

## Bat Species Presence on Craters of the Moon National Monument and Preserve

Bat Species	Present in Park	Comments/ Known Location Information
<b>Big Brown Bat</b> <i>(Eptesicus fuscus)</i>	Yes	Documented acoustically (Hernandez 2019-2021), documented by Keller in the 1990's. Within the species known range.
<b>California Myotis</b> <i>(Myotis californicus)</i>	Yes	Documented acoustically (Hernandez 2019-2021) on BLM portion of Monument, within the species known range, one NPS record from (Hoffman 1987)
<b>Canyon Bat</b> <i>(Parastrellus hesperus)</i>	Probable	Documented near Burley (Abel 2015), likely on Wapi lava flow (Hernandez 2021, Muntz 2011)
<b>Fringed Myotis</b> <i>(Myotis thysanodes)</i>	Yes	Documented acoustically (Hernandez 2019-2021, Netted in 1997 (Keller), confirmed in 2003 (Madison et. al.).
<b>Hoary Bat</b> <i>(Lasiurus cinereus)</i>	Yes	Documented acoustically (Hernandez 2019-2021), Within the species known range, Widespread in Idaho (Madison et al 2003)
<b>Little Brown Myotis</b> <i>(Myotis lucifugus)</i>	Yes	Documented acoustically (Hernandez 2019-2021), Documented in the monument in the 1990's (Keller), confirmed 2003 (Madison et. al.)
<b>Long-Eared Myotis</b> <i>(Myotis evotis)</i>	Yes	Documented acoustically (Hernandez 2019-2021), Documented in the monument in the 1990's (Keller), confirmed 2003 (Madison et. al)
<b>Long-Legged Myotis</b> <i>(Myotis Volans)</i>	Yes	Documented acoustically (Hernandez 2019-2021), Documented in the monument in the 1990's (Keller), confirmed 2003 (Madison et. al.).
<b>Mexican Free-tailed Bat</b> <i>(Tadarida brasiliensis)</i>	Possible	Netted in Wood River Valley, ID (Dixon 2013); observed in Pocatello, ID in 2012 (Abel 2015), Captured individual on the INL (Whiting 2016)
<b>Pallid Bat</b> <i>(Antrozous pallidus)</i>	Yes	Documented acoustically (Hernandez 2019-2021), Documented in 2002 through an acoustic bat echolocation analysis system by a visitor (Madison et al. 2003)
<b>Silver-Haired Bat</b> <i>(Lasionycteris noctivagans)</i>	Yes	Documented acoustically (Hernandez 2019-2021).

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<b>Townsend's Big-Eared Bat</b> ( <i>Corynorhinus Townsendii</i> )	Yes	Documented acoustically (Hernandez 2019-2021), Keller documented the species and maternity colonies in the 90's. Documented by Madison et. al 2003. Most commonly found species (75%) hibernating in CRMO caves (Slocum et. al. 2017). The majority (i.e., 64%) of documented and potential caves (in southeast Idaho) used as maternity roosts were located in Craters of the Moon National Monument and Preserve (Call et. al. 2018)
<b>Western Small-Footed Myotis</b> ( <i>Myotis ciliolabrum</i> )	Yes	Documented acoustically (Hernandez 2019-2021), Keller documented the species in the 1990s, one female was captured at the hot springs in 2003 (Madison et. al). This species occurs throughout the monument and uses lava tubes as hibernacula and day roosts. Likely the second most common species found hibernating in CRMO Caves (Stefanic).
<b>Yuma Myotis</b> ( <i>Myotis yumanensis</i> )	Yes	Documented acoustically (Hernandez 2019-2021), Keller documented the species in the 1990s, a few recordings of the species were made in 2004 at Lava Lake (Madison et. al. 2004).
<b>Spotted Bat</b> ( <i>Euderma maculatum</i> )	Possible	No records but park is within known range of species
<b>Western Red Bat</b> ( <i>Lasiurus blossevillii</i> )	Possible	No records but park is within known range of species, acoustic detections at Camas NWR in 2015 (Whiting and Doering 2016) suggest it is likely present. Other acoustic detection in the state but still no bat "in the hand" (Dixon 2019).

## References

Abel, Becky Idaho Fish and Game Non-game Regional Wildlife Biologist, Pocatello, Idaho. Personal communication with Todd Stefanic, 2015.

Call, Ryan S. et. al. 2018. Maternity Roosts of Townsend's Big-eared Bats in Lava Tube Caves of Southern Idaho. Northwest Science. Vol 92, No. 2

Dixon, Rita State Wildlife Action Plan Coordinator, Idaho Department of Fish and Game, Boise, Idaho. Personal communication with Todd Stefanic, 2019.

Hernandez, Mauro 2019-2021. Research Analyst-Oregon State University. Ongoing study of maternity colonies on CRMO and surrounding BLM lands. Acoustic data. Unpublished. (status report expected Dec. 2021).

Hoffman, Roger 1987, from CRMO Wildlife Observation Database (unpublished), this record an oddity as California Myotis is not listed in Hoffman's 1988 Baseline Report and no such location as Bat Tube Cave exists today. Available at: [irma.nps.gov Datastore ref. # 2192964](https://irma.nps.gov/DataStore/record.do?ref=2192964)

Keller, Barry. 1995. A Survey of Day Roosting by *Plecotus Townsendii* in Lava-Tube Caves at Craters of the Moon National Monument, Butte County, Idaho. Unpublished Report. Available at: [irma.nps.gov Datastore ref. # 547237](https://irma.nps.gov/DataStore/record.do?ref=547237)

Keller, Barry. 1996. A Netting Survey of Water and Cave Areas Used by Bats at Craters of the Moon National Monument, Butte County, Idaho. Unpublished Report. Available at: [irma.nps.gov Datastore ref. # 547239](https://irma.nps.gov/DataStore/record.do?ref=547239)

Keller, Barry. 1997. Analysis of the Thermal Characteristics of Maternity Caves and Bat Species Present at Craters of the Moon National Monument, Butte County, Idaho. Unpublished Report. Available at: [irma.nps.gov Datastore ref. # 5547236](https://irma.nps.gov/DataStore/record.do?ref=5547236)

Keller, Barry 1999. Thermal Characteristics of Lava Caves in the North Caves Area and Bat Species Present at Pond Cave, Craters of the Moon National Monument, Butte County, Idaho. Unpublished Report. Available at: [irma.nps.gov Datastore ref. # 178051](https://irma.nps.gov/DataStore/record.do?ref=178051)

Munts, Mike CRMO Wildlife Biological Science Technician 1998-2011, from CRMO White-nose Syndrome Response Plan 2011.

Madison, Erica, T. Rodhouse and L. Garret. Mammal Inventory of Craters of the Moon National Monument and Preserve 2003. UCBN Natural Resources Technical Report NPS/UCBN/NRTR-2009/272. Available at: [irma.nps.gov Datastore ref. # 560193](https://irma.nps.gov/DataStore/record.do?ref=560193)

Madison, Erica, T. Rodhouse and L. Garret. 2004. 2003 Mammal Inventory: Craters of the Moon National Monument and Preserve. Report for Subagreement No. 20 to Cooperative Agreement No. CA9000-95-018 University of Idaho and National Park Service Upper Columbia Basin Network. Available at: [irma.nps.gov Datastore ref. # 573798](https://irma.nps.gov/DataStore/record.do?ref=573798)

Slocum, K. et. al. 2017. Bat hibernacula surveys in Craters of the Moon National Monument and Preserve: 2017 status report. NPS/UCBN/NRR-2017/1477. Available at: [irma.nps.gov Datastore ref. # 2242404](https://irma.nps.gov/Datastore/record.do?ref=2242404)

Whiting, Jericho -Professor BYU-Idaho and Bill Doering –Wildlife Biologist at the Idaho National Laboratory, 2016. Personal communication with Todd Stefanic, 2016.

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