

New Jersey Bats in Bridges Survey Form

For reporting bat presence/absence to the U.S. Fish and Wildlife Service's NJ Field Office (Service)
and NJDEP Fish and Wildlife's Endangered and Nongame Species Program (ENSP)

Last updated May 2024

Bridges, culverts and other transportation structures (hereafter called *structures*) within the range of Indiana Bats (*Myotis sodalis*) and/or Northern Long-eared Bats (*M. septentrionalis*) in New Jersey shall be surveyed for bat occupancy prior to conducting construction, maintenance, or operational activities which may disturb or directly harm bats. Survey protocols and additional background information on this topic are described in the document, "New Jersey Guidance on Surveying Transportation Structures for Bat Occupancy."





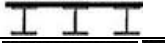

Please use this form *instead* of the form found in Appendix K of the USFWS Survey Guidelines. Submit results by emailing this fillable survey form and associated photo log to Sarah_Crestol@fws.gov (for general projects), Alicia_Protus@fws.gov (for New Jersey Department of Transportation projects) and MacKenzie.Hall@dep.nj.gov.

If evidence of bat occupancy is observed at a structure, clearance must be given by both the Service and ENSP before work can proceed. These agencies will need to determine the species of bat and colony size present before issuing guidance, so please take and **provide clear, diagnostic reference photos** with your data submission.

Structure ID#:		Inspection Date:	Time (start-end):
Route Carried:		Route/Feature(s) Spanned:	
County:	Town:	IPaC Project Code/DOT Reference:	
Lat, Long (decimal degrees):			
Name of Lead Investigator:		Affiliation:	Email:
Contact Phone:		Additional Surveyors:	

Road Type Carried by Structure: ☐ Interstate ☐ Turnpike/Parkway/Expressway ☐ U.S. Highway ☐ State Road
☐ County Road ☐ Municipal Road ☐ Private Road ☐ Railroad ☐ Other: _____

Structure Type:

Parallel Box Beam 	Flat Slab / Box 	Underdeck: <input type="checkbox"/> Corrugated Metal <input type="checkbox"/> Concrete <input type="checkbox"/> Timber <input type="checkbox"/> Open Grid <input type="checkbox"/> Other: _____	Beams: <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Timber <input type="checkbox"/> None <input type="checkbox"/> Other: _____
Pre-stressed Girder 	Truss side view: 		
Steel I-beam 	Culvert* – Pipe/Round	End/Back Wall: <input type="checkbox"/> Concrete <input type="checkbox"/> Timber <input type="checkbox"/> Stone/Masonry <input type="checkbox"/> Other: _____	Creosote Evidence? <input type="checkbox"/> Yes <input type="checkbox"/> No
Cast in Place 	Culvert* – Box		
Other: _____			

Structure/deck height (approx. feet)	
Structure length (approx. feet) (measure from aerial/GIS, not in field)	

*Culvert Material:	
<input type="checkbox"/> Metal	<input type="checkbox"/> Concrete
<input type="checkbox"/> Plastic	<input type="checkbox"/> Stone/Masonry
<input type="checkbox"/> Other: _____	

Conditions Under Structure (check all that apply)	
<input type="checkbox"/> Two lane road	<input type="checkbox"/> Rip-rap
<input type="checkbox"/> Four+ lane road/highway	<input type="checkbox"/> Flowing water
<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Standing water
<input type="checkbox"/> Railroad	<input type="checkbox"/> Seasonal water
<input type="checkbox"/> Trail	<input type="checkbox"/> Open/low vegetation
<input type="checkbox"/> Bare ground	<input type="checkbox"/> Obstructing vegetation
Other: _____	

Surrounding Habitats (check all that apply)	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Early successional/fallow
<input type="checkbox"/> Commercial	<input type="checkbox"/> Forest/woodland
<input type="checkbox"/> Residential – urban	<input type="checkbox"/> Riparian/wetland
<input type="checkbox"/> Residential – rural	<input type="checkbox"/> Mixed use
Other: _____	

Additional notes about the structure or proximate human activity/disturbance:

Remember to take photos of structural features and the survey effort, including bat evidence or lack thereof!

Structural Features Present <i>(check all that apply)</i>		Evidence of Bats?						
		YES			NO	Unsure	Not Inspected	Comment
		Bats	Guano	Other*				
	Expansion joint/crevice, top sealed							
	Expansion joint/crevice, unsealed							
	Parapet gap (concrete barrier railing)							
	Pier cap (guano can pile under roost)							
	Abutment ledge (guano can pile)							
	Space btwn end wall and underdeck							
	Cracks / concrete spalling							
	Open beams or underdeck							
	Weep holes, scupper drains or inlets							
	Utility pipes/chases							
	Bird nest							
	Guiderail							
	Other:							

**Other bat indicators can include staining from body oils or urine, hearing bats vocalizing, or smell.*

*If accessible, **photos of bat guano** should be taken beside a ruler for scale. Guano pellets may be collected for genetic testing.*

☐ Check here if the inspection was thorough and complete.

Additional notes about the survey, bat indicators observed, and any uncertainties, including parts of the structure that were NOT inspected thoroughly (i.e. due to unsafe conditions or inaccessibility):

Evidence of Birds Nesting on Structure? ☐ No ☐ Yes, pigeons ☐ Yes, birds other than pigeons – details below
Federal and/or State protections for native birds may apply. Please provide representative **photos** of bird nests in the photo log.

Bird Species	Check all that apply					# Nests Observed	Location of Nest(s), Notes
	Old Nest	Active Nest	Adult Present	Eggs/Young Present	Unknown Nest Stage		
Eastern Phoebe							
Barn Swallow							
Cliff Swallow							
Other							
Unkn. Species							