

**SUPPLEMENTAL INFORMATION**

**USING CALL SURVEYS AND ECOLOGICAL NICHE MODELING TO  
ASSESS THE DISTRIBUTION AND STATUS OF CRAWFISH FROGS  
(*LITHOBATES AREOLATUS*) IN LOUISIANA, USA**

*SIMON R. BOYCOTT, JULIA E. EARL, AND DONALD B. SHEPARD*

The following material is provided by the authors and was not subjected to peer review or editing by *Herpetological Conservation and Biology*.

**TABLE S1.** Frog call survey routes, stops, and GPS coordinates (in decimal degrees and WGS84 map datum).

Route Name	Parish(es)	Stop Name	Latitude	Longitude
Como	Franklin	CM1	32.10095	-91.65547
Como	Franklin	CM10	32.12975	-91.58825
Como	Franklin	CM12	32.13464	-91.60696
Como	Franklin	CM13	32.14424	-91.60590
Como	Franklin	CM14	32.15103	-91.60399
Como	Franklin	CM16	32.15330	-91.62766
Como	Franklin	CM17	32.14402	-91.64639
Como	Franklin	CM2	32.07538	-91.65126
Como	Franklin	CM3	32.06854	-91.63671
Como	Franklin	CM4	32.07198	-91.62471
Como	Franklin	CM6	32.07962	-91.61857
Como	Franklin	CM7	32.09470	-91.60021
Como	Franklin	CM9	32.10146	-91.60267
Coushatta	Red River/De Soto	COUSH1	32.02409	-93.39550
Coushatta	Red River/De Soto	COUSH10	32.11125	-93.47120
Coushatta	Red River/De Soto	COUSH11	32.10575	-93.45734
Coushatta	Red River/De Soto	COUSH12	32.11104	-93.49219
Coushatta	Red River/De Soto	COUSH13	32.11839	-93.49150
Coushatta	Red River/De Soto	COUSH14	32.13662	-93.51277
Coushatta	Red River/De Soto	COUSH15	32.13645	-93.53791
Coushatta	Red River/De Soto	COUSH16	32.13603	-93.48874
Coushatta	Red River/De Soto	COUSH17	32.16794	-93.46119
Coushatta	Red River/De Soto	COUSH18	32.03364	-93.41493
Coushatta	Red River/De Soto	COUSH2	32.01991	-93.42672
Coushatta	Red River/De Soto	COUSH3	32.03411	-93.42820
Coushatta	Red River/De Soto	COUSH4	32.05620	-93.43192
Coushatta	Red River/De Soto	COUSH5	32.03969	-93.43625
Coushatta	Red River/De Soto	COUSH6	32.05622	-93.46488
Coushatta	Red River/De Soto	COUSH7	32.07129	-93.44051
Coushatta	Red River/De Soto	COUSH8	32.08480	-93.47889
Coushatta	Red River/De Soto	COUSH9	32.10667	-93.47778
DeRidder	Beauregard/Vernon	DR1	30.90378	-93.26813
DeRidder	Beauregard/Vernon	DR10	30.91227	-93.23540
DeRidder	Beauregard/Vernon	DR11	30.91215	-93.22177
DeRidder	Beauregard/Vernon	DR12	30.90570	-93.23448
DeRidder	Beauregard/Vernon	DR13	30.89784	-93.20397
DeRidder	Beauregard/Vernon	DR14	30.88303	-93.23012
DeRidder	Beauregard/Vernon	DR15	30.86901	-93.22179

DeRidder	Beauregard/Vernon	DR16	30.85092	-93.20666
DeRidder	Beauregard/Vernon	DR17	30.82367	-93.20884
DeRidder	Beauregard/Vernon	DR2	30.87782	-93.26811
DeRidder	Beauregard/Vernon	DR3	30.88301	-93.25538
DeRidder	Beauregard/Vernon	DR4	30.88288	-93.24702
DeRidder	Beauregard/Vernon	DR5	30.87226	-93.24280
DeRidder	Beauregard/Vernon	DR6	30.86118	-93.24294
DeRidder	Beauregard/Vernon	DR7	30.89751	-93.26594
DeRidder	Beauregard/Vernon	DR8	30.89748	-93.27029
DeRidder	Beauregard/Vernon	DR9	30.89172	-93.27658
Fairview	Allen/Beauregard	FV1	30.76399	-93.00311
Fairview	Allen/Beauregard	FV10	30.76794	-92.89817
Fairview	Allen/Beauregard	FV11	30.77428	-92.88943
Fairview	Allen/Beauregard	FV12	30.83520	-92.89296
Fairview	Allen/Beauregard	FV13	30.85045	-92.89567
Fairview	Allen/Beauregard	FV14	30.85400	-92.92738
Fairview	Allen/Beauregard	FV15	30.84379	-92.95634
Fairview	Allen/Beauregard	FV2	30.77789	-93.01783
Fairview	Allen/Beauregard	FV3	30.81874	-93.00508
Fairview	Allen/Beauregard	FV4	30.78864	-92.96855
Fairview	Allen/Beauregard	FV5	30.78633	-92.95564
Fairview	Allen/Beauregard	FV6	30.79153	-92.94946
Fairview	Allen/Beauregard	FV7	30.77367	-92.94546
Fairview	Allen/Beauregard	FV8	30.76900	-92.92395
Fairview	Allen/Beauregard	FV9	30.75874	-92.90424
Gilliam-Ida	Caddo	GI1	32.84869	-93.84682
Gilliam-Ida	Caddo	GI10	32.99385	-93.85119
Gilliam-Ida	Caddo	GI11	32.99473	-93.86094
Gilliam-Ida	Caddo	GI12	33.00568	-93.86074
Gilliam-Ida	Caddo	GI13	32.59671	-93.80615
Gilliam-Ida	Caddo	GI14	32.60943	-93.81177
Gilliam-Ida	Caddo	GI15	32.62575	-93.81942
Gilliam-Ida	Caddo	GI16	32.63613	-93.82547
Gilliam-Ida	Caddo	GI17	32.64799	-93.83253
Gilliam-Ida	Caddo	GI2	32.85512	-93.84826
Gilliam-Ida	Caddo	GI3	32.89480	-93.83828
Gilliam-Ida	Caddo	GI4	32.89383	-93.83049
Gilliam-Ida	Caddo	GI5	32.90263	-93.83443
Gilliam-Ida	Caddo	GI6	32.95187	-93.85761
Gilliam-Ida	Caddo	GI8	32.96432	-93.85666
Gilliam-Ida	Caddo	GI9	32.98369	-93.85095
Green Gable	Grant/Rapides	GG1	31.36888	-92.21695
Green Gable	Grant/Rapides	GG10	31.42612	-92.39105

Green Gable	Grant/Rapides	GG11	31.42843	-92.40302
Green Gable	Grant/Rapides	GG12	31.40196	-92.39778
Green Gable	Grant/Rapides	GG13	31.45552	-92.39906
Green Gable	Grant/Rapides	GG14	31.48507	-92.39931
Green Gable	Grant/Rapides	GG2	31.35310	-92.24354
Green Gable	Grant/Rapides	GG3	31.34800	-92.24849
Green Gable	Grant/Rapides	GG4	31.35179	-92.27428
Green Gable	Grant/Rapides	GG5	31.35142	-92.30518
Green Gable	Grant/Rapides	GG6	31.34424	-92.30286
Green Gable	Grant/Rapides	GG7	31.38491	-92.35039
Green Gable	Grant/Rapides	GG8	31.40086	-92.37346
Green Gable	Grant/Rapides	GG9	31.40507	-92.38180
Kinder	Allen	KN1	30.50752	-92.86370
Kinder	Allen	KN10	30.60231	-93.04780
Kinder	Allen	KN11	30.56865	-93.05471
Kinder	Allen	KN12	30.55814	-93.01805
Kinder	Allen	KN13	30.57604	-92.99782
Kinder	Allen	KN14	30.59333	-93.00427
Kinder	Allen	KN15	30.51612	-92.94519
Kinder	Allen	KN16	30.54749	-92.94117
Kinder	Allen	KN17	30.57616	-92.95007
Kinder	Allen	KN18	30.50290	-92.95667
Kinder	Allen	KN19	30.47930	-92.99044
Kinder	Allen	KN2	30.50198	-92.87159
Kinder	Allen	KN20	30.51657	-92.98636
Kinder	Allen	KN3	30.51850	-92.87654
Kinder	Allen	KN4	30.53205	-92.88417
Kinder	Allen	KN6	30.62380	-92.94139
Kinder	Allen	KN7	30.63130	-92.96712
Kinder	Allen	KN8	30.66843	-93.03328
Kinder	Allen	KN9	30.64917	-93.04583
Mansfield	De Soto	MD01	31.95804	-93.68358
Mansfield	De Soto	MD02	31.96564	-93.68342
Mansfield	De Soto	MD03	31.97154	-93.68367
Mansfield	De Soto	MD04	32.00175	-93.70058
Mansfield	De Soto	MD05	32.06673	-93.81203
Mansfield	De Soto	MD06	32.05458	-93.81341
Mansfield	De Soto	MD07	32.06449	-93.86734
Mansfield	De Soto	MD08	32.07332	-93.86759
Mansfield	De Soto	MD09	32.07992	-93.86747
Mansfield	De Soto	MD10	32.09369	-93.89773
Mansfield	De Soto	MD11	32.09378	-93.91468
Mansfield	De Soto	MD12	32.09387	-93.93098

Mansfield	De Soto	MD13	32.13654	-93.93484
Mansfield	De Soto	MD14	32.17978	-93.91303
Mansfield	De Soto	MD15	32.19514	-93.87119
Mansfield	De Soto	MD16	32.19506	-93.85509
Minden	Webster	MNDN1	32.62850	-93.23627
Minden	Webster	MNDN10	32.72593	-93.32213
Minden	Webster	MNDN11	32.70703	-93.32907
Minden	Webster	MNDN12	32.68917	-93.32920
Minden	Webster	MNDN2	32.64382	-93.23123
Minden	Webster	MNDN3	32.64657	-93.22388
Minden	Webster	MNDN4	32.68750	-93.21420
Minden	Webster	MNDN5	32.63830	-93.28447
Minden	Webster	MNDN6	32.64923	-93.28338
Minden	Webster	MNDN7	32.65470	-93.28072
Minden	Webster	MNDN8	32.71600	-93.26351
Minden	Webster	MNDN9	32.72433	-93.31095
Montgomery-Clarence	Winn/Grant/Natchitoches	MC1	31.61592	-92.85027
Montgomery-Clarence	Winn/Grant/Natchitoches	MC13	31.83743	-93.02192
Montgomery-Clarence	Winn/Grant/Natchitoches	MC14	31.88065	-93.01668
Montgomery-Clarence	Winn/Grant/Natchitoches	MC15	31.87021	-93.04485
Montgomery-Clarence	Winn/Grant/Natchitoches	MC16	31.88617	-93.08243
Montgomery-Clarence	Winn/Grant/Natchitoches	MC17	31.89045	-93.08768
Montgomery-Clarence	Winn/Grant/Natchitoches	MC18	31.78488	-93.00258
Montgomery-Clarence	Winn/Grant/Natchitoches	MC2	31.62018	-92.84982
Montgomery-Clarence	Winn/Grant/Natchitoches	MC3	31.61282	-92.83233
Montgomery-Clarence	Winn/Grant/Natchitoches	MC4	31.67467	-92.90486
Montgomery-Clarence	Winn/Grant/Natchitoches	MC5	31.67741	-92.91492
Montgomery-Clarence	Winn/Grant/Natchitoches	MC6	31.68863	-92.93102
Montgomery-Clarence	Winn/Grant/Natchitoches	MC7	31.76917	-92.97478
Odra	Natchitoches	ODRA1	31.55451	-92.92007
Odra	Natchitoches	ODRA10	31.53304	-92.74664
Odra	Natchitoches	ODRA11	31.54722	-92.76473
Odra	Natchitoches	ODRA12	31.56272	-92.77279
Odra	Natchitoches	ODRA13	31.57552	-92.78636
Odra	Natchitoches	ODRA14	31.59749	-92.82921
Odra	Natchitoches	ODRA15	31.59901	-92.84138
Odra	Natchitoches	ODRA16	31.58878	-92.85451
Odra	Natchitoches	ODRA17	31.57728	-92.86184
Odra	Natchitoches	ODRA18	31.56403	-92.89651
Odra	Natchitoches	ODRA19	31.56287	-92.91520
Odra	Natchitoches	ODRA2	31.53057	-92.88107
Odra	Natchitoches	ODRA3	31.52259	-92.85965
Odra	Natchitoches	ODRA4	31.49911	-92.83738

Odra	Natchitoches	ODRA5	31.50225	-92.79678
Odra	Natchitoches	ODRA7	31.51698	-92.73061
Odra	Natchitoches	ODRA8	31.52243	-92.73354
Odra	Natchitoches	ODRA9	31.53135	-92.74324
Plain Dealing	Bossier	PD01	33.00229	-93.68895
Plain Dealing	Bossier	PD02	33.00854	-93.66182
Plain Dealing	Bossier	PD03	33.00179	-93.64047
Plain Dealing	Bossier	PD04	32.99045	-93.64359
Plain Dealing	Bossier	PD05	32.98059	-93.64892
Plain Dealing	Bossier	PD06	32.97991	-93.63619
Plain Dealing	Bossier	PD07	32.95864	-93.60738
Plain Dealing	Bossier	PD08	32.96818	-93.60234
Plain Dealing	Bossier	PD09	32.97696	-93.59646
Plain Dealing	Bossier	PD10	32.95555	-93.57632
Plain Dealing	Bossier	PD11	32.92727	-93.56065
Plain Dealing	Bossier	PD12	32.91841	-93.57194
Plain Dealing	Bossier	PD13	32.91440	-93.58012
Plain Dealing	Bossier	PD14	32.90682	-93.57122
Rayville	Richland	RAY1	32.37767	-91.77471
Rayville	Richland	RAY10	32.31478	-91.83554
Rayville	Richland	RAY11	32.30154	-91.83450
Rayville	Richland	RAY12	32.29877	-91.82481
Rayville	Richland	RAY2	32.37781	-91.78779
Rayville	Richland	RAY3	32.37785	-91.79430
Rayville	Richland	RAY4	32.36333	-91.79605
Rayville	Richland	RAY5	32.35734	-91.79554
Rayville	Richland	RAY6	32.33233	-91.79836
Rayville	Richland	RAY7	32.34814	-91.81078
Rayville	Richland	RAY8	32.32428	-91.81810
Rayville	Richland	RAY9	32.32007	-91.82953
Rodessa	Caddo	ROD1	32.99340	-93.96387
Rodessa	Caddo	ROD12	32.81873	-94.01752
Rodessa	Caddo	ROD13	32.83321	-94.01341
Rodessa	Caddo	ROD14	32.79681	-93.98663
Rodessa	Caddo	ROD15	32.78977	-93.95491
Rodessa	Caddo	ROD16	32.78304	-93.92721
Rodessa	Caddo	ROD18	33.00534	-93.95727
Rodessa	Caddo	ROD2	32.97281	-94.02022
Rodessa	Caddo	ROD3	32.96295	-94.03592
Rodessa	Caddo	ROD4	32.93941	-94.04309
Rodessa	Caddo	ROD5	32.94997	-94.01411
Rodessa	Caddo	ROD6	32.93328	-93.96217
Rodessa	Caddo	ROD7	32.88801	-93.99710

Rodessa	Caddo	ROD9	32.86263	-94.02176
Shongaloo	Webster	SH1	32.97093	-93.33376
Shongaloo	Webster	SH10	33.01833	-93.35728
Shongaloo	Webster	SH11	33.01668	-93.36374
Shongaloo	Webster	SH12	33.00769	-93.38120
Shongaloo	Webster	SH13	33.00416	-93.38121
Shongaloo	Webster	SH14	32.99875	-93.38679
Shongaloo	Webster	SH15	32.98895	-93.38150
Shongaloo	Webster	SH2	32.96381	-93.34673
Shongaloo	Webster	SH3	32.97668	-93.36401
Shongaloo	Webster	SH4	32.98000	-93.36826
Shongaloo	Webster	SH5	32.99425	-93.36379
Shongaloo	Webster	SH6	33.00592	-93.35886
Shongaloo	Webster	SH7	33.00426	-93.35094
Shongaloo	Webster	SH8	33.01008	-93.34964
Shongaloo	Webster	SH9	33.01618	-93.35309
Shreveport	Caddo	SVP10	32.64023	-94.02246
Shreveport	Caddo	SVP11	32.63715	-94.03827
Shreveport	Caddo	SVP12	32.59737	-94.01395
Shreveport	Caddo	SVP13	32.58870	-93.99251
Shreveport	Caddo	SVP14	32.58001	-93.98346
Shreveport	Caddo	SVP15	32.53014	-93.97575
Shreveport	Caddo	SVP16	32.66757	-93.94829
Shreveport	Caddo	SVP17	32.53032	-93.98840
Shreveport	Caddo	SVP18	32.48569	-93.89549
Shreveport	Caddo	SVP2	32.43334	-93.82631
Shreveport	Caddo	SVP3	32.43349	-93.81668
Shreveport	Caddo	SVP4	32.44212	-93.81031
Shreveport	Caddo	SVP5	32.45597	-93.81144
Shreveport	Caddo	SVP6	32.50279	-93.90768
Shreveport	Caddo	SVP7	32.49129	-93.90804
Shreveport	Caddo	SVP8	32.63686	-93.91435
Shreveport	Caddo	SVP9	32.65067	-93.99283
Spring Ridge	Caddo	SR1	32.36353	-93.96643
Spring Ridge	Caddo	SR10	32.30908	-94.01696
Spring Ridge	Caddo	SR12	32.31230	-94.02661
Spring Ridge	Caddo	SR13	32.30161	-94.04290
Spring Ridge	Caddo	SR14	32.28389	-94.04275
Spring Ridge	Caddo	SR15	32.25052	-94.02714
Spring Ridge	Caddo	SR16	32.27358	-94.00143
Spring Ridge	Caddo	SR17	32.38424	-93.90001
Spring Ridge	Caddo	SR2	32.34150	-93.99934
Spring Ridge	Caddo	SR4	32.31160	-93.95773

Spring Ridge	Caddo	SR5	32.31668	-93.95848
Spring Ridge	Caddo	SR6	32.32335	-93.96769
Spring Ridge	Caddo	SR7	32.30747	-93.97025
Spring Ridge	Caddo	SR9	32.30465	-93.99892
Temple-Simpson	Vernon	TS1	31.31069	-92.93488
Temple-Simpson	Vernon	TS10	31.24952	-93.01569
Temple-Simpson	Vernon	TS11	31.25048	-93.01153
Temple-Simpson	Vernon	TS12	31.23889	-92.98478
Temple-Simpson	Vernon	TS13	31.22251	-92.85015
Temple-Simpson	Vernon	TS14	31.30664	-92.95152
Temple-Simpson	Vernon	TS15	31.32287	-92.97565
Temple-Simpson	Vernon	TS16	31.34479	-93.02332
Temple-Simpson	Vernon	TS17	31.35264	-92.99097
Temple-Simpson	Vernon	TS18	31.33971	-92.99625
Temple-Simpson	Vernon	TS19	31.31833	-92.96626
Temple-Simpson	Vernon	TS2	31.31133	-92.96119
Temple-Simpson	Vernon	TS3	31.33213	-93.02972
Temple-Simpson	Vernon	TS4	31.27787	-93.01588
Temple-Simpson	Vernon	TS5	31.26763	-93.02186
Temple-Simpson	Vernon	TS6	31.22712	-93.09367
Temple-Simpson	Vernon	TS7	31.19737	-93.09418
Temple-Simpson	Vernon	TS8	31.18494	-93.10209
Temple-Simpson	Vernon	TS9	31.20427	-93.11838
Wham	Ouachita/Morehouse	WHAM1	32.60583	-92.00131
Wham	Ouachita/Morehouse	WHAM10	32.67662	-91.90410
Wham	Ouachita/Morehouse	WHAM11	32.66936	-91.92354
Wham	Ouachita/Morehouse	WHAM12	32.64948	-91.93169
Wham	Ouachita/Morehouse	WHAM13	32.63169	-91.93152
Wham	Ouachita/Morehouse	WHAM14	32.61380	-91.95132
Wham	Ouachita/Morehouse	WHAM15	32.61837	-91.93802
Wham	Ouachita/Morehouse	WHAM16	32.62633	-91.92218
Wham	Ouachita/Morehouse	WHAM2	32.61568	-92.00304
Wham	Ouachita/Morehouse	WHAM3	32.64100	-92.00305
Wham	Ouachita/Morehouse	WHAM4	32.65004	-92.00299
Wham	Ouachita/Morehouse	WHAM5	32.65528	-91.99467
Wham	Ouachita/Morehouse	WHAM6	32.65500	-91.95123
Wham	Ouachita/Morehouse	WHAM7	32.68163	-91.92877
Wham	Ouachita/Morehouse	WHAM8	32.68673	-91.91614
Wham	Ouachita/Morehouse	WHAM9	32.68741	-91.90459

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**TABLE S2.** Frog call survey routes and dates surveyed for 2019, 2020, and 2021 in Louisiana, USA.

Route Name	Parish(es)	Survey 1	Survey 2	Survey 3
<u>2019</u>				
Como	Franklin	8 March	14 April	
DeRidder	Beauregard/Vernon	15 March	5 April	
Fairview	Allen/Beauregard	15 March	5 April	
Gilliam-Ida	Caddo	6 February	1 March	26 April
Green Gables	Rapides/Grant	10 March	5 April	
Kinder	Allen	16 March	6 April	
Minden	Webster	18 January	27 February	18 April
Montgomery-Odra	Winn/Grant/Natchitoches	2 March	14 March	
Rayville	Richland	6 February	15 February	4 May
Shongaloo	Webster	9 March	25 March	13 May
Spring Ridge	Caddo	2 February	27 February	18 April
Temple-Simpson	Vernon	10 March	25 March	
Wham	Ouachita/Morehouse	3 February	28 February	5 May
<u>2020</u>				
Como	Franklin	23 February		
Coushatta	Red River/De Soto	5 March	23 March	
DeRidder	Beauregard/Vernon	8 February		
Fairview	Allen/Beauregard	8 February		
Gilliam-Ida	Caddo	4 February	13 March	
Green Gables	Rapides/Grant	4 February		
Kinder	Allen	7 February		
Mansfield	De Soto	5 March		
Minden	Webster	24 March		
Montgomery-Odra	Winn/Grant/Natchitoches	15 January		
Plain Dealing	Bossier	17 January	22 March	
Rayville	Richland	24 February	13 March	
Rodessa	Caddo	15 January		
Shongaloo	Caddo	5 March	20 March	
Shreveport	Webster	14 January	9 March	20 March
Spring Ridge	Caddo	14 January	13 March	23 March
Temple-Simpson	Vernon	14 January	9 March	
Wham	Ouachita/Morehouse	17 March	29 March	
		10 March		
<u>2021</u>				

Coushatta	Red River/De Soto	15 March	8 April	30 April
Mansfield	De Soto	5 March	28 March	24 April
Shreveport	Caddo	8 April	17 April	24 April

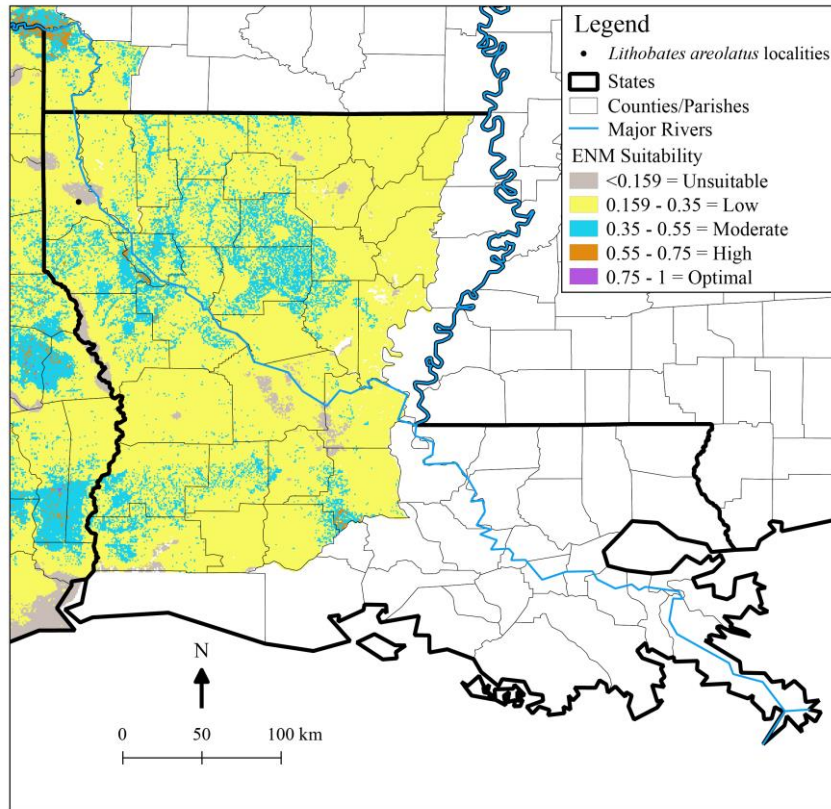
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**Table S3.** The 12 audio recorders deployed on the Red River National Wildlife Refuge (NWR) units, State Wildlife Management Areas (WMA), and private land in Louisiana, USA, from 2020 to 2021. In 2020, one recorder originally located on the Red River NWR (Yates Unit) was relocated to private property in Vernon Parish in late March 2020.

Recorder Location	Parish	Number Deployed	
		2020	2021
Red River NWR (Yates Unit)	Red River	4 (3)	2
Red River NWR (Lower Cane Unit)	Natchitoches	3	2
Red River NWR (Brake Bottom Unit)	Natchitoches	1	0
Bayou Pierre WMA	Red River	1	2
Bodcau WMA	Webster	1	1
Loggy Bayou WMA	Bossier	1	0
Soda Lake WMA	Caddo	1	0
Private Land	Vernon	1	0

**TABLE S4.** Frog species detected during nighttime call surveys in 2019, 2020, and 2021 in Louisiana, USA.

Frog Species	2019	2020	2021
<i>Lithobates areolatus</i>			
<i>Lithobates sphenoccephalus</i>			
<i>Lithobates clamitans</i>			
<i>Lithobates palustris</i>			
<i>Lithobates catesbeianus</i>			
<i>Hyla chrysoscelis</i>			
<i>Hyla cinerea</i>			
<i>Hyla squirella</i>			
<i>Pseudacris crucifer</i>			
<i>Pseudacris fouquettei</i>			
<i>Acris blanchardi</i>			
<i>Anaxyrus fowleri</i>			
<i>Incilius nebulifer</i>			
<i>Gastrophryne carolinensis</i>			
<i>Scaphiopus hurterii</i>			



**FIGURE S1.** Potential distribution of the Crawfish Frog (*Lithobates areolatus*) across Louisiana, USA, estimated by the final Ecological Niche Model (ENM) of our study. Species occurrences used in modeling are shown along with suitability value classes.