# Arkansas Valley (Ecoregion 37)

Ecoregion 37 is a synclinal and alluvial valley lying between the Ozark Highlands (39) and the Ouachita Mountains (36). The Arkansas Valley (37) is, characteristically, diverse and transitional. It generally coincides with the Arkoma Basin, an oil and gas province, that developed as sand and mud were deposited in a depression north of the rising Ouachita Mountains during the Mississippian and Pennsylva- nian eras.

The Arkansas Valley (37) contains plains, hills, floodplains, terraces and scattered mountains. It is largely underlain by interbedded Pennsylvanian sandstone, shale and siltstone.

37 **Arkansas Valley** 37a Scattered High Ridges and Mountains 37b Arkansas River Floodplain 37c Arkansas Valley Hills 37d **Arkansas Valley Plains** 

Figure 3.10. Arkansas Valley Ecoregion



Photo by MAWPT

Prior to the 19th century, uplands were dominated by a mix of forest, woodland, savanna and prairie whereas floodplains and lower terraces were covered by bottomland deciduous forest. Today, less rugged upland areas have been cleared for pastureland or hayland. Poultry and livestock farming are important land uses.

Water quality is generally good and influenced more by land use activities than by soils or geology; average stream gradients and dissolved oxygen levels are lower in the Arkansas Valley (37) than in the Ouachita Mountains (36) or Ozark Highlands (39), whereas turbidity, total suspended solids, total organic carbon, total phosphorus and biochemical oxygen demand values are typically higher. The Arkansas River is continuously turbid. Summer flow in smaller streams is typically limited or non- existent.

Fish communities characteristically contain a substantial proportion of sensitive species; a sunfish and minnow-dominated community exists along with substantial proportions of darters and catfishes (particularly madtoms).

### Scattered High Ridges and Mountains

37a. The Scattered High Ridges and Mountains ecoregion is more rugged and wooded than Ecoregions 37b, 37c, or 37d. Ecoregion 37a is characteristically covered by savannas, open woodlands, or forests dominated or codominated by upland oaks, hickory and shortleaf pine; loblolly pine occurs but is not native. It is underlain by Pennsylvanian sandstone and shale; calcareous rocks such as those that dominate the Ozark Highlands (39) are absent.

Nutrient and mineral values (including turbidity and hardness) in streams are slightly higher than

in other parts of the Arkansas Valley (37). Magazine Mountain, the highest point in Arkansas at 2,753 feet, is distinguished by diverse habitats. Its flat top is covered with xeric, stunted woodlands. Mesic sites also occur and may contain beech—maple forests.

### Arkansas River Floodplain

37b. The Arkansas River Floodplain is characteristically veneered with Holocene alluvium and includes natural levees, meander scars, oxbow lakes, point bars, swales and backswamps. It is lithologically and physiographically distinct from the surrounding uplands of the Arkansas Valley (37). Mollisols, Entisols, Alfisols and Inceptisols are common; the soil mosaic sharply contrasts with nearby, higher elevation ecoregions where Ultisols developed under upland oaks, hickory and pine.

Potential natural vegetation is southern floodplain forest. Bottomland oaks includ- ing bur oak, American sycamore, sweetgum, willows, eastern cottonwood, green ash, pecan, hackberry and elm were once extensive. They have been widely cleared for pastureland, hayland and cropland. However, some forest remains in frequently flooded or poorly-drained areas. In Arkansas, bur oak is most dominant in Ecoregion 37b.

#### Arkansas Valley Hills

37c. The Arkansas Valley Hills are underlain by Pennsylvanian sandstone and shale and are lithologically distinct from Ecoregions 37b and 39. Ecoregion 37c is more hilly than the Arkansas Valley Plains (37d) and less rugged than Ecoregions 36, 37a and 38. Ultisols are common and support a potential natural vegetation of oak—hickory forest or oak—hickory—pine forest; both soils and natural vegetation contrast with those of Ecoregion 37b.

Today, pastureland is extensive, but rugged areas are wooded; overall, trees are much less extensive than in neighboring Ecoregions 36d, 37a and 38 but more widespread than in Ecoregions 37b and 37d. Poultry operations, livestock farming and logging are important land uses.

# **Arkansas Valley Plains**

37d. The Arkansas Valley Plains are in the rainshadow of the Fourche Mountains and were once covered by a distinctive mosaic of prairie, savanna and woodland. Ecoregion 37d is mostly undulating but a few hills and ridges occur.

Westward, Ecoregion 37d becomes flatter, drier, more open and has fewer topographic fire barriers. Prior to the 19th century, frequently burned western areas had extensive prairie on droughty soils; scattered pine—oak savanna also occurred. Elsewhere, potential natural vegetation is primarily oak—hickory forest or oak—hickory—pine forest.

Today, pastureland and hayland are extensive but remnants of prairie, particularly the Cherokee Prairie near Fort Smith and woodland occur. Poultry and livestock farming are primary land uses. Cropland agriculture in the Arkansas Valley Plains (37d) is less important than in Ecoregion 37b and wooded areas are not as extensive as in more rugged Ecoregions 36, 37a, 37c and 38. Stream turbidity generally remains low except during storm events (adapted from Woods and others 2004).

### Arkansas Valley Ecoregion:

# Species of Greatest Conservation Need (SGCN)

Species of greatest conservation need (SGCN) in the Arkansas Valley are presented by taxa association (Table 3.11). A higher priority score indicates a greater need for actions to conserve the species. Calculation of the priority score is discussed in Section 2, pages 8-8. A ranked list of all SGCN associated with the ecoregion is presented in Table 3.12.

**Table 3.11.** SGCN by taxa association in the Arkansas Valley ecoregion.

Taxa Association	Common Name	Scientific Name	Priority Score
Amphibian	Crawfish Frog	Lithobates areolatus	23
	Plains Spadefoot	Spea bombifrons	23
	Ringed Salamander	Ambystoma annulatum	19
	Great Plains Narrowmouth Toad	Gastrophryne olivacea	19
	Strecker's Chorus Frog	Pseudacris streckeri	19
	Hurter's Spadefoot	Scaphiopus hurterii	19
	Bird-voiced Treefrog	Hyla avivoca	15
Bird	Piping Plover	Charadrius melodus	43
	Henslow's Sparrow	Ammodramus henslowii	33
	Sprague's Pipit	Anthus spragueii	33
	Bachman's Sparrow	Peucaea aestivalis	33
	King Rail	Rallus elegans	33
	Interior Least Tern	Sterna antillarum athalassos	31
	Buff-breasted Sandpiper	Calidris subruficollis	29
	Rusty Blackbird	Euphagus carolinus	29
	Bewick's Wren	Thryomanes bewickii	29
	Ruddy Turnstone	Arenaria interpres	24
	Smith's Longspur	Calcarius pictus	24
	Common Nighthawk	Chordeiles minor	24
	Migrant Loggerhead Shrike	Lanius ludovicianus migrans	24
	Yellow-crowned Night-Heron	Nyctanassa violacea	24
	American Woodcock	Scolopax minor	24

	Cerulean Warbler	Setophaga cerulea	24
	Rufous-crowned Sparrow	Aimophila ruficeps	23
	American Bittern	Botaurus lentiginosus	23
	Willow Flycatcher	Empidonax traillii	23
	Purple Gallinule	Porphyrio martinicus	23
	Le Conte's Sparrow	Ammodramus leconteii	21
	Sedge Wren	Cistothorus platensis	21
	Sharp-shinned Hawk	Accipiter striatus	19
	Grasshopper Sparrow	Ammodramus savannarum	19
	American Black Duck	Anas rubripes	19
	Anhinga	Anhinga anhinga	19
	Eastern Whip-poor-will	Antrostomus vociferus	19
	Sanderling	Calidris alba	19
	Dunlin	Calidris alpina	19
	Stilt Sandpiper	Calidris himantopus	19
	Chimney Swift	Chaetura pelagica	19
	Yellow-billed Cuckoo	Coccyzus americanus	19
	Northern Bobwhite	Colinus virginianus	19
	Tricolored Heron	Egretta tricolor	19
	Common Gallinule	Gallinula chloropus	19
	Purple Finch	Haemorhous purpureus	19
	Wood Thrush	Hylocichla mustelina	19
	Least Bittern	Ixobrychus exilis	19
	Short-billed Dowitcher	Limnodromus griseus	19
	Swainson's Warbler	Limnothlypis swainsonii	19
	Black-crowned Night-Heron	Nycticorax nycticorax	19
	Black-bellied Plover	Pluvialis squatarola	19
	Bell's Vireo	Vireo bellii	19
	Trumpeter Swan	Cygnus buccinator	17
	American Kestrel	Falco sparverius	15
	American Golden-Plover	Pluvialis dominica	15
Crayfish	Boston Mountains Crayfish	Cambarus causeyi	62
	Bismark Burrowing Crayfish	Procambarus parasimulans	19
Fish	Alabama Shad	Alosa alabamae	52
	Arkansas River Shiner	Notropis girardi	50
	Alligator Gar	Atractosteus spatula	27
	Plains Minnow	Hybognathus placitus	27
	Longnose Darter	Percina nasuta	27
	American Eel	Anguilla rostrata	24
	Paddlefish	Polyodon spathula	24
	Blue Sucker	Cycleptus elongatus	23
	Bluntface Shiner	Cyprinella camura	23
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	Suckermouth Minnow	Phenacobius mirabilis	23
	Brown Bullhead	Ameiurus nebulosus	19
	Sunburst Darter	Etheostoma mihileze	19
	Goldeye	Hiodon alosoides	19
	Mooneye	Hiodon tergisus	19
	Pealip Redhorse	Moxostoma pisolabrum	19
	Striped Mullet	Mugil cephalus	19
	Slenderhead Darter	Percina phoxocephala	19
	Highfin carpsucker	Carpiodes velifer	17
	Lake Chubsucker	Erimyzon sucetta	15
	Highland Darter	Etheostoma teddyroosevelt	15
	Shoal Chub	Macrhybopsis hyostoma	15
	Saddleback Darter	Percina vigil	15
Insect	Magazine Mountain mold beetle	Arianops sandersoni	80
	Magazine stripetail	Isoperla szczytkoi	80
	Nearctic paduniellan caddisfly	Paduniella nearctica	80
	beetle	Rimulincola divalis	80
	mayfly	Paraleptophlebia calcarica	65
	Texas Frosted Elfin	Callophrys irus hadros	42
	American Burying Beetle	Nicrophorus americanus	42
	Dukes' Skipper	Euphyes dukesi	32
	Prairie Mole Cricket	Gryllotalpa major	32
	Mottled Duskywing	Erynnis martialis	29
	Meske's Skipper	Hesperia meskei	29
	Lace-winged Roadside-Skipper	Amblyscirtes aesculapius	27
	Giant Stag Beetle	Lucanus elephus	25
	Diana	Speyeria diana	25
	lace bug	Acalypta susanae	23
	Northern Metalmark	Calephelis borealis	23
	Woodland Tiger Beetle	Cicindela unipunctata	23
	Outis Skipper	Cogia outis	23
	microcaddisfly	Paucicalcaria ozarkensis	23
	Yehl Skipper	Poanes yehl	23
	Byssus Skipper	Problema byssus	23
	Ouachita Pseudactium	Pseudactium magazinensis	23
	King's Hairstreak	Satyrium kingi	23
	ground beetle	Scaphinotus parisiana	23
	Bell's Roadside-Skipper	Amblyscirtes belli	21
	tiger beetle	Cicindela lepida	21
	red milkweed beetle	Tetraopes quinquemaculatus	21
	Texas milkweed beetle	Tetraopes texanus	21
	lace bug	Acalypta lillianus	19
	Arogos Skipper	Atrytone arogos iowa	19
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	Dion Skipper	Euphyes dion	19
	Leonard's Skipper	Hesperia leonardus	19
	Cobweb Skipper	Hesperia metea	19
	Small-eyed Mold Beetle	Ouachitychus parvoculus	19
	Gray Comma	Polygonia progne	19
	Oak Hairstreak	Satyrium favonius ontario	19
	Ant-like Tiger Beetle	Cicindela cursitans	17
	Big Sand tiger beetle	Cicindela formosa pigmentosignata	17
	Beach-dune Tiger Beetle	Cicindela hirticollis	17
	Sandy Stream Tiger Beetle	Cicindela macra	17
	Gorgone Checkerspot	Chlosyne gorgone	15
	Monarch	Danaus plexippus	15
	Twelve-spotted Tiger Beetle	Cicindela duodecimguttata	13
Invertebrate - other	Magazine Mountain Shagreen	Inflectarius magazinensis	80
	Striate Supercoil	Paravitrea aulacogyra	80
	Calico Rock Oval	Patera clenchi	65
	Elevated Spring Amphipod	Stygobromus elatus	50
	Hubricht's Long-tailed Amphipod	Allocrangonyx hubrichti	42
	isopod	Caecidotea dimorpha	42
	isopod	Lirceus bicuspidatus	27
Mammal	Northern Long-eared Bat	Myotis septentrionalis	63
	Eastern Small-Footed Bat	Myotis leibii	34
	Little Brown Bat	Myotis lucifugus	33
	Rafinesque's Big-Eared Bat	Corynorhinus rafinesquii	29
	Southeastern Bat	Myotis austroriparius	24
	Black-tailed Jackrabbit	Lepus californicus	21
	Eastern Spotted Skunk	Spilogale putorius	21
	Crawford's Gray Shrew	Notiosorex crawfordi	19
	Eastern Harvest Mouse	Reithrodontomys humulis	19
	Southeastern Shrew	Sorex longirostris	19
	Gray Bat	Myotis grisescens	16
	American Badger	Taxidea taxus	16
	Long-tailed Weasel	Mustela frenata	15
Mussel	Purple Lilliput	Toxolasma lividum	52
	Bleedingtooth Mussel	Venustaconcha pleasii	23
	Elktoe	Alasmidonta marginata	19
	Lilliput	Toxolasma parvum	19
	Round Pigtoe	Pleurobema sintoxia	17
	Little Spectaclecase group	Villosa sp. Cf lienosa	17
	Fatmucket	Lampsilis siliquoidea	15
	"Arkoma" Fatmucket	Lampsilis sp. A	15
	Fawnsfoot	Truncilla donaciformis	15
Reptile	Queen Snake	Regina septemvittata	29
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Collared Lizard	Crotaphytus collaris	24
Great Plains Skink	Plestiodon obsoletus	23
Western Chicken Turtle	Deirochelys reticularia miaria	19
Southern Prairie Skink	Plestiodon obtusirostris	19
Graham's Crayfish Snake	Regina grahamii	19
Ornate Box Turtle	Terrapene ornata ornata	19
Western Diamondback Rattlesnake	Crotalus atrox	17
Gulf Swampsnake	Liodytes rigida	15
Slender Glass Lizard	Ophisaurus attenuatus	15

**Table 3.12.** Species of greatest conservation need (SGCN) in the Arkansas Valley ranked by priority score. A higher priority score indicates a greater need for actions to conserve the species. Of the 377 SGCN, 159 occur in this ecoregion.

Pric Sco	re Common Name	Scientific Name	Taxa Association
80	Magazine Mountain mold beetle	Arianops sandersoni	Insect
80	Magazine Mountain Shagreen	Inflectarius magazinensis	Invertebrate - other
80	Magazine stripetail	Isoperla szczytkoi	Insect
80	Nearctic paduniellan caddisfly	Paduniella nearctica	Insect
80	Striate Supercoil	Paravitrea aulacoavra	Invertebrate - other
80	beetle	Rimulincola divalis	Insect
65	mavflv	Paraleptophlebia calcarica	Insect
65	Calico Rock Oval	Patera clenchi	Invertebrate - other
63	Northern Long-eared Bat	Mvotis septentrionalis	Mammal
62	Boston Mountains Cravfish	Cambarus causevi	Cravfish
52	Alabama Shad	Alosa alabamae	Fish
52	Purple Lilliput	Toxolasma lividum	Mussel
50	Arkansas River Shiner	Notropis airardi	Fish
50	Elevated Spring Amphipod	Styaobromus elatus	Invertebrate - other
43	Piping Plover	Charadrius melodus	Bird
42	Hubricht's Long-tailed Amphipod	Allocrangonyx hubrichti	Invertebrate - other
42	isopod	Caecidotea dimorpha	Invertebrate - other
42	Texas Frosted Elfin	Callophrys irus hadros	Insect
42	American Burving Beetle	Nicrophorus americanus	Insect
34	Eastern Small-Footed Bat	Myotis leibii	Mamma
33	Henslow's Sparrow	Ammodramus henslowii	Bird
33	Sprague's Pipit	Anthus spraqueii	Bird
33	Little Brown Bat	Myotis lucifugus	Mammal
33	Bachman's Sparrow	Peucaea aestivalis	Bird
33	King Rail	Rallus elegans	Bird
32	Dukes' Skipper	Euphyes dukesi	Insect
32	Prairie Mole Cricket	Gryllotalpa maior	Insect
31	Interior Least Tern	Sterna antillarum athalassos	Bird
29	Buff-breasted Sandpiper	Calidris subruficollis	Bird
29	Rafinesque's Big-Eared Bat	Corvnorhinus rafinesquii	Mammal
29	Mottled Duskywing	Erynnis martialis	Insect
29	Rusty Blackbird	Euphagus carolinus	Bird
29	Meske's Skipper	Hesperia meskei	Insect
29	Queen Snake	Reaina septemvittata	Reptile
29	Bewick's Wren	Thryomanes bewickii	Bird
27	Lace-winged Roadside-Skipper	Amblyscirtes aesculapius	Insect
27	Alligator Gar	Atractosteus spatula	Fish
27	Plains Minnow	Hyboanathus placitus	Fish
27	isopod	Lirceus bicuspidatus	Invertebrate - other
27	Longnose Darter	Percina nasuta	Fish
25	Giant Stag Beetle	Lucanus elephus	Insect
25	Diana	Speveria diana	Insect
24	American Eel	Anquilla rostrata	Fish
24	Ruddy Turnstone	Arenaria interpres	Bird

Prior Scor	e Common Name	Scientific Name	Taxa Association
24	Smith's Longspur	Calcarius pictus	Biro
24	Common Nighthawk	Chordeiles minor	Biro
24	Collared Lizard	Crotaphytus collaris	Reptile
24	Migrant Loggerhead Shrike	Lanius ludovicianus migrans	Biro
24	Southeastern Bat	Myotis austroriparius	Mamma
24	Yellow-crowned Night-Heron	Nyctanassa violacea	Biro
24	Paddlefish	Polyodon spathula	Fish
24	American Woodcock	Scolopax minor	Bird
24	Cerulean Warbler	Setophaga cerulea	Bird
23	lace bug	Acalypta susanae	Insect
23	Rufous-crowned Sparrow	Aimophila ruficeps	Bird
23	American Bittern	Botaurus lentiginosus	Bird
23	Northern Metalmark	Calephelis borealis	Insect
23	Woodland Tiger Beetle	Cicindela unipunctata	Insect
23	Outis Skipper	Cogia outis	Insect
23	Blue Sucker	Cycleptus elongatus	Fish
23 23	Bluntface Shiner	Cyprinella camura	Fish
23 23	Willow Flycatcher	Empidonax traillii	Bird
23 23	Crawfish Frog	Lithobates areolatus	Amphibian
23 23	microcaddisfly	Paucicalcaria ozarkensis	Insect
23 23	Suckermouth Minnow	Phenacobius mirabilis	Fish
23	Great Plains Skink	Plestiodon obsoletus	Reptile
23	Yehl Skipper	Poanes yehl	Insect
23	Purple Gallinule	Porphyrio martinicus	Bird
23	Byssus Skipper	Problema byssus	Insect
23	Ouachita Pseudactium	Pseudactium magazinensis	Insect
23	King's Hairstreak	Satyrium kingi	Insect
23	ground beetle	Scaphinotus parisiana	Insect
23	Plains Spadefoot	Spea bombifrons	Amphibian
23	Bleedingtooth Mussel	Venustaconcha pleasii	Musse
21	Le Conte's Sparrow	Ammodramus leconteii	Bird
21	Bell's Roadside-Skipper	Amblyscirtes belli	Insect
21	tiger beetle	Cicindela lepida	Insect
21	Sedge Wren	Cistothorus platensis	Bird
21	Black-tailed Jackrabbit	Lepus californicus	Mamma
21	Eastern Spotted Skunk	Spilogale putorius	Mamma
21	red milkweed beetle	Tetraopes quinquemaculatus	Insect
21	Texas milkweed beetle	Tetraopes texanus	Insect
19	lace bug	Acalypta lillianus	Insect
19	Sharp-shinned Hawk	Accipiter striatus	Bird
19	Elktoe	Alasmidonta marqinata	Musse
19	Ringed Salamander	Ambystoma annulatum	Amphibian
19	Brown Bullhead	Ameiurus nebulosus	Fish
19	Grasshopper Sparrow	Ammodramus savannarum	Bird
19	American Black Duck	Anas rubripes	Bird
19	Anhinga	Anhinga anhinga	Bird
19	Eastern Whip-poor-will	Antrostomus vociferus	Bird
19	Arogos Skipper	Atrytone arogos iowa	Insect
19	Sanderling	Calidris alba	Bird
19	Dunlin	Calidris alpina	Bird

Score	Common Name	Scientific Name	Taxa Association
19	Stilt Sandpiper	Calidris himantopus	Biro
19	Chimney Swift	Chaetura pelagica	Biro
19	Yellow-billed Cuckoo	Coccyzus americanus	Biro
19	Northern Bobwhite	Colinus virginianus	Biro
19	Western Chicken Turtle	Deirochelys reticularia miaria	Reptile
19	Tricolored Heron	Egretta tricolor	Biro
	Sunburst Darter	Etheostoma mihileze	Fish
19	Dion Skipper	Euphyes dion	Insect
19	Common Gallinule	Gallinula chloropus	Biro
19	Great Plains Narrowmouth Toad	Gastrophryne olivacea	Amphibiar
19	Purple Finch	Haemorhous purpureus	Biro
19	Leonard's Skipper	Hesperia leonardus	Insect
19	Cobweb Skipper	Hesperia metea	Insect
19	Goldeye	Hiodon alosoides	Fish
19	Mooneye	Hiodon tergisus	Fish
19	Wood Thrush	Hylocichla mustelina	Bird
19	Least Bittern	Ixobrychus exilis	Bird
	Short-billed Dowitcher	Limnodromus griseus	Bird
	Swainson's Warbler	Limnothlypis swainsonii	Bird
19	Pealip Redhorse	Moxostoma pisolabrum	Fish
	Striped Mullet	Muqil cephalus	Fish
19	Crawford's Gray Shrew	Notiosorex crawfordi	Mamma
19	Black-crowned Night-Heron		Bird
19	Small-eyed Mold Beetle	Nycticorax nycticorax Ouachitychus parvoculus	
			Insect
	Slenderhead Darter	Percina phoxocephala	Fish
	Southern Prairie Skink	Plestiodon obtusirostris	Reptile
19	Black-bellied Plover	Pluvialis squatarola	Bird
19	Gray Comma	Polygonia progne	Insect
19	Bismark Burrowing Crayfish	Procambarus parasimulans	Crayfish
19	Strecker's Chorus Frog	Pseudacris streckeri	Amphibian
19	Graham's Crayfish Snake	Regina grahamii	Reptile
19	Eastern Harvest Mouse	Reithrodontomys humulis	Mamma
19	Oak Hairstreak	Satyrium favonius ontario	Insect
19	Hurter's Spadefoot	Scaphiopus hurterii	Amphibian
19	Southeastern Shrew	Sorex longirostris	Mamma
19	Ornate Box Turtle	Terrapene ornata ornata	Reptile
19	Lilliput	Toxolasma parvum	Musse
19	Bell's Vireo	Vireo bellii	Bird
17	Highfin carpsucker	Carpiodes velifer	Fish
17	Ant-like Tiger Beetle	Cicindela cursitans	Insect
17	Big Sand tiger beetle	Cicindela formosa piamentosianata	Insect
17	Beach-dune Tiger Beetle	Cicindela hirticollis	Insect
17	Sandy Stream Tiger Beetle	Cicindela macra	Insect
17	Western Diamondback Rattlesnake	Crotalus atrox	Reptile
17	Trumpeter Swan	Cyanus buccinator	Biro
17	Round Pigtoe	Pleurobema sintoxia	Musse
17	Little Spectaclecase group	Villosa sp. Cf lienosa	Musse
16	Gray Bat	Myotis grisescens	Mamma
16	American Badger	Taxidea taxus	Mamma
16 16	Gray Bat	Myotis grisescens	

Scor	e Common Name	Scientific Name	Taxa Association
15	Monarch	Danaus nlexinnus	Insect
15	Lake Chubsucker	Erimyzon sucetta	Fish
15	Highland Darter	Etheostoma teddyroosevelt	Fish
15	American Kestrel	Falco sparverius	Bird
15	Bird-voiced Treefrog	Hyla avivoca	Amphibian
15	Fatmucket	Lampsilis siliquoidea	Mussel
15	"Arkoma" Fatmucket	Lampsilis sp. A	Mussel
15	Gulf Swampsnake	Liodytes rigida	Reptile
15	Shoal Chub	Macrhybopsis hyostoma	Fish
15	Long-tailed Weasel	Mustela frenata	Mammal
15	Slender Glass Lizard	Ophisaurus attenuatus	Reptile
15	Saddleback Darter	Percina vigil	Fish
15	American Golden-Plover	Pluvialis dominica	Bird
15	Fawnsfoot	Truncilla donaciformis	Mussel
13	Twelve-spotted Tiger Beetle	Cicindela duodecimauttata	Insect

### Habitats that occur in the Arkansas Valley

Of the 37 terrestrial habitats in Arkansas, 20 occur in the Arkansas Valley ecoregion (Table 3.14). Of 18 ecobasins in Arkansas, two occur in the Arkansas Valley ecoregion (Figure 3.11). These associations are described in the Section 4. Terrestrial Habitats, pages 1188-1575 and Section 5. Aquatic Habitats, pages 1576-1612.

Table 3.14. Terrestrial Habitats in the Arkansas Valley

Habitat Name

Caves, Mines, Sinkholes, and other Karst Habitat

Crop Land

**Cultivated Forest** 

Herbaceous Wetland

Interior Highlands Dry Acidic Glade and Barrens

Mud Flats

Ouachita Montane Oak Forest

Ozark-Ouachita Cliff and Talus

Ozark-Ouachita Dry Oak and Pine Woodland

Ozark-Ouachita Dry-Mesic Oak Forest

Ozark-Ouachita Forested Seep

Ozark-Ouachita Large Floodplain

Ozark-Ouachita Mesic Hardwood Forest

Ozark-Ouachita Prairie and Woodland

Ozark-Ouachita Pine/Bluestem Woodland

Ozark-Ouachita Pine-Oak Forest/Woodland

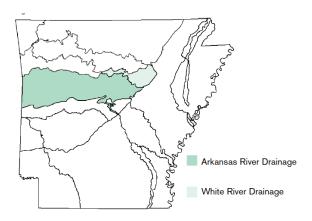
Ozark-Ouachita Riparian

Pasture Land

Ponds, Lakes, and Water Holes

Urban/Suburban

Figure 3.11. Ecobasin Distribution in the Arkansas Valley



# Problems faced by Species of Greatest Conservation Need (SGCN)

Taxa association teams listed problems faced by SGCN individually in the Species Reports, pages 44-1113. A summary of the problems faced by SGCN in the Arkansas Valley is presented below. Each problem has a score which is a sum of all Species Priority Scores associated with species for which this problem was assigned. A higher score implies a higher quantity of SGCN and/or more greatly imperiled species associated with problems listed here.

**Table 3.15.** Problems faced by SGCN in the Arkansas Valley.

Score
1825
1799
1168
989
741
726
623
497
423
334
318
311
277
274
244
234
229
170
164
150
121
103
82

unknown	52
Interspecific competiton	48

### Conservation actions needed in the Arkansas Valley

Descriptions of conservation actions linked to individual species on the list of SGCN are presented in the Species Reports, pages 41-1113. Below are categories of conservation actions recommended by the taxa association teams (Figure 3.12). An explanation of the categories follows in Table 3.16.

The score associated with the conservation action category is the sum of all priority scores associated with species for which a conservation action has been assigned, weighted by the importance of the conservation action category to the species. A higher score implies a higher quantity of SGCN and/or more greatly imperiled species would be affected by actions within this conservation action category.

These scores may be used as guides to directing the apportionment of funding toward conservation actions benefiting habitats and species of greatest conservation need.

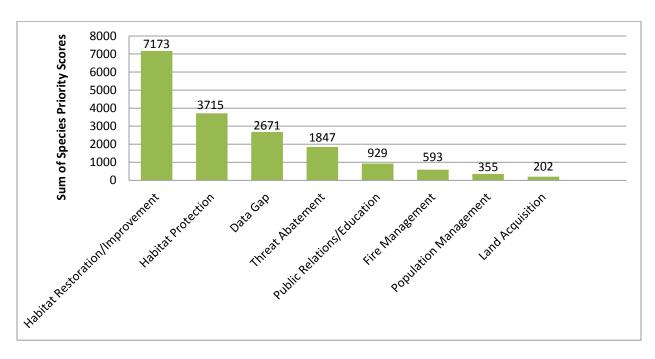


Figure 3.12. Conservation action categories recommended for the Arkansas Valley.