



2022 Bat Monitoring Results for WMÍYETEN Nature Sanctuary Lake site

Researcher

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Table A6-1. Summary of bat species identified in each of the BC NABat grid cells in 2022. Grid cells are organized alphabetically within region which are also alphabetical. Definitions of species labels are provided in Table 3 and couplet/group species labels in the Glossary. Each value is mean nightly activity. Mean values are presented alongside the proportion a grid cell's total bat activity attributed to a species (or label), ± SE and excluding the noID recordings. Rows colored yellow indicate species ID labels that should not be used for activity estimates, while red indicates species that require mist netting for presence confirmation (see Appendix 1, Appendix 2). A blank cell means that no bats were detected in that species category. Not all species categories were considered for each cell. Sampling effort indicated in the bottom row as number of nights monitored.



South Coastal Region



SE2 Indicates results at lake in WMÍYETEN Nature Sanctuary during summer of 2022

	South Coastal Region		stream	eam		Texada	
	NE	NW	SE2	SW	NE	sw	
ANPA							
сото	0.14 (0.2 ± 0.6%)					4.0 (6.5 ± 3.1%)	
EPFU	14.57 (22.7 ± 5.2%)		22.29 (2.7 ± 0.6%)	9.14 (4.1 ± 1.3%)	9.67 (8.0 ± 2.5%)	0.4 (0.7 ± 1.0%)	
EUMA							
LABO							
LACI	42.86 (66.7 ± 5.9%)	STORESTIC: MARINE	27.86 (3.4 ± 0.6%)	0.29 (0.1 ± 0.2%)	2.67 (2.2 ± 1.3%)		
LANO	0.71 (1.1 ± 1.3%)	23.67 (94.7 ± 4.5%)		106.14 (47.5 ± 3.3%)			
MYCA MYCI	3.43 (5.3 ± 2.8%)	1.0 (4.0 ± 3.9%)	36.0 (4.4 ± 0.7%)	23.57 (10.5 ± 2.1%)	10.67 (8.8 ± 2.6%)	21.0 (34.2 ± 6.1%	
MYEV	0.14 (0.2 ± 0.6%)		0.14 (0.0 ± 0.0%)	7.0 (3.1 ± 1.2%)	0.33 (0.3 ±0.5%)	7.8 (12.7 ± 4.2%)	
MYLU	0.86 (1.3 ± 1.4%)	0.33 (1.3 ± 2.3%)	185.71 (22.5 ± 1.5%)	0.71 (0.3 ± 0.4%)	7.33 (6.1 ± 2.2%)	1.4 (2.3 ± 1.9%)	
MYSE MYTH							
MYVO	0.43 (0.7 ± 1.0%)		8.0 (1.0 ± 0.3%)	0.43 (0.2 ± 0.3%)	0.33 (0.3 ±0.5%)	6.4 (10.4 ± 3.9%)	
MYYU	0.71 (1.1 ± 1.3%)		266.86 (32.3±1.6%)	75.71 (33.9 ± 3.2%)	4.5 (3.7 ± 1.7%)	1.6 (2.6 ± 2.0%)	
TABR					0.17 (0.1 ± 0.3%)		
ANPAEPFU							
COTOEPFU							
COTOMYTH							
EPFULACI	20 00				14.5 (12.0 ± 3.0%)	0.2 (0.3 ± 0.7%)	
EPFULANO	0.43 (0.7 ± 1.0%)				16.5 (13.7 ± 3.1%)	0.6 (1.0 ± 1.3%)	
EPFUMYEV	11,923				0.17 (0.1 ± 0.3%)		
EPFUMYTH							
LABOMYCA						0.8 (1.3 ± 1.4%)	
LABOMYLU			82.0 (9.9 ± 1.0%)	0.43 (0.2 ± 0.3%)	0.33 (0.3 ±0.5%)	0.2 (0.3 ± 0.7%)	
LABOMYYU							
LABOPAHE							
LACILANO							
LACITABR							
LANOTABR							
MYCAMYCI							
MYCAMYYU				0.14 (0.1 ± 0.2%)	10.83 (9.0 ± 2.6%)	8.8 (14.3 ± 4.5%)	
MYCAPAHE							
MYCIMYLU							
MYCIMYVO							
MYEVMYSE							
MYEVMYTH							
MYEVMYVO							
MYLUMYEV							
MYLUMYVO							
MYSEMYVO							
MYYUPAHE	-		-	-			
Nights	7	3	7	7	6	5	





(PAHE and TABR) have recently been detected acoustically at specific locations in the province. Occasionally displaced migrants of *Nyctinomops macrotis* (Big Free-tailed Bat) show up in BC and therefore this species is considered in analyses, but none have been detected through NABat monitoring to date.

* 2022 WNS Lake Site Species highlighted with yellow

Common Name	4-letter code	Scientific Name	
Big Brown Bat	EPFU	Eptesicus fuscus	
Mexican Free-tailed Bat	TABR	Tadarida brasiliensis	
California Myotis	MYCA	Myotis californicus	
Canyon Bat	PAHE	Parastrellus hesperus	
Eastern Red Bat	LABO	Lasiurus borealis	
Fringed Myotis	MYTH	Myotis thysanodes	
Hoary Bat	LACI	Lasiurus cinereus	
Little Brown Myotis	MYLU	Myotis lucifugus	
Long-eared Myotis	MYEV	Myotis evotis	
Long-legged Myotis	ΜΥνο	Myotis volans	
Northern Myotis	MYSE	Myotis septentrionalis	
Silver-haired Bat	LANO	Lasionycteris noctivagans	
Spotted Bat	EUMA	Euderma maculatum	
Pallid Bat	ANPA	Antrozous pallidus	
Townsend's Big-eared Bat	сото	Corynorhinus townsendii	
Western Small-footed Myotis	MYCI	Myotis ciliolabrum	
Yuma Myotis	MYYU	Myotis yumanensis	
Eastern red bat, little brown bat	LABOMYLU	Lasiurus borealis, Myotis lucifugus	





Glossary

Information describing common group labels of species. See Table 4 for species codes.

Species	Description		
MYCA or MYYU	Frequency groupings. Possible species ID includes the set of species shown, where appropriate. Differentiating to species-level not possible. "K" stands for kHz. The number refers to the lowest frequency commonly produced.		
MYCA, MYCI, MYVO, MYLU, MYSE, or MYYU			
EPFU (if high vegetation area) or MYEV			
EPFU, LANO, LACI, or TABR			
LACI or TABR			
ANPA, COTO, EPFU, LACI, LANO, MYTH, or TABR	Poor quality recording. Possible species ID includes the set of species shown, where appropriate. Differentiating to species-level not possible usually due to too few pulses. LowF refers to species that put most of their echolocation energy into frequencies below 30kHz. HighF bats produce calls that are above 30kHz.		
MYCA, MYCI, MYLU, MYSE, MYVO, MYYU, LABO			
Possible EPFU or LANO			
Possible EPFU or TABR	 Couplets. Possible recording of either species. These pairs of species are acoustically very 		
Possible TABR or LANO			
Possible TABR or LANO Possible COTO or MYTH	These pairs of species are acoustically very similar, and some recordings contain no		
	These pairs of species are acoustically very		
Possible COTO or MYTH	These pairs of species are acoustically very similar, and some recordings contain no		
Possible COTO or MYTH Possible ANPA or LACI	These pairs of species are acoustically very similar, and some recordings contain no characteristics to differentiate between the		
	MYCA or MYYU MYCA, MYCI, MYVO, MYLU, MYSE, or MYYU EPFU (if high vegetation area) or MYEV EPFU, LANO, LACI, or TABR LACI or TABR ANPA, COTO, EPFU, LACI, LANO, MYTH, or TABR MYCA, MYCI, MYLU, MYSE, MYVO, MYYU, LABO		