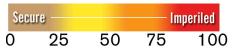
Orconectes eupunctus

Coldwater Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 50 out of 100



Population Trend: Unknown



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G Rank: G2 - Imperiled species

S Rank: S1 - Critically imperiled in Arkansas

Distribution

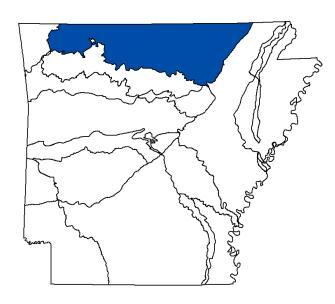
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Ecoregions where the species occurs:



Element Occurrence Records

Taxa Association Team and Reviewers



Ecobasins

Ozark Highlands - White River

Habitats	Weight
Natural Riffle: - Medium	Optimal
Natural Run: - Medium	Optimal

Problems Faced

Threat: Biological alteration Source: Exotic species Threat: Habitat disturbance Source: Resource extraction Threat: Sedimentation

Source: Forestry activities
Threat: Sedimentation
Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a rather small, stout crayfish with reddish brown thorax and abdomen (Pflieger 1996).

Endemic to the Eleven Point and Spring River drainages of Arkansas and Missouri (Williams 1954).

Orconectes macrus

Neosho Midget Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 23 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G4 – Apparently secure species

S Rank: S2 - Imperiled in Arkansas



Distribution

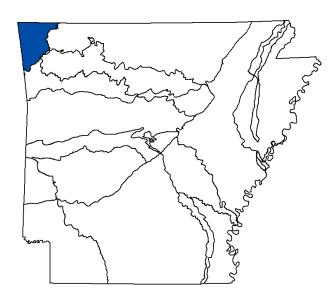
The state of the s

Ecoregions where the species occurs:



Element Occurrence Records

Taxa Association Team and Reviewers



Ecobasins

Ozark Highlands - Arkansas River

Habitats	Weight
Natural Pool: Headwater - Small	Suitable
Natural Riffle: Headwater - Small	Optimal
Natural Run: Headwater - Small	Optimal
Natural Spring Run: Headwater	Suitable

Problems Faced

Threat: Habitat destruction
Source: Urban development
Threat: Habitat disturbance
Source: Forestry activities
Threat: Habitat disturbance
Source: Resource extraction

Threat: Sedimentation
Source: Road construction
Threat: Sedimentation

Source: Urban development

Data Gaps/Research Needs

Determine species distribution in Arkansas.

Determine taxonomic and genetic relationship to O.

nana.

Conservation Actions	Importance	Category
More data is needed to determine conservation actions.	Medium	Data Gap

Monitoring Strategies

More information is needed before a monitoring strategy can be developed.

Comments

Description: a diminutive crayfish (maximum 2 inch total length), tan with a black or olive saddle and sometimes dark brown or black speckles (Pflieger 1996, Brian K. Wagner, personal communication).

Inhabits clear gravelly streams of the Arkansas River drainage in extreme northwest Arkansas and adjacent states (Pflieger 1996). The separation between O. macrus and O. nana is somewhat unclear and warrants further study.

Orconectes marchandi

Mammoth Spring Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 46 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown



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G Rank: G2 – Imperiled speciesS Rank: S2 – Imperiled in Arkansas

Distribution

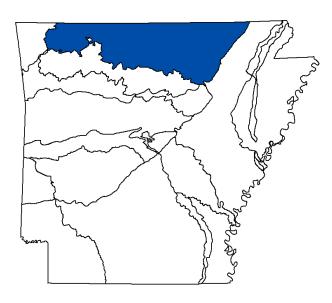
The state of the s

Ecoregions where the species occurs:



Element Occurrence Records

Taxa Association Team and Reviewers



Ecobasins

Ozark Highlands - White River

Habitats	Weight
Natural Pool: - Small - Medium	Marginal
Natural Riffle: - Small - Medium	Optimal
Natural Run: - Small - Medium	Suitable

Problems Faced

Threat: Biological alteration Source: Exotic species Threat: Chemical alteration Source: Recreation

Threat: Riparian Habitat Destruction

Source: Channel alteration
Threat: Sedimentation
Source: Recreation

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Habitat Protection
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Restoration/Improvement

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a medium-sized reddish brown crayfish (Pflieger 1996)

This crayfish has a very limited distribution in the Spring River and its tributaries in three counties of Arkansas and Missouri (Pflieger 1996). Introduced ringed crayfish may adversely affect the species (Dan Magoulick, personal communication).

Aquatic Crayfish Report

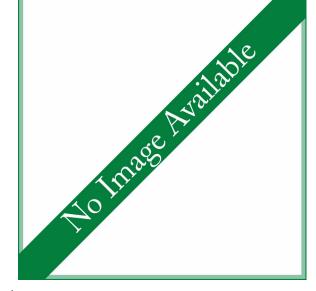
Orconectes meeki brevis crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 34 out of 100

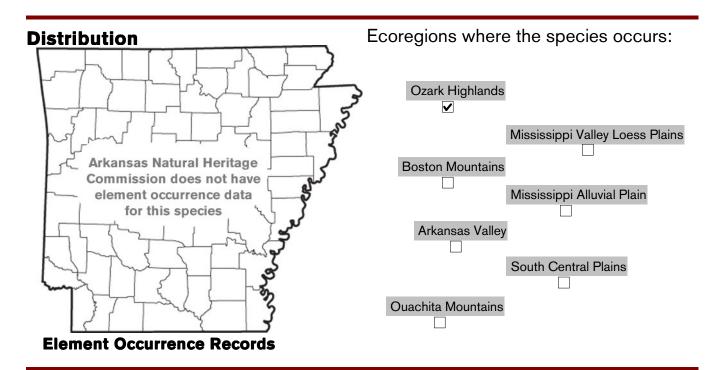
Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

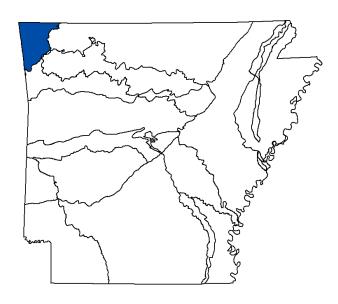


G Rank: G4T3 – Apparently secure (vulnerable subspecies)

S Rank: S1 - Critically imperiled in Arkansas



Taxa Association Team and Reviewers



Ecobasins

Ozark Highlands - Arkansas River

Habitats	Weight
Natural Pool: Headwater - Small	Data Gap
Natural Riffle: Headwater - Small	Data Gap
Natural Run: Headwater - Small	Data Gap

Problems Faced

Threat: Habitat destruction Source: Urban development Threat: Nutrient loading

Source: Urban development
Threat: Sedimentation
Source: Road construction

Threat: Sedimentation Source: Urban development

Data Gaps/Research Needs

Establish genetic status relative to other subspecies.

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Habitat Restoration/Improvement
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a rather plain brown, medium-sized crayfish (Pflieger 1996).

Inhabits rocky streams in extreme northwest Arkansas and eastern Oklahoma (Hobbs 1989).

Aquatic Crayfish Report

Orconectes menae crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 27 out of 100

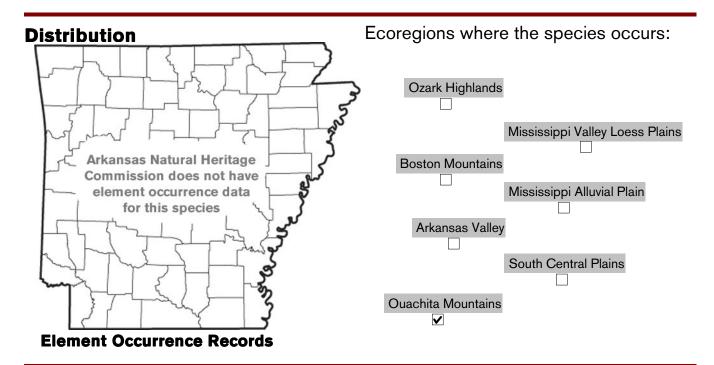
Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

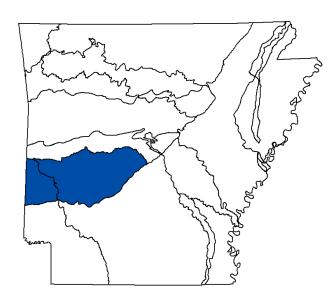
G Rank: G3 - Vulnerable species

S Rank: S3 - Vulnerable in Arkansas





Taxa Association Team and Reviewers



Ecobasins

Ouachita Mountains - Ouachita River

Ouachita Mountains - Red River

Habitats	Weight
Natural Pool: - Small - Medium	Data Gap
Natural Riffle: - Small - Medium	Data Gap
Natural Run: - Small - Medium	Data Gap

Problems Faced

Threat: Habitat disturbance
Source: Forestry activities
Threat: Sadimentation

Threat: Sedimentation
Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Habitat Restoration/Improvement
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a medium-sized olive to brown crayfish (Brian K. Wagner, personal communication).

Restricted to four counties in the upper Ouachitas of extreme western Arkansas and eastern Oklahoma (Hobbs 1989).

Aquatic Crayfish Report

Orconectes nana crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 30 out of 100

Secure ______ Imperiled O 25 50 75 100

Population Trend: Unknown

G Rank: G3 – Vulnerable speciesS Rank: S2 – Imperiled in Arkansas



Distribution

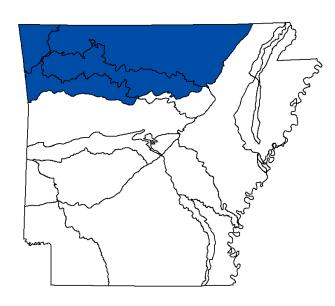
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Ecoregions where the species occurs:



Taxa Association Team and Reviewers

Element Occurrence Records



Ecobasins

Boston Mountains - Arkansas River

Boston Mountains - White River

Ozark Highlands - Arkansas River

Ozark Highlands - White River

Habitats Weight

Natural Pool: - Small - Medium Data Gap
Natural Riffle: - Small - Medium Data Gap
Natural Run: - Small - Medium Data Gap

Problems Faced

Threat: Habitat destruction Source: Urban development

Threat: Nutrient loading Source: Urban development Threat: Sedimentation

Source: Road construction
Threat: Sedimentation
Source: Urban development

Data Gaps/Research Needs

Determine taxonomic and genetic relationship to O. macrus.

Survey for additional populations.

Conservation Actions Importance Category

Maintain or, where necessary, restore water quality and Medium Habitat Protection stream habitat.

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a diminutive crayfish (maximum 2 inches long), tan with a dark saddle and may have brown speckles (Chris Taylor, personal communication)

Inhabits clear gravelly streams of the Arkansas River drainage in northwest Arkansas and northeast Oklahoma (Williams 1954). The separation between O. macrus and O. nana is somewhat unclear and warrants further study.

Aquatic Crayfish Report

Orconectes neglectus chaenodactylus Ringed Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 34 out of 100

Secure ______ Imperiled O 25 50 75 100

Population Trend: Increasing

G Rank: G5T2 - Secure (imperiled subspecies)

S Rank: S2 - Imperiled in Arkansas



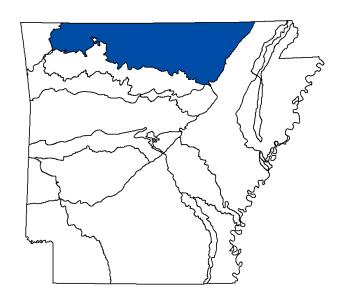
Distribution

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Ecoregions where the species occurs:



Element Occurrence Records Taxa Association Team and Reviewers



Ecobasins

Ozark Highlands - White River

Habitats	Weight
Natural Pool: Headwater - Small - Medium	Suitable
Natural Riffle: Headwater - Small - Medium	Suitable
Natural Run: Headwater - Small - Medium	Suitable

Problems Faced

Threat: Habitat disturbance Source: Resource extraction

Threat: Riparian Habitat Destruction

Source: Road construction
Threat: Sedimentation
Source: Forestry activities

Threat: Sedimentation Source: Road construction

Data Gaps/Research Needs

Establish genetic status relative to other subspecies.

Survey for additional populations.

Conservation Actions	Importance	Category
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Restoration/Improvement

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a medium to large, brown crayfish with a dark saddle, a pale band on lower side of abdomen, red-tipped claws with brown or black ring around tip (Pflieger 1996).

This subspecies is restricted to the area from the North Fork White River Basin to Sylamore Creek (Hobbs 1989). It has recently appeared in the Spring River basin (Dan Magoulick, personal communication).

Aquatic Crayfish Report

Orconectes williamsi

William's Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 50 out of 100

Secure ______ Imperiled O 25 50 75 100

Population Trend: Unknown

G Rank: G2 - Imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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Ecoregions where the species occurs:



Taxa Association Team and Reviewers

Element Occurrence Records



Ecobasins

Boston Mountains - White River

Ozark Highlands - White River

Habitats	Weight
Natural Pool: Headwater - Small	Suitable
Natural Riffle: Headwater - Small	Suitable
Natural Run: Headwater - Small	Optimal
Natural Spring Run: Headwater - Small	Optimal

Problems Faced

Threat: Habitat destruction Source: Urban development Threat: Habitat disturbance Source: Resource extraction Threat: Habitat disturbance Source: Road construction

Threat: Nutrient loading Source: Urban development

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
Maintain or, where necessary, restore water quality and	Medium	Habitat Protection
stream habitat.		

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a small crayfish (shorter than 2 inches long) that is gray to tan in color with a vase shaped pale zone on the carapace (Plieger 1996).

This species has localized occurrences in small headwater creeks of the upper White River basin. Status surveys are in progress in Missouri (Bob Destefano, personal communication) and Arkansas (Brian K Wagner, personal communication).

Bouchardina robisoni crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1 – Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

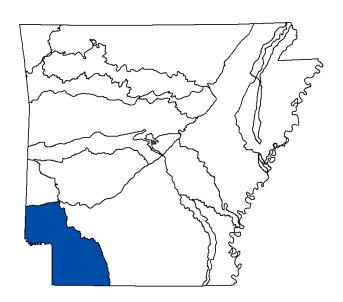
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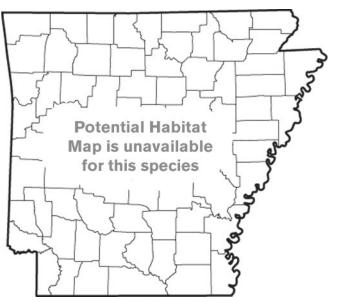
Ecoregions where the species occurs:



Element Occurrence Records

Taxa Team and reviewers





Potential Terrestrial Habitat



Ecobasins

South Central Plains - Red River

Terrestrial Habitats

West Gulf Coastal Plain Seepage Swamp and Baygall Data Gap

Aquatic Habitats

Natural Pool: Headwater	Data Gap
Natural Riffle: Headwater	Data Gap
Natural Seep: Headwater - Small	Data Gap
Natural Swamp/Wetlands: Headwater - Small	Data Gap

Problems Faced

Threat: Habitat disturbance
Source: Road construction
Threat: Hydrological alteration
Source: Forestry activities
Threat: Toxins/contaminants
Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a small (approximately 1/2 inch carapace length), grayish-tan crayfish with reddish-tan carapace with U-shaped rust markings on the sides (Hobbs 1977).

This species is an Arkansas endemic known from few sites. A study is currently underway to assess its status and distribution (Robison, Henry W., personal communication).

Cambarus aculabrum crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Stable

G Rank: G1 – Critically imperiled speciesS Rank: S1 – Critically imperiled in Arkansas



Distribution

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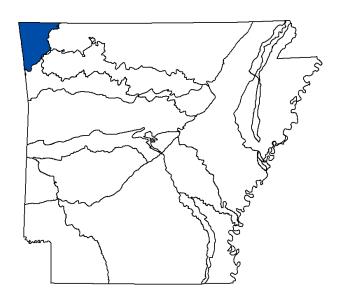
Ecoregions where the species occurs:

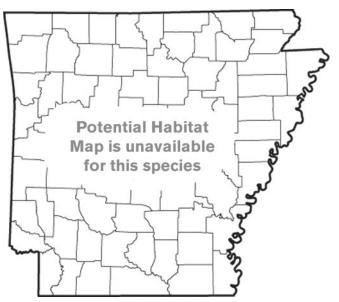


Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner

Element Occurrence Records





Potential Terrestrial Habitat



Ecobasins

Ozark Highlands - Arkansas River

Terrestrial Habitats	
Caves, Mines & Karst Habitat	Obligate
Aquatic Habitats	
Natural Cave Stream: - Small - Medium	Obligate
Natural Groundwater:	Obligate
Natural Spring Run: Headwater	Marginal

Problems Faced

Threat: Hydrological alteration Source: Urban development

Threat: Nutrient loading

Source: Confined animal operations

Threat: Nutrient loading Source: Urban development

Threat: Sedimentation
Source: Road construction
Threat: Toxins/contaminants

Source: Confined animal operations

Data Gaps/Research Needs

Determine life history information.

Determine taxonomic relationships.

Survey and model for additional populations.

Conservation Actions	Importance	Category
Maintain groundwater quality.	High	Threat Abatement
Protect cave habitat and recharge zone from development or disturbance.	High	Habitat Protection

Monitoring Strategies

Monitor known occurrences using protocols developed by the Fish and Wildlife Service.

Comments

Description: a small (maximum 28mm carapace length), unpigmented troglobitic crayfish with reduced eyes. (Hobbs and Brown 1987).

This crayfish is endemic to northwest Arkansas, known from very few caves, and has been listed as endangered (USFWS 1993). The species is threatened by water quality degradation, small population size, limited reproductive potential, and possible take by humans. (USFWS 1996). Recent discoveries have expanded the known distribution of this species to four sites. (Mike Slay, personal communication).

Cambarus causeyi crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1 - Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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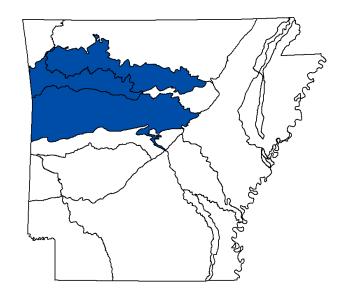
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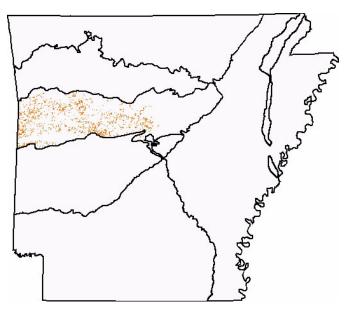


Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner

Element Occurrence Records





Potential Terrestrial Habitat



Ecobasins

Arkansas Valley - Arkansas River

Boston Mountains - Arkansas River

Boston Mountains - White River

Terrestrial Habitats

Ozark-Ouachita Riparian	Marginal	
Aquatic Habitats		
Natural Seep: Headwater	Obligate	
Natural Spring Run: Headwater	Suitable	

Problems Faced

Threat: Groundwater depletion

Source: Excessive groundwater withdrawal

Threat: Habitat disturbance Source: Resource extraction

Threat: Riparian Habitat Destruction

Source: Forestry activities

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Habitat Restoration/Improvement
Maintain or, where necessary, restore water quality and stream habitat.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a strongly compressed, olive-colored crayfish that is poorly known. (Robison and Allen 1995).

This Arkansas endemic crayfish inhabits complex burrows on hillsides near springs in the Boston Mountains. (Bouchard and Robison 1980). It is most closely related to three troglobitic species. (Reimer 1966). A status and distribution study of this species has been proposed for FY06. (Brian Wagner, personal communication).

Cambarus setosus

Bristly Cave Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 27 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G4 – Apparently secure species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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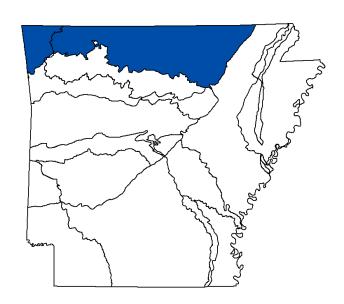
Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner

Element Occurrence Records





Potential Terrestrial Habitat



Ecobasins

Ozark Highlands - Arkansas River

Ozark Highlands - White River

Terrestrial Habitats

Caves, Mines & Karst Habitat Obligate

Aquatic Habitats

Natural Cave Stream: - Small

Natural Groundwater:

Obligate

Problems Faced

Threat: Hydrological alteration Source: Urban development

Threat: Nutrient loading

Source: Confined animal operations

Threat: Sedimentation
Source: Road construction
Threat: Toxins/contaminants
Source: Road construction

Data Gaps/Research Needs

Conduct taxonomic analyses

Determine life history characteristics

Survey and model for additional populations.

Conservation Actions	Importance	Category
Maintain groundwater quality.	Medium	Threat Abatement
Protect cave habitat and recharge zone from development or disturbance.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a small (maximum 4.7 inches total length), unpigmented troglobitic crayfish with reduced eyes. (Pflieger 1996).

This crayfish is endemic to caves of the Ozarks in Missouri and Oklahoma. (Hobbs 1989). Recent unpublished discoveries have found this species in Arkansas as well. (Horton H. Hobbs III, personal communication).

Cambarus zophonastes Hell Creek Crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Stable

G Rank: G1 - Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

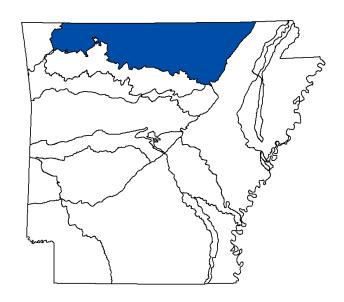
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Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

Ozark Highlands - White River

Terrestrial Habitats	
Caves, Mines & Karst Habitat	Obligate
Aquatic Habitats	
Natural Cave Stream: - Small - Medium	Obligate
Natural Groundwater:	Obligate
Natural Spring Run: - Small - Medium	Marginal

Problems Faced

Threat: Habitat disturbance
Source: Forestry activities

Threat: Habitat disturbance
Source: Urban development

Threat: Sedimentation
Source: Road construction

Threat: Toxins/contaminants
Source: Road construction

Data Gaps/Research Needs

Refine delineation of recharge area and identify threats therein.

Survey and model for additional populations.

Conservation Actions	Importance	Category
Maintain groundwater quality.	High	Threat Abatement
Protect cave habitat and recharge zone from development or disturbance.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurences using protocols determined by the US Fish and Wildlife Service.

Comments

Description: an obligate cave dweller lacking pigment, with long thin appendages and reduced eyes. (Robison and Allen 1995).

An Arkansas endemic known only from a single cave in Stone county which is owned by the Arkansas Natural Heritage Commission. Protection of the cave's recharge area is the primary focus of recovery. (USFWS 1988). While populations persist at what is likely historic levels its limited distribution makes it vulnerable to impacts. (Graening and others, in progress).

Fallicambarus gilpini crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1 – Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

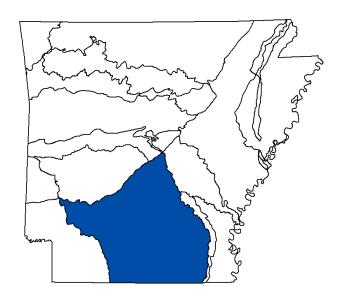
The state of the s

Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

South Central Plains - Ouachita River

Terrestrial Habitats

West Gulf Coastal Plain Seepage Swamp and Baygall Suitable

Aquatic Habitats

Natural Groundwater:

Natural Seep: - Small

Suitable

Problems Faced

Threat: Habitat disturbance Source: Road construction Threat: Toxins/contaminants Source: Road construction

Data Gaps/Research Needs

Determine habitat requirements.

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a burrowing crayfish often blueish in color. (Hobbs and Robison 1989).

This Arkansas endemic crayfish is restricted to a small area southwest of Pine Bluff, Arkansas. It has been documented from six sites in Jefferson County and one site in Cleveland County. (Robison and Wagner, in press). It prefers to burrow on seepage slopes away from standing water areas.

Fallicambarus harpi crayfish

Class: Malacostraca
Order: Decapoda

Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown



©Brian Wagner

G Rank: G1 - Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas

Distribution

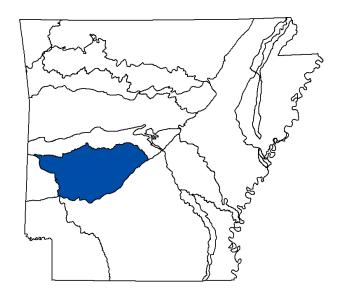
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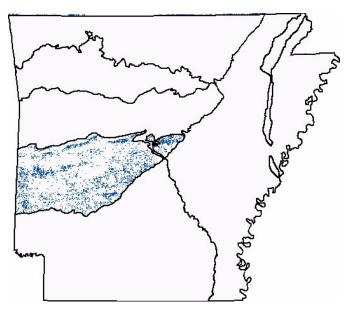
Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

Ouachita Mountains - Ouachita River

Terrestrial Habitats		
Ouachita Mountain Forested Seep	Optimal	
Ouachita Mountain Forested Seep	Suitable	
Pasture Land	Suitable	
Aquatic Habitats		
Natural Groundwater:	Data Gap	
Natural Seep: - Small	Suitable	

Problems Faced

Threat: Habitat disturbance Source: Road construction Threat: Toxins/contaminants Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a burrowing crayfish, tan in color with highly variable patterning (Hobbs and Robison 1985).

This crayfish is endemic to the southern Ouachitas and is known from 12 sites in Garland, Hot Spring, Montgomery, and Pike counties (Robison and Crump 2004).

Fallicambarus jeanae crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 46 out of 100

Secure ______ Imperiled O 25 50 75 100

Population Trend: Unknown

G Rank: G2 - Imperiled species

S Rank: S2 - Imperiled in Arkansas



Distribution

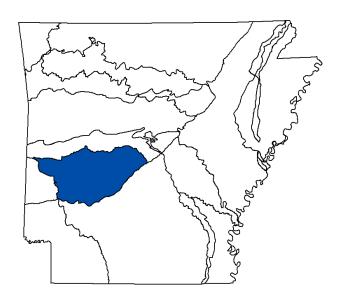
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Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

Ouachita Mountains - Ouachita River

Terrestrial Habitats	
Ouachita Mountain Forested Seep	Optimal
Aquatic Habitats	
Natural Groundwater: - Small	Data Gap
Natural Seep: - Small	Optimal

Problems Faced

Threat: Habitat disturbance Source: Road construction Threat: Toxins/contaminants Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a burrowing crayfish varying in color from tan to grey (Hobbs 1973, Robison and Allen 1995).

This endemic crayfish inhabits burrows in sandy clay soils in Hemptead, Pike, Clark and Hot Spring counties (Robison and Allen 1995).

Fallicambarus petilicarpus crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1 - Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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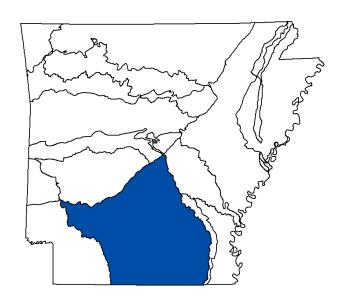
Element Occurrence Records

Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

South Central Plains - Ouachita River

Terrestrial Habitats

West Gulf Coastal Plain Seepage Swamp and Baygall Data Gap

Aquatic Habitats

Natural Groundwater:	Data Gap
Natural Seep: - Small	Suitable

Problems Faced

Threat: Habitat disturbance Source: Road construction Threat: Toxins/contaminants Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection
Monitoring Strategies		

Monitoring Strategies

Determine habitat requirements.

Monitor known occurrences.

Comments

Description: a burrowing crayfish, olive-brown and tan in color (Hobbs and Robison 1989).

This endemic crayfish has been documented from 5 locations in Union and Columbia counties (Robison 2001).

Fallicambarus strawni crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 65 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1G2 - Critically imperiled (uncertain rank)

S Rank: S1 - Critically imperiled in Arkansas



Distribution

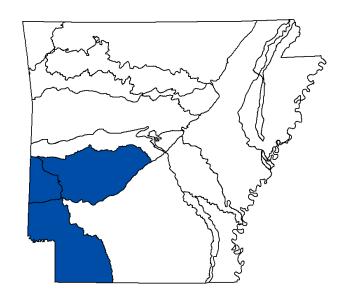
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Ecoregions where the species occurs:



Taxa Team and reviewers

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Potential Terrestrial Habitat



Ecobasins

Ouachita Mountains - Ouachita River

Ouachita Mountains - Red River

South Central Plains - Red River

Terrestrial Habitats

Ouachita Mountain Forested Seep	Data Gap
Ouachita Mountain Forested Seep	Suitable

Aquatic Habitats

Natural Groundwater:	Data Gap
Natural Seep: Headwater - Small	Suitable

Problems Faced

Threat: Habitat destruction or conversion

Source: Road construction

Threat: Habitat disturbance Source: Road construction Threat: Toxins/contaminants

Source: Management of/for certain species

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions Importance Category

Protect known occurrences from construction activities Medium Habitat Protection and herbicide applications.

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a pinkish cream to purplish tan crayfish that was originally described by Riemer (1966).

This endemic crayfish is known from Pike and Howard counties, where it burrows in marshy areas with sandy clay (Robison and Allen 1995).

Faxonella blairi crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 50 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G2 - Imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

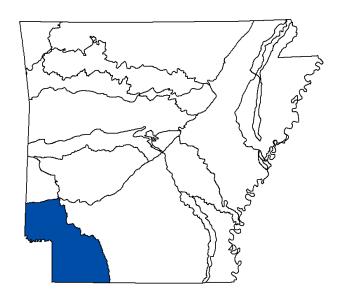
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Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

South Central Plains - Red River

Terrestrial Habitats

West Gulf Coastal Plain Seepage Swamp and Baygall Data Gap

Aquatic Habitats

Natural Swamp/Wetlands: Data Gap

Problems Faced

Threat: Habitat destruction Source: Road construction Threat: Habitat disturbance Source: Forestry activities

Threat: Hydrological alteration Source: Urban development

Threat: Toxins/contaminants Source: Road construction

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions Importance Category

Protect known occurrences from construction activities, Medium Habitat Protection herbicide applications and timber harvesting.

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a small, wetland crayfish with maximum carapace length of 20mm (Hayes and Riemer 1977).

Occurs in southwest Arkansas and southeast Oklahoma (Hayes and Riemer 1977).

Procambarus ferrugineus crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 100out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Decreasing

G Rank: G1 – Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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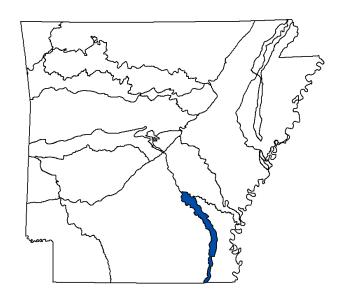
Element Occurrence Records

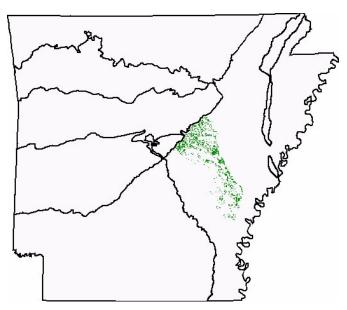
Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

Mississippi River Alluvial Plain - Arkansas River

Ouachita Mountains - Arkansas River

Terrestrial Habitats

Lower Mississippi Alluvial Plain Grand Prairie Obligate

Aquatic Habitats

Natural Groundwater: - Medium Obligate

Problems Faced

Threat: Groundwater depletion Source: Crop production practices

Threat: Habitat destruction

Source: Crop production practices

Threat: Habitat destruction
Source: Road construction
Threat: Toxins/contaminants
Source: Crop production practices

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Habitat Restoration/Improvement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Described from two nearby localities in Lonoke county (Robison and Allen 1995). A study is nearing completion looking at its status and genetics (Robison and Crandall, in preparation).

Procambarus parasimulans crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 23 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G4 – Apparently secure species

S Rank: S2 - Imperiled in Arkansas



Distribution

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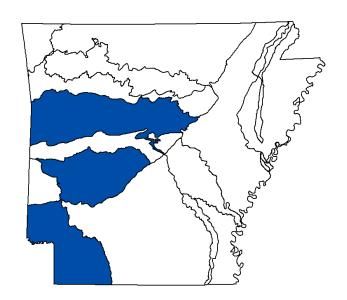
Ecoregions where the species occurs:



Element Occurrence Records

Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

Arkansas Valley - Arkansas River

Ouachita Mountains - Ouachita River

South Central Plains - Red River

Aquatic Habitats

Natural Groundwater: - Small	Suitable
Natural Pool: - Small	Data Gap
Natural Riffle: - Small	Data Gap

Problems Faced

Threat: Groundwater depletion

Source: Excessive groundwater withdrawal

Threat: Habitat destruction
Source: Road construction
Threat: Toxins/contaminants
Source: Crop production practices

Data Gaps/Research Needs

Determine habitat requirements and threats

Survey for additional populations.

Conservation Actions

Importance Category

Protect known occurrences from construction activities A and herbicide applications

Medium Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a tan crayfish, 30 to 40mm in carapace length (Hobbs and Robison 1982).

Procambarus regalis crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 36 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G2G3 - Imperiled (uncertain rank)

S Rank: S2S3 - Imperiled species in Arkansas (uncertain rank)

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Distribution

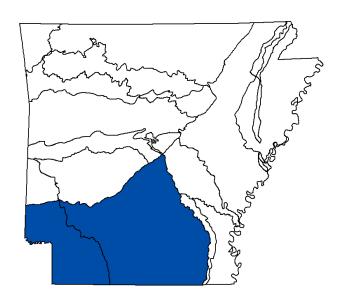
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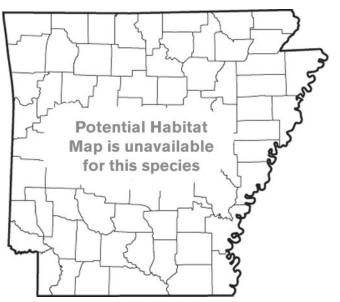
Ecoregions where the species occurs:



Taxa Team and reviewers

AGFC Mr. Brian Wagner, ANHC Mr. Michael Warriner





Potential Terrestrial Habitat



Ecobasins

South Central Plains - Red River

Terrestrial Habitats

West Gulf Coastal Plain Seepage Swamp and Baygall Suitable

Aquatic Habitats

Natural Groundwater:	Data Gap
Natural Seep: Headwater - Small	Suitable

Problems Faced

Threat: Chemical alteration Source: Road construction

Threat: Habitat destruction or conversion

Source: Road construction

Data Gaps/Research Needs

Assess sensitivity to environmental stresses.

Conduct distribution surveys and life history studies.

Conservation Actions

Importance Category

Protect known occurrences from construction activities Medium Habitat Protection and herbicide applications.

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a medium-sized brownish red and orange burrowing crayfish (Robison and Allen 1995).

Inhabits simple burrows in colonies that may be extremely large, in southwestern Arkansas (Hobbs and Robison 1988).

Procambarus reimeri crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 80 out of 100

Secure ______ Imperiled 0 25 50 75 100

Population Trend: Unknown

G Rank: G1 - Critically imperiled species

S Rank: S1 - Critically imperiled in Arkansas



Distribution

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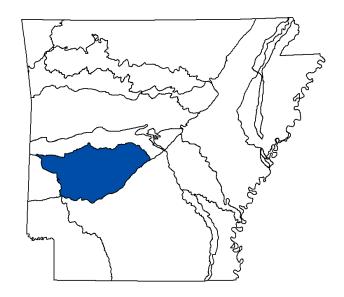
Element Occurrence Records

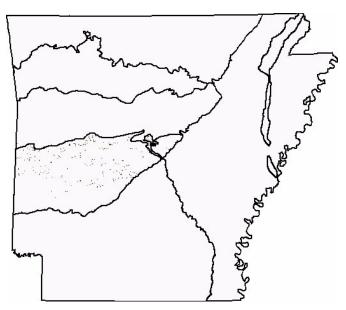
Ecoregions where the species occurs:



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Potential Terrestrial Habitat



Ecobasins

Ouachita Mountains - Ouachita River

Data Gap	
Data Gap	
Data Gap	
Suitable	
	Data Gap

Problems Faced

Threat: Habitat destruction or conversion

Source: Forestry activities

Threat: Habitat destruction Source: Road construction Threat: Toxins/contaminants

Source: Forestry activities

Data Gaps/Research Needs

Identify habitat requirements and threats.

Survey for additional populations.

Conservation Actions	Importance	Category
	Medium	Threat Abatement
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Description: a pinkish cream-colored burrowing crayfish (Robison and Allen 1995).

Known from six localities in the Ouachita River basin of Polk county (Hobbs and Robison 1988).

Procambarus tenuis crayfish

Class: Malacostraca
Order: Decapoda
Family: Cambaridae

Priority Score: 31 out of 100

Secure ______ Imperiled O 25 50 75 100

Population Trend: Unknown

G Rank: G3 – Vulnerable speciesS Rank: S2 – Imperiled in Arkansas



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Distribution

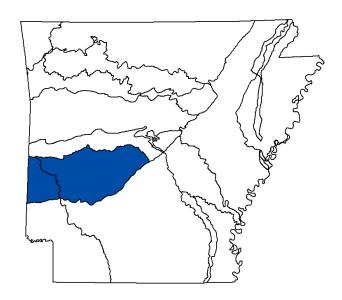
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Ecoregions where the species occurs:



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Potential Terrestrial Habitat



Ecobasins

Ouachita Mountains - Arkansas River

Ouachita Mountains - Ouachita River

Ouachita Mountains - Red River

Terrestrial Habitats

Ouachita Mountain Forested Seep

Data Gap

Aquatic Habitats

Natural Groundwater:	Data Gap
Natural Pool:	Data Gap
Natural Riffle:	Data Gap
Natural Run:	Data Gap
Natural Seep:	Data Gap

Problems Faced

Threat: Habitat destruction Source: Resource extraction Threat: Habitat disturbance Source: Road construction

Threat: Riparian Habitat Destruction

Source: Forestry activities
Threat: Toxins/contaminants
Source: Forestry activities

Data Gaps/Research Needs

Survey for additional populations.

Conservation Actions	Importance	Category
Protect known occurrences from construction activities and herbicide applications.	Medium	Habitat Protection

Monitoring Strategies

Monitor known occurrences.

Comments

Occurs in and adjacent to springs and clear cool streams in the Ouachitas of extreme western Arkansas and eastern Oklahoma (Hobbs 1989).