USFWS

Data entry is required in cells of this color
Data entry in cells of this color should be completed if the information is available

Age code	Age
"A" or "a"	Adult
"J" or "j"	Juvenile
"U" or "u"	Unknown

Gender code	Gender
"M" or "m"	Male
"F" or "f"	Female
"U" or "u"	Unknown

Male reproductive status options	
Code	Status
"N" or "n"	Non-reproductive
"TD" or "td"	Testes-descended
"U" or "u"	Unknown

Female reproductive status options	
Code	Status
"N" or "n"	Non-reproductive
"L" or "l"	Lactating
"P" or "p"	Pregnant
"PL" or "pl"	Post-lactating
"U" or "u"	Unknown

S Geographic Area:

Species Codes	Species
ANPA	*Antrozous pallidus*
CHME	*Choeronycteris mexicana*
CORA	*Corynorhinus rafinesquii*
COTO	*Corynorhinus townsendii*
EPFU	*Eptensicus fuscus*
EUMA	*Euderma maculatum*
EUPE	*Eumops perotis*
EUUN	*Eumops underwoodi*
IDPH	*Idionycteris phyllotis*
LANO	*Lasionycteris noctivagans*
LABL	*Lasiurus blossevillii*
LACI	*Lasiurus cinereus*
LAEG	*Lasiurus ega*
LAIN	*Lasiurus intermedius*
LASE	*Lasiurus seminolus*
LAXA	*Lasiurus xanthinus*
LENI	*Leptonycteris nivalis*
LEYE	*Leptonycteris yerbabuenae*
MACA	*Macrotus californicus*
MOMO	*Molossus molossus*
MOME	*Mormoops megalophylla*
MAUR	*Myotis auriculus*
MAUS	*Myotis austroriparius*
MYCA	*Myotis californicus*
MYCI	*Myotis ciliolabrum*
MYEV	*Myotis evotis*
MYLE	*Myotis leibii*
MYLU	*Myotis lucifugus*
MYME	*Myotis melanorhinus*
MYOC	*Myotis occultus*
MYTH	*Myotis thysanodes*
MYVE	*Myotis velifer*
MYVO	*Myotis volans*
MYYU	*Myotis yumanensis*
NYHU	*Nycticeius humeralis*

NYFE	*Nyctinomops femorosaccus*
NYMA	*Nyctinomops macrotis*
PAHE	*Parastrellus hesperus*
PESU	*Perimyotis subflavus*
TABR	*Tadarida brasiliensis*
UNKN	*Unknown*
UNMY	*Unknown Myotis*
UNLA	*Unknown Lasiurine*
NOBATS	*No bats*

Southwest 2020

Common name
Pallid bat
Mexican long-tongued bat
Rafinesque's big-eared bat
Townsend's big-eared bat
Big brown bat
Spotted bat
Greater bonneted bat
Underwood's bonneted bat
Allen's big-eared bat
Silver-haired bat
Western red bat
Hoary bat
Southern yellow bat
Northern yellow bat
Seminole bat
Western yellow bat
Mexican long-nosed bat
Lesser long-nosed bat
California leaf-nosed bat
Pallas's mastiff bat
Peters's ghost-faced bat
Southwestern myotis
Southeastern myotis
California myotis
Western small-footed myotis
Long-eared bat
Eastern small-footed bat
Little brown bat
Dark-nosed small-footed myotis
Arizona myotis
Fringed myotis
Cave myotis
Long-legged myotis
Yuma myotis
Evening bat

Pocketed free-tailed bat
Big free-tailed bat
Canyon bat
Tri-colored bat
Mexican free-tailed bat
Unknown
Unknown Myotis
Unknown Lasiurine
No bats captured

USFWS Geographic Area: Southwest 2020

LAT (decimal degree)	LONG (decimal degree)	Positional accuracy	Month	Day	Year	Start Time (military)

End Time (military)	Project Name	Site Name	State	County

Type of Survey	Number of Net sets/Trap Nights for this Date at this Site (level of nightly survey effort)	Total net area (square meters)

Habitat Type or Feature being Surveyed	Permittee Name	Federal Permit Number

Email address for Individual who Monitored this site.	Comments

Capture time (military time)	Abbreviated data entry				Drop-down dat	
	Species code	Age	Sex	Reproductive status	Scientific name	Age

Demographic Information

ta entry		Right forearm measurement (mm)	Ear length (mm)	Tragus length (mm)	Weight (g)	Height in net	Units (m or ft)
Sex	Reproductive status						

Sample taken	Reichard Wing score	New band or recapture (leave blank if not banded)	Bands/Markers (type/color)	Band ID (prefix and number)	Band Arm

Bands/Markers

s		Comments
Pit tag number	**Radio frequency**	

Site ID
(use drop-down menu)

Site ID check
DO NOT ENTER DATA. This cell should auto-populate with the project name.If it doesn't your value for Site ID is invalid.

Roost ID	LAT (decimal degree)	LONG (decimal degree)	Location accuracy

Project name (use drop-down menu)	Ownership	State	County	Roost Type

Day Roost vs. Night Roost	Tree Species (full scientific name)	DBH	Units	Decay State (1-9)	Tree Height

| Day Roost vs. Night Roost | Tree Species (full scientific name) | DBH | Units | Decay State (1-9) | Tree Height |

Units	Roost Height (if known)	Units	Exfoliating Bark (% remaining)	Canopy Closure (%)

MicroHabitat	Comments

Bat species	Bat ID (if applicable)

Used by this bat the night of this count? (if applicable)	Roost ID (use drop-down menu)	Total Emergence Count

Date	Comment	Bat ID check should auto-populate with "Good" if the Bat ID value is valid	Roost ID check should auto-populate with "Good" if the Roost ID value is valid
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good
		Good	Good

LAT (decimal degree)	LONG (decimal degree)	Positional Accuracy	Month	Day	Year	Start Time (military)

End Time (military)	Project Name	Site	State	County	Survey Type

Detector Brand	Detector Model	Microphone Brand & Model

Directional, Omnidirectional, or Hemispherical Microphone	Weatherproofing type	Microphone Height (m)	Horizontal Orientation of Directional Microphone (1-360 degrees)

Vertical Orientation of Directional Microphone (approx. degrees)	Sensitivity Setting	Audio Division (if applicable)

Data Division (if applicable)	Were calls collected in Full Spectrum or Zero Crossing?	Habitat Type or Feature being Surveyed	Name of Person who Selected Acoustic Site

Name of Person who Deployed Detector	Email Address of Primary Surveyor	Comments

Species	Number of calls ID'ed for that species	Bat ID Software Program Used	Software Version Used

If calls were converted from Full Spectrum to Zero Cross, what program was used?	Maximum Likelihood Estimation (MLE) *P*-value	Number of Calls Confirmed through Qualitative ID (if conducted)

Name of Individual who Conducted Qualitative ID (if conducted)	Site ID (use drop-down menu)