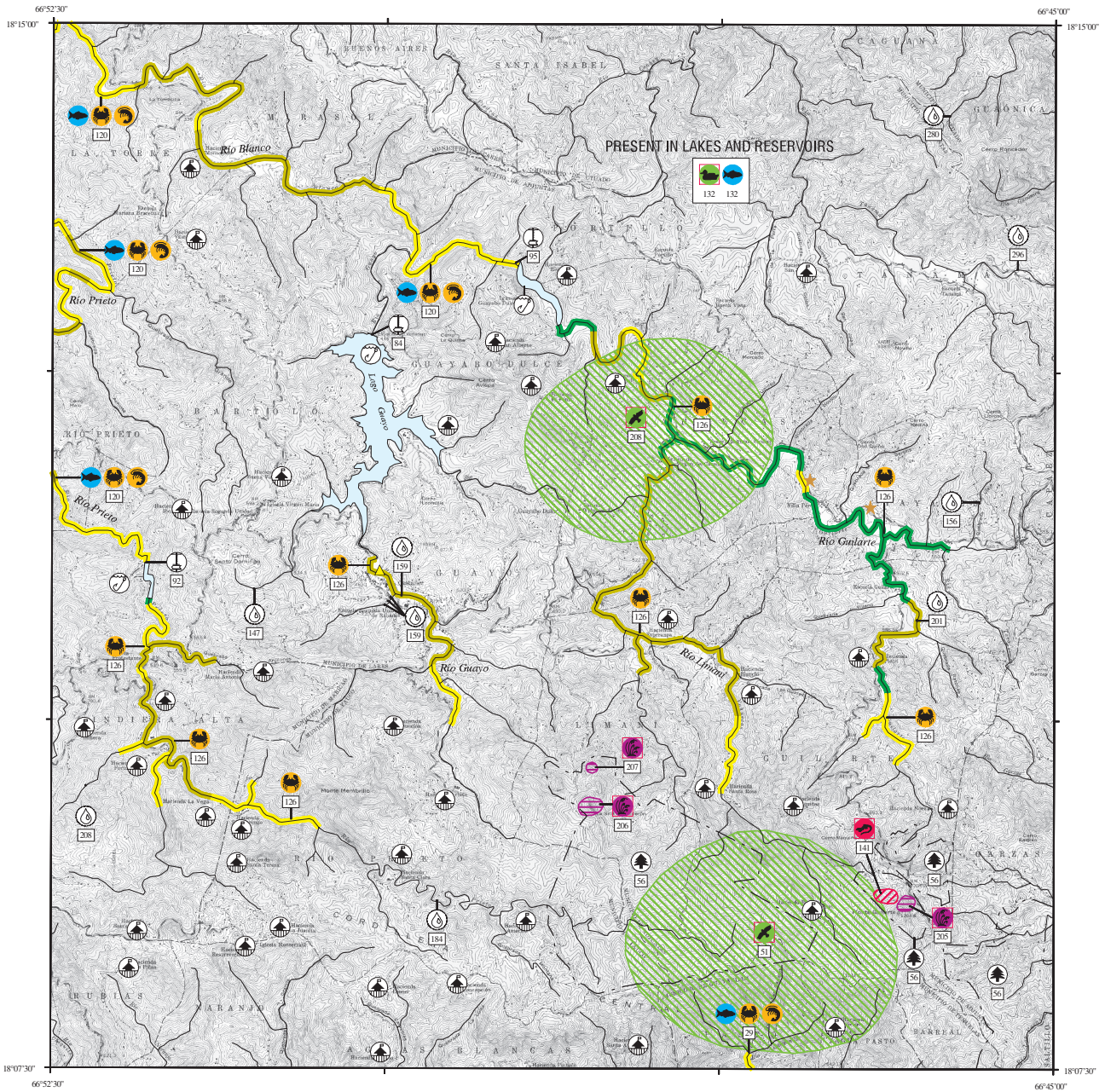
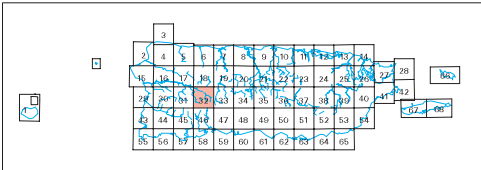


ENVIRONMENTAL SENSITIVITY INDEX MAP

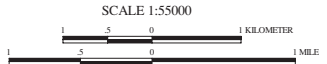


- SHORELINE HABITATS (ESI)**
- 1A EXPOSED ROCKY CLIFFS
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 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
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PUERTO RICO - ESIMAP 32

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting
51	Puerto Rican sharp-shinned hawk	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN
132	Common moorhen			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Pied-billed grebe			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Ruddy duck	S	T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-
208	Puerto Rican broad-winged hawk	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN

FISH:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
29	Native stream fish				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	APR-MAY AUG-NOV	JAN-DEC	JAN-DEC
120	Hog-nosed mullet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Native stream fish				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	APR-MAY AUG-NOV	JAN-DEC	JAN-DEC
132	Channel catfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Largemouth bass				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Redear sunfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Tilapia				X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	DEC-JUL	DEC-JUL	JAN-DEC	JAN-DEC
	White catfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC

PLANT:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
205	Cyathia dryopteroides	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
206	Polystichum calderonense	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
207	Juglans jamaicensis	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
29	Freshwater crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	-	JAN-DEC	JAN-DEC
	Native stream shrimp				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	APR-MAY AUG-NOV	JAN-DEC	JAN-DEC
120	Freshwater crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	-	JAN-DEC	JAN-DEC
	Native stream shrimp				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	APR-MAY AUG-NOV	JAN-DEC	JAN-DEC
126	Freshwater crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY AUG-NOV	APR-MAY AUG-NOV	-	JAN-DEC	JAN-DEC

REPTILE:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
141	Mottled coqui	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

HUMAN USE RESOURCES:

HUN#	Name	Owner/Manager	Contact	Phone
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FOREST:

56	BOSQUE MONTE GUILARTE	DRNA	DIVISION DE MANEJO BOSQUES ESTATALES	787/721-5495
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LOCK AND DAM:

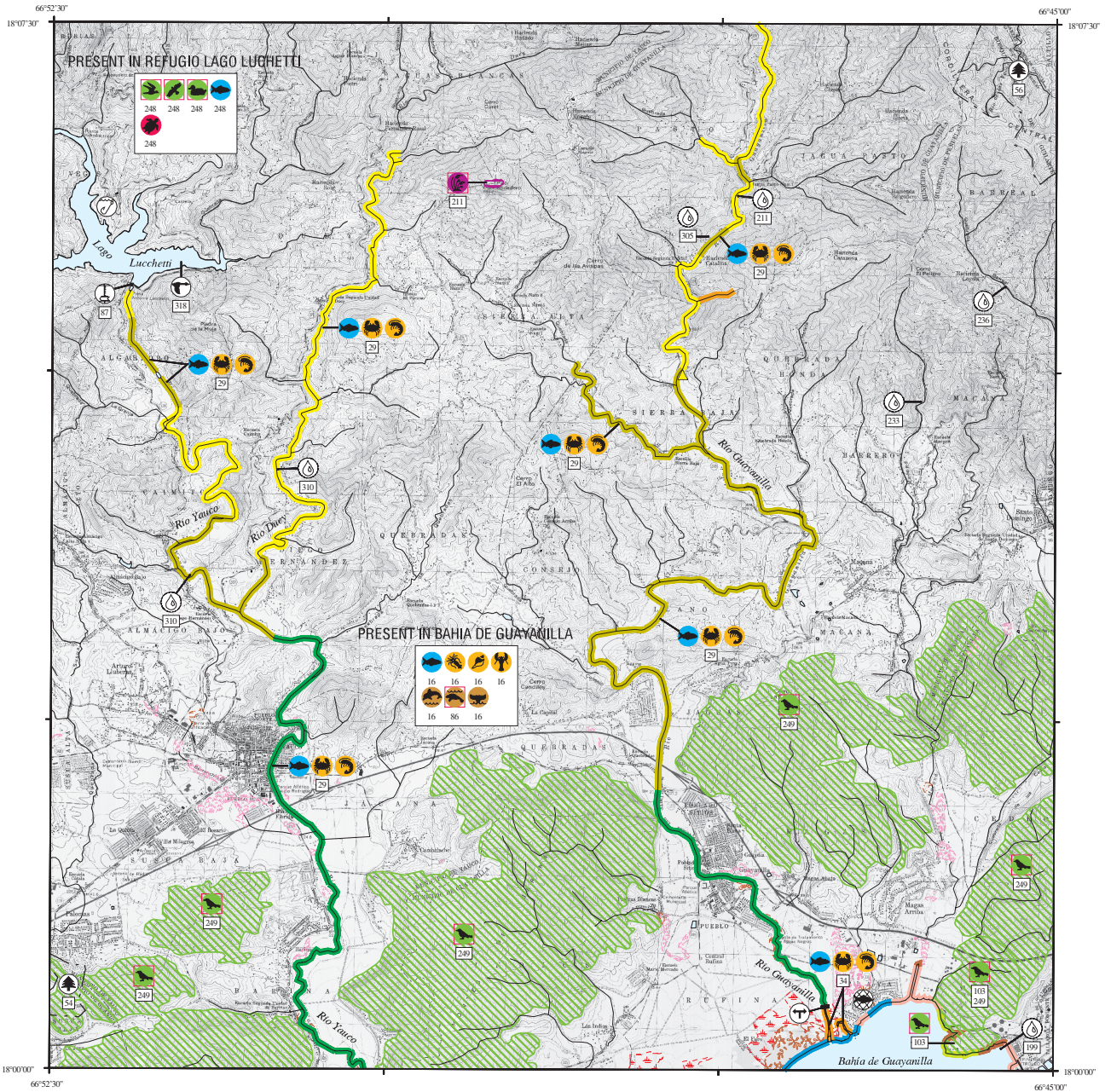
84	LAGO GUAYO DAM	PREPA	ING SANDRA MARTINEZ	787/836-8030
92	PRIETO DAM	PREPA	ING SANDRA MARTINEZ	787/836-8030
95	YAHUECAS DAM	PREPA	ING SANDRA MARTINEZ	787/836-8030

WATER INTAKE:

HUN#	Name	Owner/Manager	Location	Phone
147	BARTOLO CHLORINATION PLANT	PRASA		
156	CAPAEZ CHLORINATION PLANT	PRASA		
159	CASTANER CHLORINATION PLANT	PRASA		
184	DUEY-RIO PRIETO CHLORINATION PLANT	PRASA		
201	GUILARTE CHLORINATION PLANT	PRASA		
208	INDIERA ALTA CHLORINATION PLANT	PRASA		
280	RONCADOR PACKAGE PLANT	PRASA		
296	TANAMA PACKAGE PLANT	PRASA		

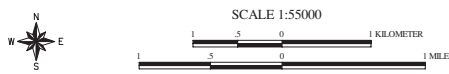
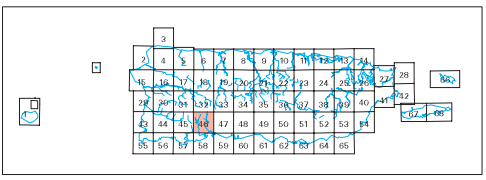
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PUERTO RICO - ESIMAP 46

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting
103	Yellow-shouldered blackbird	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP
248	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-
	Common moorhen			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Osprey				X	X	X						X	X	X	X	-
	Peregrine falcon	S	E		X	X	X						X	X	X	X	-
	Pied-billed grebe			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Ruddy duck	S	T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-
249	Puerto Rican nightjar	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL

FISH:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
16	Pelagic fish				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Reef fish				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
29	Native stream fish				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	APR-MAY	JAN-DEC	JAN-DEC
34	Native stream fish							X	X		X	X	X				-	-	-	-	-
	Nursery fish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Snook				X	X	X	X	X	X	X	X	X	X	X	X	APR-FEB	APR-FEB	JAN-DEC	JAN-DEC	JAN-DEC
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-DEC	JAN-DEC	JAN-DEC
248	Channel catfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Largemouth bass				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Redear sunfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC
	Tilapia				X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	DEC-JUL	DEC-JUL	JAN-DEC	JAN-DEC
	White catfish				X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-AUG	FEB-AUG	JAN-DEC	JAN-DEC

PLANT:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
211	Thelypteris yaucoensis	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
16	Caribbean spiny lobster				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Octopus				X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	-	JAN-DEC	JAN-DEC
	Queen conch				X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	JAN-DEC	JAN-DEC
29	Freshwater crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Native stream shrimp				X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	APR-MAY	JAN-DEC	JAN-DEC
34	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC	JAN-DEC
	Native stream shrimp						X	X		X	X	X					-	-	APR-MAY	-	-
																			AUG-NOV		

MARINE MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving
16	Dolphins				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Whales				X	X	X	X	X	X	X	X	X	X	X	X	-	-
86	West Indian manatee	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC

REPTILE:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
248	Jicotea				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	JUN-OCT	-	JAN-DEC	JAN-DEC

HUMAN USE RESOURCES:

HUN#	Name	Owner/Manager	Contact	Phone
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FOREST:

54	BOSQUE GUANICA	DRNA	DIVISION DE MANEJO BOSQUES ESTATALES	787/721-5495
56	BOSQUE MONTE GUILARTE	DRNA	DIVISION DE MANEJO BOSQUES ESTATALES	787/721-5495

LOCK AND DAM:

87	LUCCHETTI DAM	PREPA	ING. SANDRA MARTINEZ	787/836-8030
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WILDLIFE REFUGE:

318	REFUGIO LAGO LUCHETTI	DRNA	DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE	787/724-2816
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WATER INTAKE:

HUN#	Name	Owner/Manager	Location	Phone
199	GUAYANILLA POWER PLANT	PREPA		787/835-2700
211	JAGUA PASTO PACKAGE PLANT	PRASA		
233	MACANA PARTIAL PLANT	PRASA		
236	MALPASO CHLORINATION PLANT	PRASA		
305	WATER INTAKE			
310	YAUCO FILTER PLANT	PRASA		

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