

RIPARIAN WOODED CORRIDOR/STREAMS FOREST HABITATS NARRATIVE

Habitat description

Forests associated with river and stream banks. Often utilized as travel corridors by wildlife and affects in-stream habitat.

Problems affecting species and habitats

Species threats

The respondent listed the following as “serious threat” to wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Habitat loss (breeding range)
- Habitat loss (feeding/foraging areas)

The respondent listed the following as “somewhat of a threat” to wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- High sensitivity to pollution
- Bioaccumulation of contaminants
- Predators (native or domesticated)
- Dependence on irregular resources (cyclical annual variations) (e.g., food, water, habitat limited due to annual variations in availability)
- Degradation of movement/migration routes (overwintering habitats, nesting and staging sites)

The respondent listed the following as “slight threat” to wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Species overpopulation
- Unintentional take/ direct mortality (e.g., vehicle collisions, power line collisions, by-catch, harvesting equipment, land preparation machinery)
- Large home range requirements
- Viable reproductive population size or availability

The respondent listed no “critical threat” to wildlife in this habitat.

The respondent offered no additional threats to wildlife in riparian wooded corridors/streams forest habitats in Indiana.

The respondent listed top threats to wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Loss and degradation of breeding and foraging habitats along river corridors and uplands

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the threats to wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat threats

The respondent listed “serious threats” to riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Commercial or residential development (sprawl)

Appendix F-43: Riparian Wooded Corridors/Streams

- Habitat fragmentation
- Habitat degradation
- Stream channelization

The respondent listed the following as “somewhat of a threat” to riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Counterproductive financial incentives or regulations
- Nonpoint source pollution (sedimentation and nutrients)
- Impoundment of water/flow regulation
- Agricultural/forestry practices
- Residual contamination (persistent toxins)
- Mining/acidification

The respondent listed the following as “slight threat” to riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Successional change
- Point source pollution (continuing)

The respondent listed no “critical threat” to these habitats.

The respondent noted no additional threats to riparian wooded corridors/streams forest habitats in Indiana.

The respondent listed top threats to riparian wooded corridors/streams forest habitats in Indiana:

- Loss and degradation of breeding and foraging habitats along river corridors and uplands

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the threats to riparian wooded corridors/streams forest habitats. There were no responses.

Additional research and survey efforts

Current body of research

Species research

The respondent stated that the current body of science is adequate for wildlife in riparian wooded corridors/streams forest habitats in Indiana.

Respondents identified the following citations (title, author, date, publisher) that would give the best overview of wildlife in riparian wooded corridors/streams forest habitats in Indiana.

Title = Atlas of Breeding Birds of Indiana;
Author = Castrale, JS., E Hopkins, C Keller;
Date = 1988;
Publisher = IDNR

Title = BNA Account - Red-shouldered Hawk;
Author = ST Crocoll;
Date = 1994;
Publisher = American Ornithologists' Union

Appendix F-43: Riparian Wooded Corridors/Streams

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the current body of science for wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat research

The respondent stated that the current body of science is adequate for riparian wooded corridors/streams forest habitats in Indiana.

Respondents did not identify citations (title, author, date, publisher) that would give the best overview of riparian wooded corridors/streams forest habitats in Indiana.

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the current body of science for riparian wooded corridors/streams forest habitats. There were no responses.

Research needs

Species research

The respondent stated that the following research is “needed” for wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Life cycle
- Distribution and abundance
- Limiting factors (food, shelter, water, breeding sites)
- Threats (predators/competition, contamination)
- Relationship/dependence on specific habitats
- Population health (genetic and physical)

The respondent noted no additional research needs for wildlife in riparian wooded corridors/streams forest habitats in Indiana.

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the research needs for wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat research

The respondent stated that the following research is “needed” for riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Successional changes
- Distribution and abundance (fragmentation)
- Threats (land use change/competition, contamination/global warming)
- Relationship/dependence on specific site conditions
- Growth and development of individual components of the habitat

The respondent noted no additional research needs for riparian wooded corridors/streams forest habitats in Indiana.

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the research needs for riparian wooded corridors/streams forest habitats. There were no responses.

Conservation actions necessary

Species actions

The respondent stated that the following conservation efforts address threats to wildlife in riparian wooded corridors/streams forest habitats in Indiana “somewhat” well (not ranked):

- Habitat protection (use below for details)
- Threats reduction
- Regulation of collecting
- Protection of migration routes
- Limiting contact with pollutants/contaminants
- Public education to reduce human disturbance

The respondent did not list any efforts that addressed threats “very well.”

The respondent noted no other current conservation practices for wildlife in riparian wooded corridors/streams forest habitats in Indiana.

The respondent recommended these practices for more effective conservation of wildlife in riparian wooded corridors/streams forest habitats in Indiana:

- Incentives to conserve wooded riparian corridors and responsible forestry practices

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the effective conservation of wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat actions

The respondent stated that the following conservation efforts “somewhat” address threats to riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Habitat protection through regulation
- Habitat protection on public lands
- Habitat protection incentives (financial)
- Habitat restoration through regulation
- Habitat restoration on public lands
- Habitat restoration incentives (financial)
- Succession control (fire, mowing)
- Corridor development/protection
- Pollution reduction
- Protection of adjacent buffer zone
- Restrict public access and disturbance
- Land use planning
- Technical assistance
- Cooperative land management agreements (conservation easements)

The respondent listed no other current conservation practices for riparian wooded corridors/streams forest habitats in Indiana.

The respondent recommended the following practices for more effective conservation of riparian wooded corridors/streams forest habitats in Indiana.

Appendix F-43: Riparian Wooded Corridors/Streams

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the practices for more effective conservation of riparian wooded corridors/streams forest habitats. There were no responses.

Proposed plans for monitoring

Current monitoring

Species monitoring

The respondent were aware of the following monitoring efforts by state agencies for wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Occasional statewide (less than once a year and not regularly scheduled) monitoring
- Occasional regional or local (less than once a year and not regularly scheduled) monitoring

The respondent were aware of the following monitoring efforts by other organizations for wildlife in riparian wooded corridors/streams forest habitats in Indiana:

- Statewide once-a-year monitoring
- Periodic regional or local (less than once a year but still regularly scheduled) monitoring

The respondent ranked monitoring efforts by state agencies based on their importance for conservation of wildlife in riparian wooded corridors/streams forest habitats in Indiana:

Rank	Monitoring efforts by state agencies for conservation of wildlife in riparian wooded corridors/streams forest habitats
1	Occasional statewide (less than once a year and not regularly scheduled) monitoring
2	Occasional regional or local (less than once a year and not regularly scheduled) monitoring

The respondent ranked monitoring efforts by other organizations based on their importance for conservation of wildlife in riparian wooded corridors/streams forest habitats in Indiana:

Rank	Monitoring efforts by other organizations for conservation of wildlife in riparian wooded corridors/streams forest habitats
1 (tie)	Statewide once-a-year monitoring
1 (tie)	Periodic regional or local (less than once a year but still regularly scheduled) monitoring

The respondent listed regional or local monitoring by state agencies for wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Statewide Breeding Bird Atlas
- Periodic local studies in southern Indiana

Appendix F-43: Riparian Wooded Corridors/Streams

The respondent listed regional or local monitoring by other organizations for wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- Statewide Breeding Bird Atlas
- Periodic local studies in Hoosier National Forest

The respondent listed organizations that monitor wildlife in riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- USGS
- Universities

The respondent considered monitoring techniques for wildlife in riparian wooded corridors/streams forest habitats in Indiana:

Monitoring techniques for wildlife in riparian wooded corridors/streams forest habitats	Used	Not used but possible with existing technology and data	Not economically feasible
Radio telemetry and tracking	--	X	--
Modeling	X	--	--
Spot mapping	--	X	--
Driving a survey route	X	--	--
Mark and recapture	X	--	--
Professional survey/census	X	--	--
Volunteer survey/census	X	--	--
Trapping (by any technique)	X	--	--
Representative sites	X	--	--

The respondent noted no other monitoring techniques for wildlife in riparian wooded corridors/streams forest habitats in Indiana.

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the monitoring techniques for wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat inventory and assessment

The respondent was not aware of inventory and assessment efforts by state agencies for riparian wooded corridors/streams forest habitats in Indiana. Therefore, the respondent found no state agency efforts to be crucial for habitat conservation and could not name agencies involved in monitoring.

Appendix F-43: Riparian Wooded Corridors/Streams

The respondent was aware of the following inventory and assessment efforts by other organizations for riparian wooded corridors/streams forest habitats in Indiana:

- Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment

The respondent listed these efforts as “somewhat crucial” for habitat conservation.

The respondent listed regional or local inventory and assessment by other organizations agencies for riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- USFS
- USDA statewide (respondent unsure)

The respondent listed organizations that monitor riparian wooded corridors/streams forest habitats in Indiana (not ranked):

- USFS
- USDA (respondent unsure)

The respondent considered inventory and assessment techniques for riparian wooded corridors/streams forest habitats in Indiana:

Inventory and assessment techniques for riparian wooded corridors/streams forest habitats	Used	Not used but possible with existing technology and data	Not economically feasible
GIS mapping	X	--	--
Aerial photography and analysis	X	--	--
Systematic sampling	X	--	--
Participation in land use programs	X	--	--
Modeling	X	--	--
Voluntary landowner reporting	X	--	--

The respondent listed no additional inventory and assessment techniques for riparian wooded corridors/streams forest habitats in Indiana.

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the inventory and assessment techniques for riparian wooded corridors/streams forest habitats. There were no responses.

Recommended monitoring Species monitoring

Appendix F-43: Riparian Wooded Corridors/Streams

The respondent recommended the following monitoring techniques for effective conservation of wildlife in riparian wooded corridors/streams forest habitats in Indiana:

- Road/streamside surveys in appropriate habitat

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the monitoring techniques for effective conservation of wildlife in riparian wooded corridors/streams forest habitats. There were no responses.

Habitat inventory and assessment

The respondent recommended the following inventory and assessment techniques for effective conservation of riparian wooded corridors/streams forest habitats in Indiana:

- Aerial imagery coupled with modeling

Technical experts and conservation organizations reviewed the above results and were asked if these were a reasonable representation of the inventory and assessment techniques for effective conservation of riparian wooded corridors/streams forest habitats. There were no responses.