

1994

Ref. Mgr. _____
 Asst. Mgr. _____
 Biologist _____
 Off. Asst. _____
 File _____

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Alligator Survey Data Conversion

Conversion Formula:

Y = amount of available habitat surveyed = 469.16 acres
 X = number of alligators counted = 60
 A = alligators/acre = $X/Y = 0.13$
 M = tidal marsh = 2,899 acres
 B = beach = 377 acres
 F = freshwater lakes and cattail = 563 acres
 S = sawgrass marsh = 1,144 acres
 W = saltwater ponds = 148 acres
 T = total refuge population = $MA(.5) + BA(.01) + FA + SA(.30) + WA$

ASSUMPTIONS:

- (1) Tidal marsh (M) has half the gator density found in freshwater lakes (F).
- (2) Beach habitat (B) has only one hundredth the gator density of freshwater lakes.
- (3) Sawgrass marsh (S) has 30 percent of the gator density found in freshwater lakes.
- (4) Saltwater ponds (W) have the same gator density as freshwater lakes.

For Example - 1986 Data :

Y = 469.16 X = 150 A = .32

$$T = (2,899)(.32)(.5) + 377(.32)(.01) + 563(.32) + 1144(.32)(.30) + 148(.32) = 464 + 1 + 180 + 110 + 47 = 802.$$

1994 Data

~~Y = 469.16~~
 Y = 469.16 X = 60 A = 0.13

$$T = (2,899)(.13)(.5) + 377(.13)(.01) + 563(.13) + 1144(.13)(.30) + 148(.13) =$$

$$= 188.44 + 0.49 + 73.19 + 44.62 + 19.24$$

$$= 326$$

ALLIGATOR SURVEY SUMMARY SHEET

Observer R. Cordray, T. Gay, R. GayDate 8/8/94

	PONDS 1-3	POND 4	OYSTER POND	TOTAL
WEATHER: <u>mostly clear, stars shining</u>				
0-1				0
1-2				0
2-3				0
3-4			1	1
4-5	1		1	2
5-6	1		4	5
* Unknown <6			2	2
6-7	6		4	10
7-8		1		1
8-9		1	5	6
9-10				0
Over 10	1	2		3
* Unknown >6	1			1
REMARKS: (include any changes in vegetative cover)	13	1	15	29
				60

*Observed, but could not approach to identify size. Classify as less or greater than 6.

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route St. Vincent Creek,
Lakes 1-4, Oyster Pond

Observer Randy Cordray, Tommy and Robert Gay Date 8/8/94

Start 9:05 P.M.

Start Oyster
9:55
end 10:15

Weather: Mostly clear, stars showing

0-1				
1-2				
2-3				
3-4				1
4-5	1			1
5-6	1			1111
* Unknown < 6				11
6-7	1	111	11	1111
7-8			1	
8-9			1	1111
9-10				
Over 10	1		11	
* Unknown > 6	1			

REMARKS: (include any changes in vegetative cover)
cattail fringe in Lakes 1 and 2 less than last year.
water level as desired in management plan Desired 8.94 Current 8.50.
water level in Systems A & B is high, lots of water throughout island
due to rainfall. Gators scattered.

No lotus noted in any ponds
grass in OP

* Observed, but could not approach to identify size. Classify as
less or greater than 6.

total
60
gators
seen

{ Lake 1 = 7 total Lake 2 = 5
2 = creek

4 = creek
5 = Lake 3

Lake 4 = 5 29 Lake
Creek 3

Survey 1
Route
See attached

Survey 2
Route
See attached

Survey 3
Route
See attached

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route SV creek Lake 1-3 Route 1Observer R. Cordray, T. Gay, R. Gay Date 8/8/94Weather: Mostly Clear, stars showing

0-1	
1-2	
2-3	
3-4	
4-5	1
5-6	1
* Unknown 15 < 6	
6-7	HHH 1
7-8	
8-9	
9-10	
Over 10	1
* Unknown 15 > 6.	1
* Unknown	HHH HHH III

REMARKS: (include any changes in vegetative cover)

See note on first sheet.

Total Survey Route 1 = 23

*Observed, but could not approach to identify size. Classify as less or greater than 6.

** Unknown: observed as set of eyes only. size not determined.

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route Lake 4 Survey Route # 2Observer R. Cordray, T. Gay, R. GayDate 8-8-94Weather: Mostly clear; stars shining

0-1

1-2

2-3

3-4

4-5

5-6

* Unknown < 6

6-7

7-8

8-9

9-10

Over 10

* Unknown > 6

~~** Unknown~~

REMARKS: (include any changes in vegetative cover)

See page 1Lake 4 Survey Total = 5

* Observed, but could not approach to identify size. Classify as less or greater than 6.

~~** Unknown~~ observed as eyes only. Size not determined.

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route Oyster land Survey Route # 3Observer R. Cordray, T. Gay, R. Gay Date 8/8/94Weather: mostly clear, stars showing

0-1	
1-2	
2-3	
3-4	1
4-5	1
5-6	
* Unknown < 6	11
6-7	
7-8	
8-9	
9-10	
Over 10	
* Unknown > 6	

** Unknown ~~||||~~ ~~||||~~ ~~||||~~

REMARKS: (include any changes in vegetative cover)

OP Total = 32

* Observed, but could not approach to identify size. Classify as less or greater than 6.

** Unknown: observe eyes only, no size determined