

Guide for Acoustic Identification of Florida bats

Family:

Vespertilionidae

Database species code

Myoluc or Mylu

See glossary for explanation of codes

Scientific name

Myotis lucifugus (Le Conte, 1831)

Taxonomy follows Simmons and Cirranello (2021)

Call shape

To view call graphics click on the camera icon on the right. You can then move through all images by using the left or right arrow keys. A left mouse click returns to the fact sheet.



Typical North American *Myotis* pulses with FM reversed J broadband pulses of short duration.

Vocal signature parameters

Parameters	N	Min	Max	Mean	St.Dev	10%	25%	75%	90%
Dur	2270	2.01	9.98	5.66	1.44	3.62	4.68	6.67	7.37
TBC	2173	53.0	3990.3	208.3	274.2	89.4	97.4	206.6	384.9
Fmin	2270	28.37	45.20	38.25	2.31	35.16	37.04	39.80	40.82
Fmax	2270	42.44	79.60	58.73	8.29	47.90	52.12	65.04	70.18
BW	2270	2.04	39.99	20.48	8.93	8.39	13.78	26.92	33.29
Fmean	2270	41.00	52.35	44.77	2.09	42.08	43.14	46.17	47.51
Fk	2270	40.00	52.63	44.02	2.38	41.03	42.22	45.58	47.06
FcH1	2270	18.27	22.99	20.27	0.92	19.19	19.61	20.78	21.51
Fc	2270	36.53	45.98	40.54	1.84	38.37	39.22	41.56	43.01
FcH3	2270	54.80	68.97	60.82	2.75	57.56	58.83	62.34	64.52
Sc	2270	-150.1	79.85	54.18	18.72	36.24	44.54	67.60	74.65
Pmc	2270	0.50	97.10	45.18	21.59	16.10	28.80	60.30	75.91

Reported by Szewczak (2018)

Myoluc	Fc	Fmax	Fmin	FmaxE	dur	uppr slp	lwr slp	slp @ Fc	total slp
Mean	39.7	69.4	36.5	43.4	5.8	10.5	3.5	4.1	5.0
Max	41.0	78.0	38.0	47.0	6.7	14.0	4.6	6.2	6.7
Min	38.0	61.0	35.0	40.0	4.9	6.7	2.3	2.0	3.4

Source of acoustic data

Chris Corben

Known counties of distribution

- Baker
- Bay
- Calhoun
- Columbia
- Duval
- Escambia
- Gadsden
- Hamilton
- Holmes
- Jackson
- Jefferson
- Leon
- Liberty
- Madison
- Nassau
- Okaloosa
- Santa Rosa
- St. Johns
- Suwannee
- Taylor
- Wakulla
- Walton
- Washington

Conservation status

Least concern; Ver.3.1 ; Population trend - stable; evaluated 2008. (I.U.C.N. 2017.)

Citations

Marks, C. S., and G. E. Marks. 2006. Bats of Florida. Pp. 176. University of Florida Press, Gainesville.

Simmons, N. B., and A. L. Cirranello. 2020. Bat Species of the World: A taxonomic and geographic database. <http://batnames.org>

Szewczak, J. M. 2018. Echolocation Call Characteristics of Eastern U.S. Bats. Echolocation call characteristics of Eastern U.S. Bats. Unpublished report.

The IUCN 2017. Red List of Threatened Species. Version 2017-1. www.iucnredlist.org; Downloaded on August 6, 2017.

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