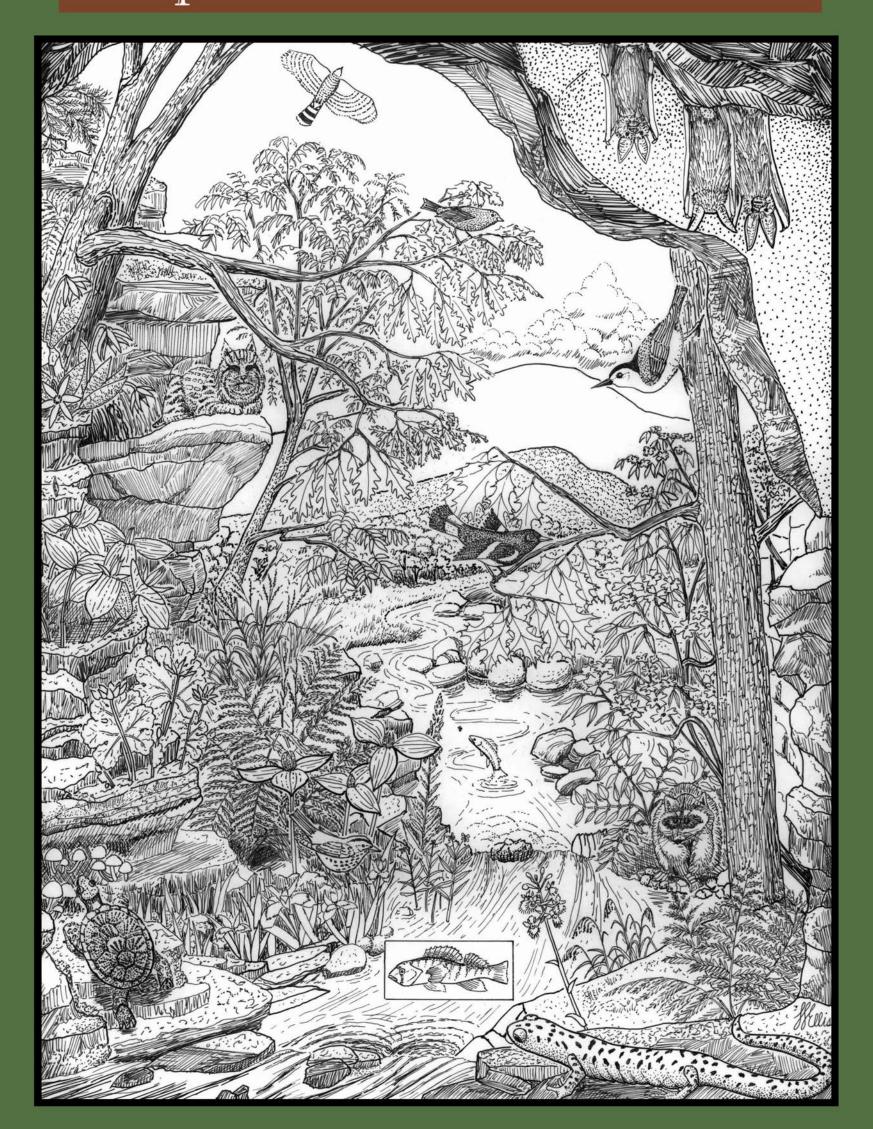
Upland Hardwood Forest



hardwood forest include white oak, black oak, and southern red oak together with mockernut hickory and shagbark hickory.

Factors such as soils, moisture, elevation, sunlight, wind and fire determine which species will make up the community. For example, if wind and fire open the canopy (uppermost forest layer) and reduce competing vegetation in the understory, oak and hickory seedlings can develop into the dominant trees. Since these trees are deciduous (seasonally shed their leaves), many plants in the understory have growth cycles adapted to bloom in early spring before new canopy tree leaves block the sunlight.

Current Status in Arkansas: Although relatively large areas of upland hardwood forest still remain in Arkansas, years of fire suppression and other forest management practices have changed their composition and appearance. Without periodic fires, competing tree species such as red maple have "shaded out" young oak seedlings and greatly reduced the regeneration of oaks. The lack of fire has also enabled more tree species to survive, resulting in a denser forest than existed 150-200 years ago. The use of fire as a management tool could play an important role in preserving oak dominance and ensuring the long-term integrity of the upland hardwood forest system.



http://www.naturalheritage.com

Arkansas Natural Heritage Commission
1500 Tower Building • 323 Center Street • Little Rock, AR 72201
501-324-9619 • email: arkansas@naturalheritage.org

Species Key

Quercus alba

1.	Three-toed Box Turtle Terrapene carolina triunguis	10.	Mockernut Hickory Carya tomentosa	19.	Smallmouth Bass Micropterus dolomieui
2.	Crested Iris Iris cristata	11.	Cooper's Hawk Accipiter cooperii	20.	Cardinal Flower Lobelia cardinalis
3.	Ovenbird Seiurus aurocapillus	12.	Scarlet Tanager Piranga olivacea	21.	Water Willow Justicia americana
4.	Purple Trillium Trillium recurvatum	13.	Ozark Big-eared Bat Plecotus townsendi ingens	22.	Raccoon Procyon lotor
5.	Bloodroot Sanguinaria canadensis	14.	White-breasted Nuthatch Sitta carolinensis	23.	Southern Lady Fern Athyrium filix-femina
ô.	Sessile Woodoats Chasmanthium sessiliflorum	15.	Black Oak Quercus velutina	24.	Inland Riveroats Chasmanthium latifolia
7.	Trout Lily Erythronium rostratum	16.	American Redstart Setophaga ruticilla	25.	Yellow-fringed Orchid Platanthera ciliaris
В.	Bobcat Felis rufus	17.	Flowering Dogwood Cornus florida	26.	Yellowcheek Darter Etheostoma moorei
9.	White Oak	18.	Beauty Berry	27.	Cave Salamander

Flora and Fauna: The oaks and hickories of upland hardwood forests produce mast (acorns, nuts) that is a major food source for many animals. Understory trees, such as the flowering dogwood, take advantage of available sunlight by blooming before the canopy leafs out. Predators, such as the bobcat and the Cooper's hawk, are adapted to hunt by darting between the trees. On the forest floor, spring ephemerals (lasting only a few days) such as trillium, bloodroot, and trout lily, are also early bloomers, seeking out the light before it is blocked by overgrowing vegetation. Spring is also the time neotropical migrant birds, such as the American redstart and scarlet tanager arrive from their wintering grounds in Central and South America. Upland hardwood forests often have caves, springs, and clear-flowing streams. These clean, cool, rocky streams support game fish, such as the smallmouth bass, as well as rare darters. Ferns, orchids, water willow and riveroats thrive in these wetter areas. The caves are home to more rare species, such as the Ozark big-eared bat and cave salamander.

Callicarpa americana







Eurycea lucifuga