OF DOES WITH 0 FETUSES	= 0(*****Z)
1 FETUS	= 0(*****Z)
2 FETUSES	= 0(*****Z)
3 FETUSES	= 0(*****Z)

ARCHAEOLOGICAL PARASITE COUNT SUMMARY

NUMBER LARGE WORMS

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

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

BIG CYPRESS

WILDLIFE MANAGEMENT AREA ZONE NO. 4

DATA COLLECTED ON 15 DEER (15 BUCKS, 0 DOES) IN THIS AREA IN THE 1985-86 SEASON

REPORT # 4

AGE	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX							
BUCKS	0.0% (0)	53.3% (8)	20.0% (3)	13.3% (2)	0.0% (0)	13.3% (2)	100.0% (15)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	0.0% (0)	53.3% (8)	20.0% (3)	13.3% (2)	0.0% (0)	13.3% (2)	100.0% (15)
AVERAGES							
LIVE WEIGHT (LBS)							TOTAL 1.5+
BUCKS	***** (0) (*** TO ***)	85.00 (1) (85 TO 95)	105.00 (1) (105 TO 105)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	95.00 (2) (85 TO 105)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	85.00 (1) (85 TO 95)	105.00 (1) (105 TO 105)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	95.00 (2) (85 TO 105)
30% WEIGHT (LBS)							
BUCKS	***** (0) (*** TO ***)	60.71 (7) (50 TO 75)	65.00 (2) (40 TO 90)	70.00 (1) (70 TO 70)	***** (0) (*** TO ***)	77.50 (2) (75 TO 80)	65.00 (12) (40 TO 90)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	60.71 (7) (50 TO 75)	65.00 (2) (40 TO 90)	70.00 (1) (70 TO 70)	***** (0) (*** TO ***)	77.50 (2) (75 TO 80)	65.00 (12) (40 TO 90)
CONDITION INDEX							
BUCKS	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
DOES	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
TOTAL	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)	***** (0) (*** TO ***)
HAIR BEAM CIRCUM. (CM)							
BUCKS	***** (0) (*****-*****)	4.46 (9) (3.50-6.00)	5.30 (3) (3.00-6.50)	6.75 (1) (6.50-7.00)	***** (0) (*****-*****)	8.75 (2) (8.00-9.00)	5.56 (14) (3.00-9.00)

WILDLIFE MANAGEMENT AREA		ZONE NO. 4						REPORT # 4
		0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)								
BUCKS		***** (0) (*****-*****)	10.59 (3) (7.00-15.00)	18.30 (3) (11.00-25.00)	23.00 (1) (21.00-25.00)	***** (0) (*****-*****)	40.25 (2) (40.00-41.00)	18.23 (14) (7.00-41.00)
NUMBER OF POINTS								
C-10	2	0(*****Z)	5(100.00Z)	1(50.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	6(60.00Z)
	3	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	4	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	5	0(*****Z)	0(0.00Z)	1(50.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	1(10.00Z)
	6	0(*****Z)	0(0.00Z)	0(0.00Z)	1(100.00Z)	0(*****Z)	0(0.00Z)	1(10.00Z)
	7	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	8	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	2(100.00Z)	2(20.00Z)
	9	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	10	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	11	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	12	0(*****Z)	0(0.00Z)	0(0.00Z)	0(0.00Z)	0(*****Z)	0(0.00Z)	0(0.00Z)
	AVERAGE	****	2.0	3.5	6.0	****	8.0	3.9

SUMMARY OF REPRODUCTION

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

APOMASUM PARASITE COUNT SUMMARY

FAVNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

NUMBER LARGE WORMS

FAVNS	***** (0) (*****-*****)
ADULTS	***** (0) (*****-*****)
TOTAL	***** (0) (*****-*****)

% OF EXAMINED DEER WITH LUNG WORMS	1 ***** (0 OUT OF 0)
AVERAGE NO. OF LUNG WORMS PER INFECTED DEER	1 *** (*** TO ***)
% OF EXAMINED DEER WITH LIVER FLUKES	1 ***** (0 OUT OF 0)
AVERAGE NO. OF LIVER FLUKES PER INFECTED DEER	1 *** (*** TO ***)

WILDLIFE MANAGEMENT AREA

ZONE NO. 5

DATA COLLECTED ON 42 DEER (42 BUCKS, 0 DOES) IN THIS AREA IN THE 1985-86 SEASON

AGE	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL
HARVEST BY SEX							
BUCKS	2.42 (1)	69.02 (29)	16.72 (7)	9.52 (4)	0.02 (0)	2.42 (1)	100.02 (42)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	2.42 (1)	69.02 (29)	16.72 (7)	9.52 (4)	0.02 (0)	2.42 (1)	100.02 (42)
AVERAGES							TOTAL 1.5+

LIVE WEIGHT (LBS)

BUCKS	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)

302 WEIGHT (LBS)

BUCKS	***** (0)	58.42 (12)	72.50 (60)	75.25 (70)	***** (0)	***** (0)	64.60 (50)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	***** (0)	58.42 (12)	72.50 (60)	75.25 (70)	***** (0)	***** (0)	64.60 (50)

CONDITION INDEX

BUCKS	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
DOES	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)
TOTAL	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)	***** (0)

HAIR MEAS. CIRCUM. (CM)

BUCKS	***** (0)	4.55 (29)	6.19 (7)	7.06 (4)	***** (0)	7.00 (1)	5.23 (40)
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WILDLIFE MANAGEMENT AREA	ZONE NO. 5						REPORT # 5
	0.5	1.5	2.5	3.5	4.5	5.5+	TOTAL 1.5+
MAIN BEAM LENGTH (CM)							
PUCKS	***** (0) (*****-*****)	12.13 (29) (5.00-21.00)	20.50 (7) (14.00-25.00)	26.87 (4) (19.00-34.50)	***** (0) (*****-*****)	39.50 (1) (39.00-40.00)	16.27 (40) (5.00-40.00)
NUMBER OF POINTS							
2	0(*****Z)	13(72.22%)	4(97.14%)	0(0.00%)	0(*****Z)	0(0.00%)	17(56.67%)
3	0(*****Z)	3(16.67%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	3(10.00%)
4	0(*****Z)	2(11.11%)	2(28.57%)	2(50.00%)	0(*****Z)	0(0.00%)	6(20.00%)
5	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
6	0(*****Z)	0(0.00%)	1(14.29%)	1(25.00%)	0(*****Z)	1(100.00%)	3(10.00%)
7	0(*****Z)	0(0.00%)	0(0.00%)	1(25.00%)	0(*****Z)	0(0.00%)	1(3.33%)
8	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
9	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
10	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
11	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
12	0(*****Z)	0(0.00%)	0(0.00%)	0(0.00%)	0(*****Z)	0(0.00%)	0(0.00%)
AVERAGE	****	2.4	3.1	5.3	****	6.0	3.1

SUMMARY OF REPRODUCTION

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

ABOMASUM PARASITE COUNT SUMMARY

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

NUMBER LARGE WORMS

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

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