

Alligator Survey Data Conversion

Conversion Formula:

Y = amount of available habitat surveyed = 469.16 acres
 X = number of alligators counted
 A = alligators/acre = X/Y
 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 :

$$Y = 469.16 \quad X = 150 \quad A = .32$$

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

1995

$$Y = 469.16 \quad X = 47 \quad A = 0.10$$

$$T = (2,899)(.10)(.5) + 377(.10)(.01) + 563(.10) + 1144(.10) + 148(.10) = 145 + 1 + 56 + 114 + 15 = 251$$

~~145~~

$$= 145 + 1 + 56 + 114 + 15$$

$$= 251$$

~~326~~ Last 5 years19911992199319941995

326

~~326~~ 251

ALLIGATOR SURVEY FIELD DATA SHEET

#1

Survey Route SV Creek, Lakes 1-3

Observer Tommy, Robert, Bobby Gay & Thom Lewis

Date 28 August 95

Weather: Clear sky, warm, no wind

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 | |||||

REMARKS: (include any changes in vegetative cover)

Total - lake 1 = ~~3~~ ||||

CREEK = ||||

LAKE 2 = ~~4~~ ||||

LAKE 3 = |||||

No grass or lotus in any ponds or creek.

1 w/ gas in mouth

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

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route #2 LAKE 4

Observer Tommy, Robert & Bobby Gay, Thonleins Date 28 Aug 95

LAKE 3 gaage = 7.66

Weather: clear, warm, no wind

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 ||

REMARKS: (include any changes in vegetative cover)

LAKE 4 = 4 6 1

No grass or lotus in lake.
Cattail closing off creek to backside.

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

ALLIGATOR SURVEY FIELD DATA SHEET

Survey Route ^{#3} Crystal PondObserver Tommy, Robert, Bobby Gay, Thom Lewis Date 28 Aug 95OP gauge = 9.20
Weather: clear, warm, no wind

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 ||

REMARKS: (include any changes in vegetative cover)

TOTAL OP = |||| ||| |||

- Robert saw 8 gators between WCS and Beach,
not included in count for survey.
no lotus but some grass mats in lake.

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

ALLIGATOR SURVEY SUMMARY SHEET

Observer Thom Lewis, Robert, Tommy, Bobby Date 28 Aug 95

TOTAL = 47

	PONDS 1-3	POND 4	OYSTER POND	
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WEATHER: clear, warm, no wind

0-1	0	0	0	0
1-2	5	1	0	6
2-3	1	0	0	1
3-4	0	0	0	0
4-5	3	0	4	7
5-6	7	2	4	13
* Unknown <6	2	0	1	3
6-7	2	0	2	4
7-8	0	1	0	1
8-9	0	0	0	0
9-10	0	0	2	2
Over 10	0	0	0	0
* Unknown >6	6	2	2	10

REMARKS: (include any changes in vegetative cover) Water level high on Island
 The higher number in the range represents the estimated length (i.e. if gator estimated to be 6 feet it is placed in size class 5-6ft) if gator could not be estimated > or < 6ft for unknowns they were split evenly between those two categories. (i.e. 2 sets of eyes unknown = 1 in > and 1 < 6)

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

