

August 25, 2021

Lloyd Shoals Hydroelectric Project (FERC No. 2336-094)

Relicensing Study Reports – American Eel Abundance and Upstream Movements Updated Study Report Addendum

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Room 1-A- Dockets Room
Washington, D.C. 20426

Dear Secretary Bose:

On behalf of Georgia Power Company, Southern Company is filing with the Federal Energy Regulatory Commission (Commission) the American Eel Abundance and Upstream Movements Updated Study Report Addendum for the Wallace Dam relicensing proceeding. This report covers sampling data collected May-June 2021 and is a supplement to the updated study report filed on May 19, 2021.

If you require further information, please contact me at 404.797.9432 or cromara@southernco.com.

Sincerely,



Courtenay R. O'Mara, P.E.
Hydro Licensing & Compliance Supervisor

Enclosure

cc: FERC – Navreet Deo, Allan Creamer
Kleinschmidt – Steve Layman, Ph.D.
Troutman Sanders – Hallie Meushaw



UPDATED STUDY REPORT ADDENDUM

**AMERICAN EEL ABUNDANCE AND
UPSTREAM MOVEMENTS**

**LLOYD SHOALS HYDROELECTRIC PROJECT
(FERC No. 2336)**

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August 2021

**UPDATED STUDY REPORT ADDENDUM
 AMERICAN EEL ABUNDANCE AND UPSTREAM MOVEMENTS
 LLOYD SHOALS HYDROELECTRIC PROJECT
 (FERC No. 2336)**

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**UPDATED STUDY REPORT ADDENDUM
AMERICAN EEL ABUNDANCE AND UPSTREAM MOVEMENTS
LLOYD SHOALS HYDROELECTRIC PROJECT
(FERC No. 2336)**

1.0 INTRODUCTION

This Updated Study Report Addendum presents the results of sampling completed in May and June 2021 for Georgia Power Company’s (Georgia Power’s) American Eel Abundance and Upstream Movements Study for the Lloyd Shoals Hydroelectric Project (Lloyd Shoals Project). These results supplement those in the Updated Study Report filed by Georgia Power on May 19, 2021 (Georgia Power 2021a) and bring the study to a conclusion. The study was conducted according to the Study Plan for the Lloyd Shoals Project as approved by the Federal Energy Regulatory Commission (FERC) (Georgia Power 2019; FERC 2019), including the Study Plan Amendment for American Eel Abundance and Upstream Movements filed by Georgia Power on October 14, 2020. The study plan amendment extended the study period through June 2021 and modified the study area and sampling methods based on findings of the first year of sampling and consultation with the National Marine Fisheries Service and U.S. Fish and Wildlife Service.

This report addendum updates the study results on all American Eels captured and observed during the two-year study (2019-2021). Georgia Power included these results in the Preliminary Licensing Proposal (PLP) filed on August 3, 2021 (Georgia Power 2021b) and will use the information generated by the study to evaluate the environmental effects of its proposed action in Exhibit E of the final license application, to be filed with FERC by December 31, 2021.

2.0 METHODS

The study approach followed the FERC-approved Study Plan, as amended, using the same sampling methodology as described in the Updated Study Report (Georgia Power 2021a), to include:

- Nighttime boat electrofishing conducted in May 2021.
- Backpack electrofishing conducted in May and June 2021.
- Eel trapping conducted in May and June 2021.
- Nighttime flashlight surveys conducted in May and June 2021.

3.0 RESULTS

A total of 132 American Eels were captured or observed during sampling events in May and June 2021. Three previously tagged eels were recaptured during the May 26 sampling event, and one previously tagged eel was captured during the June 2021 sampling event. During the 2019-2021 study period, a total of 259 American Eels were captured or observed by all methods combined (Table 1). Of the 148 American Eels captured during the study, 109 individuals were tagged with passive integrated transponder (PIT) tags. A summary of environmental data and capture/observation data by method for each sampling event during the study period is presented in Table 2. Table 3 provides an updated comparison of seasonal catch rates in this study to the previous FERC relicensing study conducted in 1988 using similar methods (EA Engineering, Science, and Technology, Inc. [EA] 1990). Table 4 provides lengths, weights, and PIT tag identification numbers of individual eels captured during the 2019-2021 study period. An updated length frequency histogram for all captured eels is presented in Figure 1.

Based on the four recaptures from the May and June 2021 events, and the single recapture in November 2020, the population estimate was recalculated according to the method presented in the Updated Study Report. The recalculated population estimate for American Eel in the study area is 1,398, with upper and lower 95 percent confidence limits of 3,548 and 625, respectively.

Twenty-seven eels were detected during flashlight surveys in pools along the base of the spillway in May-June 2021 (Table 2). The vast majority were encountered in the eastern-most pools. The estimated total length of these eels ranged from about 180 to 250 millimeters (mm).

4.0 SUMMARY AND CONCLUSIONS

Similar to July 2020, catch rates for eels in May and June 2021 were similar to the previous study in 1988 (EA 1990). Flashlight surveys continued to detect eels in the eastern-most pools directly below the spillway. Additional recaptures of tagged eels yielded a population estimate for the study area with much narrower confidence limits than reported in the Updated Study Report (Georgia Power 2021a). Seasonal catch rates of American Eel were similar to those experienced in the 1988 study (EA 1990).

Overall, the results of the American Eel Abundance and Upstream Movements Study, as analyzed in the PLP (Georgia Power 2021b), demonstrate the continuing presence of a stable and healthy population of American Eel downstream of Lloyd Shoals Dam, as indicated by the similarity in seasonal catch rates and size ranges representing multiple age classes between the 1988 and 2019-2021 studies. The vast majority of available potential habitat for American Eels in the Altamaha River basin is located downstream of Lloyd Shoals Dam. In addition, there is no indication from available studies or data that the area of habitat available to American Eels downstream of the Project is limiting the growth, survival, maturation, or outmigration (for spawning) of the Altamaha River basin population.

5.0 REFERENCES

EA Engineering, Science, and Technology, Inc. (EA). 1990. Fisheries investigations of the Ocmulgee River downstream of the Lloyd Shoals hydroelectric facility. Prepared for Georgia Power Company. EA Report No. 10277.08. June 1990.

Federal Energy Regulatory Commission (FERC). 2019. Study Plan Determination for Lloyd Shoals Hydroelectric Project. May 20, 2019.

Georgia Power Company (Georgia Power). 2019. Revised Study Plan, Lloyd Shoals Hydroelectric Project FERC No. 2336. Prepared with Southern Company Generation Hydro Services, Geosyntec Consultants, and Kleinschmidt. April 2019.

Georgia Power Company (Georgia Power). 2020. Proposed Study Plan Amendment, American Eel Abundance and Upstream Movements, Lloyd Shoals Hydroelectric Project FERC No. 2336. Prepared with Kleinschmidt. October 2020.

Georgia Power Company (Georgia Power). 2021a. Updated Study Report, American Eel Abundance and Upstream Movements. Prepared with Kleinschmidt. May 2021.

Georgia Power Company (Georgia Power). 2021b. Preliminary Licensing Proposal, Lloyd Shoals Hydroelectric Project (FERC No. 2336). Prepared with Southern Company Generation Hydro Services and Kleinschmidt. August 2021.

TABLES

TABLE 1 SUMMARY OF AMERICAN EEL CAPTURED OR OBSERVED DURING THE 2019-2021 STUDY PERIOD

Survey Method	Number of Eels Captured or Observed	Number Captured	Number Tagged	Number Recaptured
Backpack electrofishing	173	124	91	3
Boat electrofishing	46	22	18	2
Flashlight	38	0	0	0
Trap	2	2	0	0
TOTAL	259	148	109	5

TABLE 2 SUMMARY OF ENVIRONMENTAL AND CAPTURE DATA FROM EEL STUDY SAMPLING EVENTS SEPTEMBER 2019-JUNE 2021

Date	Moon (% visible)	Discharge (cfs)	Water Temp. (°C)	Total Eels Captured or Observed			
				Boat	Backpack	Trap	Flashlight
09/27/2019	1.9	299	27.4	0	0	0 ³	NA
10/25/2019	9.3	493	20.8	1	1	0 ³	NA
11/26/2019	0.1	1,288	13.7	1	0	0 ³	NA
12/17/2019	69.9	2,870	10.2	0	NSF ¹	0 ³	NA
01/21/2020	11	3,565	13.6	7	NSF	0 ³	NA
03/12/2020	89.9	3,020	13.9	1	NSF	0	NA
04/10/2020	81.1	2,230	20.2	NSC ²	NSC	0	NA
05/29/2020	48.4	2,440	22.3	10	NSF	0	NA
06/24/2020	14.5	1,640	26.5	3	NSF	0	3
07/22/2020	5.7	658	28.2	7	26	1	1
08/12/2020	42.4	1,710	28.3	2	NSF	0	0
9/23/2020	49.0	2,640	22.8	2	0	0	0
10/2/2020	99.7	1,040	22.2	3	8	0	0
11/6/2020	71.8	1,070	19.7	NA	6	0	0
12/12/2020	5.9	1,110	14.3	NA	1	0	1
01/23/2021	78.6	1,150	11.8	NA	3	0	0
02/11/2021	0.2	1,930	12.9	3	3	0	0
03/12/2021	0.7	1,490	15.9	NA	3	0	1
04/20/2021	57.6	1,190	17.7	NA	24	0 ³	5
5/12/2021	0.8	2,290	20.3	NA	NA	0	8
5/26/2021	99.9	917	20.8	6	51	1	15
6/16/2021	37.1	783	23.4	NA	47	0	4
TOTAL EELS CAPTURED OR OBSERVED				46	173	2	38
TOTAL EELS CAPTURED				22	124	2	0
RECAPTURES				2	3	0	0

¹ NSF = not sampled due to high flows

² NSC = not sampled due to COVID-19

³ Traps vandalized

TABLE 3 COMPARISON OF AMERICAN EEL CAPTURE DATA TO PREVIOUS STUDY

	Catch per Unit Effort (eels per hour)	
	1988 ^a	2019-2021 ^b
Backpack Electrofishing		
Spring	14.6	14.7
Summer	37.4	23.0
Fall	5.4	3.0
Winter	1.4	2.3
Boat Electrofishing		
Spring	--	2.3
Summer	1.4	2.0
Fall	--	0.5
Winter	0.6	1.5
Lengths (mm) and Life Stages Present		
Minimum	168	127
Maximum	825	635
Mean	343	327
Standard Deviation	95	102
Life Stages	juveniles, adults	juveniles, adults

^aSource: EA (1990)

^bSource: Georgia Power (2021) and sampling results for May-June 2021

TABLE 4 AMERICAN EEL OBSERVED OR CAPTURED IN THE STUDY AREA FROM SEPTEMBER 2019-JUNE 2021

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
10/24/2019	346	69	928F126058800499	Backpack	C
10/24/2019	375	90	982F126058800404	Boat	C
11/25/2019	200*			Boat	O
1/20/2020	311	46	982F126058800424	Boat	C
1/20/2020	299	45	982F126058800456	Boat	C
1/20/2020	300*			Boat	O
1/20/2020	300*			Boat	O
1/20/2020	300*			Boat	O
1/20/2020	450*			Boat	O
1/20/2020	450*			Boat	O
3/11/2020	241	21	982F126058800413	Boat	C
5/29/2020	265	29	982F126058800481	Boat	C
5/29/2020	294	38	982F126058800482	Boat	C
5/29/2020	575	468	982F126058800489	Boat	C
5/29/2020	440	181	982F126058800492	Boat	C
5/29/2020	300*			Boat	O
5/29/2020	300*			Boat	O
5/29/2020	300*			Boat	O
5/29/2020	300*			Boat	O
5/29/2020	450*			Boat	O
5/29/2020	300*			Boat	O
6/24/2020	300*			Boat	O
6/24/2020	300*			Boat	O
6/24/2020	300*			Boat	O
6/24/2020	130*			Flashlight	O
6/24/2020	200*			Flashlight	O
6/24/2020	200*			Flashlight	O
7/22/2020	277	37	982F126058800416	Backpack	C
7/22/2020	292	47	982F126058800418	Backpack	C
7/22/2020	460	225	982F126058800419	Backpack	C
7/22/2020	268	34	982F126058800421	Backpack	C
7/22/2020	278	40	982F126058800429	Backpack	C
7/22/2020	541	343	982F126058800437	Backpack	C
7/22/2020	414	169	982F126058800439	Backpack	C
7/22/2020	267	33	982F126058800448	Backpack	C
7/22/2020	433	133	982F126058800451	Backpack	C
7/22/2020	418	164	982F126058800460	Backpack	C

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
7/22/2020	212	17	982F126058800466	Backpack	C
7/22/2020	345	85	982F126058800467	Backpack	C
7/22/2020	208	15	982F126058800468	Backpack	C
7/22/2020	335	71	982F126058800476	Backpack	C
7/22/2020	295	49	982F126058800487	Backpack	C
7/22/2020	231	23	982F126058800493	Backpack	C
7/22/2020	212	17	982F126058800496	Backpack	C
7/22/2020	184	10		Backpack	C
7/22/2020	200	16		Backpack	C
7/22/2020	232	23	982F126058800401	Boat	C
7/22/2020	358	98	982F126058800406	Boat	C
7/22/2020	310	60	982F126058800484	Boat	C
7/22/2020	300			Trap	C
7/22/2020	230*			Backpack	O
7/22/2020	230*			Backpack	O
7/22/2020	230*			Backpack	O
7/22/2020	300*			Backpack	O
7/22/2020	300*			Backpack	O
7/22/2020	300*			Backpack	O
7/22/2020	300*			Backpack	O
7/22/2020	230*			Boat	O
7/22/2020	300*			Boat	O
7/22/2020	300*			Boat	O
7/22/2020	300*			Boat	O
7/22/2020	250*			Flashlight	O
8/12/2020	470	297	982F126058800475	Boat	C
8/12/2020	210	16		Boat	C
9/23/2020	250*			Boat	O
9/23/2020	300*			Boat	O
10/2/2020	299		982F126058800402	Backpack	C
10/2/2020	359		982F126058800415	Backpack	C
10/2/2020	425		982F126058800434	Backpack	C
10/2/2020	550		982F126058800436	Backpack	C
10/2/2020	539		982F126058800453	Backpack	C
10/2/2020	393		982F126058800469	Backpack	C
10/2/2020	272		982F126058800471	Backpack	C
10/2/2020	462		982F126058800478	Backpack	C
11/5/2020	518		982F126058800404	Boat	R
11/5/2020	492		982F126058800473	Boat	C

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
11/5/2020	408		982F126058800486	Boat	C
11/6/2020	330	51	982F126058800405	Backpack	C
11/6/2020	460	197	982F126058800420	Backpack	C
11/6/2020	325	50	982F126058800427	Backpack	C
11/6/2020	257	25	982F126058800431	Backpack	C
11/6/2020	305	43	982F126058800449	Backpack	C
11/6/2020	460	168	982F126058800480	Backpack	C
12/12/2020	194	12		Backpack	C
12/12/2020	250*			Flashlight	O
1/23/2021	521	130	982F126058800411	Backpack	C
1/23/2021	310	26	982F126058800412	Backpack	C
1/23/2021	325	20	982F126058800428	Backpack	C
2/10/2021	287	11	982F126058800403	Boat	C
2/10/2021	372	67	982F126058800485	Boat	C
2/10/2021	198	8		Boat	C
2/11/2021	412	60	982F126058800440	Backpack	C
2/11/2021	246	14	982F126058800477	Backpack	C
2/11/2021	195	7		Backpack	C
3/12/2021	635	428	982F126058800463	Backpack	C
3/12/2021	250	21	982F126058800465	Backpack	C
3/12/2021	256	31	982F126058800474	Backpack	C
3/12/2021	250*			Flashlight	O
4/20/2021	286	36	982F126058800407	Backpack	C
4/20/2021	301	53	982F126058800408	Backpack	C
4/20/2021	255	28	982F126058800410	Backpack	C
4/20/2021	343	55	982F126058800414	Backpack	C
4/20/2021	371	104	982F126058800417	Backpack	C
4/20/2021	381	125	982F126058800423	Backpack	C
4/20/2021	255	34	982F126058800430	Backpack	C
4/20/2021	272	48	982F126058800433	Backpack	C
4/20/2021	464	135	982F126058800441	Backpack	C
4/20/2021	328	60	982F126058800445	Backpack	C
4/20/2021	215	23	982F126058800446	Backpack	C
4/20/2021	335	81	982F126058800450	Backpack	C
4/20/2021	271	41	982F126058800457	Backpack	C
4/20/2021	246	26	982F126058800458	Backpack	C
4/20/2021	360	87	982F126058800459	Backpack	C
4/20/2021	341	59	982F126058800462	Backpack	C
4/20/2021	230	24	982F126058800464	Backpack	C

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
4/20/2021	275	33	982F126058800495	Backpack	C
4/20/2021	294	49	982F126058800498	Backpack	C
4/20/2021	144	4		Backpack	C
4/20/2021	165	7		Backpack	C
4/20/2021	187	13		Backpack	C
4/20/2021	196	15		Backpack	C
4/20/2021	214	15		Backpack	C
4/20/2021	175*			Flashlight	O
4/20/2021	175*			Flashlight	O
4/20/2021	175*			Flashlight	O
4/20/2021	175*			Flashlight	O
4/20/2021	175*			Flashlight	O
5/12/2021	250*			Flashlight	O
5/12/2021	250*			Flashlight	O
5/12/2021	250*			Flashlight	O
5/12/2021	250*			Flashlight	O
5/12/2021	150*			Flashlight	O
5/12/2021	150*			Flashlight	O
5/12/2021	150*			Flashlight	O
5/12/2021	150*			Flashlight	O
5/25/2021	305			Backpack	C
5/25/2021	254			Backpack	C
5/25/2021	203			Backpack	C
5/25/2021	178			Backpack	C
5/25/2021	127			Backpack	C
5/25/2021	254			Backpack	C
5/25/2021	279			Backpack	C
5/25/2021	330			Backpack	C
5/25/2021	305			Backpack	C
5/25/2021	279			Backpack	C
5/25/2021	380	198	982F126058800444	Boat	C
5/25/2021	340	82	982F126058800472	Boat	C
5/25/2021	500	230	982F126058800473	Boat	R
5/25/2021	500*			Boat	O
5/25/2021	400*			Boat	O
5/25/2021	300*			Boat	O
5/25/2021	180*			Flashlight	O
5/25/2021	180*			Flashlight	O
5/25/2021	180*			Flashlight	O

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
5/25/2021	250*			Flashlight	O
5/25/2021	250*			Flashlight	O
5/25/2021	250*			Flashlight	O
5/26/2021	390	110	982F126058800423	Backpack	R
5/26/2021	270	35	982F126058800425	Backpack	C
5/26/2021	320	68	982F126058800432	Backpack	C
5/26/2021	342	82	982F126058800435	Backpack	C
5/26/2021	255	25	982F126058800442	Backpack	C
5/26/2021	325	49	982F126058800447	Backpack	C
5/26/2021	435	149	982F126058800452	Backpack	C
5/26/2021	590	382	982F126058800453	Backpack	R
5/26/2021	250	25	982F126058800454	Backpack	C
5/26/2021	280	42	982F126058800470	Backpack	C
5/26/2021	440	135	982F126058800479	Backpack	C
5/26/2021	410	96	982F126058800483	Backpack	C
5/26/2021	520	298	982F126058800490	Backpack	C
5/26/2021	385	108	982F126058800491	Backpack	C
5/26/2021	250	28		Backpack	C
5/26/2021	210	15		Backpack	C
5/26/2021	200	14		Backpack	C
5/26/2021	210	16		Backpack	C
5/26/2021	235	20		Backpack	C
5/26/2021	254			Trap	C
5/26/2021	200*			Backpack	O
5/26/2021	200*			Backpack	O
5/26/2021	200*			Backpack	O
5/26/2021	200*			Backpack	O
5/26/2021	200*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O
5/26/2021	250*			Backpack	O

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
5/26/2021	300*			Backpack	O
5/26/2021	300*			Backpack	O
5/26/2021	300*			Backpack	O
5/26/2021	300*			Backpack	O
5/26/2021	300*			Backpack	O
5/26/2021	300*			Backpack	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
5/26/2021	250*			Flashlight	O
6/16/2021	326	61	982F126058800455	Backpack	C
6/16/2021	340	71	982F126058800500	Backpack	C
6/16/2021	373	111	982F126058800422	Backpack	C
6/16/2021	283	39	982F126058800488	Backpack	C
6/16/2021	247	26	982F126058800426	Backpack	C
6/16/2021	485	209	982F126058800494	Backpack	C
6/16/2021	404	114	982F126058800443	Backpack	C
6/16/2021	287	26	982F126058800581	Backpack	C
6/16/2021	257	25		Backpack	C
6/16/2021	364	97	982F126058800519	Backpack	C
6/16/2021	296	42	982F126058800554	Backpack	C
6/16/2021	249	27		Backpack	C
6/16/2021	358	78	982F126058800583	Backpack	C
6/16/2021	254	32		Backpack	C
6/16/2021	411	132	982F126058800467	Backpack	R
6/16/2021	357	76	982F126058800509	Backpack	C
6/16/2021	371	98	982F126058800522	Backpack	C
6/16/2021	486	210	982F126058800508	Backpack	C
6/16/2021	513	260	982F126058800056	Backpack	C
6/16/2021	276	33		Backpack	C
6/16/2021	519	151	982F126058800569	Backpack	C
6/16/2021	323	62	982F126058800600	Backpack	C
6/16/2021	330	66	982F126058800512	Backpack	C
6/16/2021	473	222	982F126058800538	Backpack	C

Date	Length (mm)	Weight (grams)	Tag Number	Capture Method	Captured (C) Observed (O) Recapture (R)
6/16/2021	303	46	982F126058800585	Backpack	C
6/16/2021	209	16		Backpack	C
6/16/2021	279	28		Backpack	C
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	150*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	300*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	450*			Backpack	O
6/16/2021	250*			Flashlight	O
6/16/2021	250*			Flashlight	O
6/16/2021	250*			Flashlight	O
6/16/2021	250*			Flashlight	O

*Estimated length

FIGURES

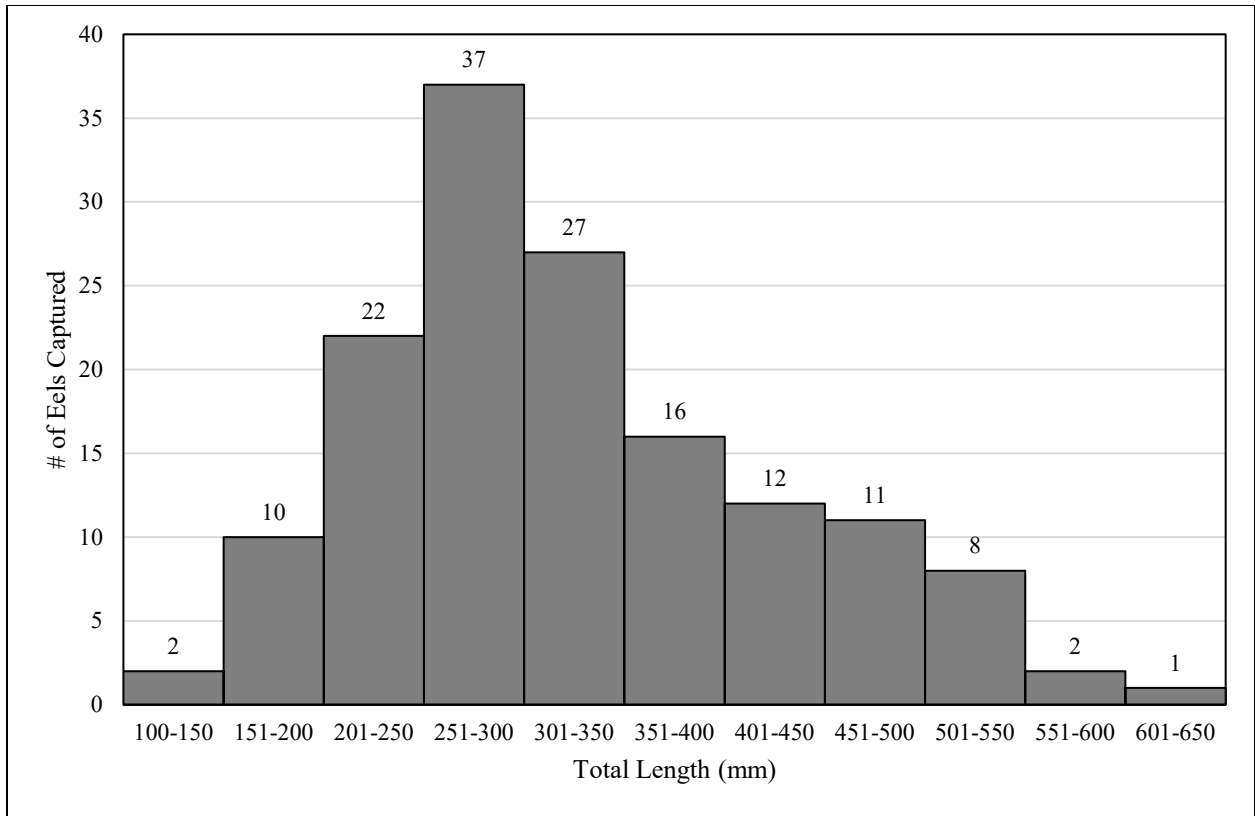


FIGURE 1 LENGTH FREQUENCY DISTRIBUTION OF AMERICAN EELS CAPTURED DURING 2019-2021 STUDY PERIOD