



Natural divisions are geographic regions of a larger entity like a state or continent.

A division contains similar landscapes, climates, and substrate features like bedrock and soils that support similar vegetation and wildlife over the division's area. Natural divisions help conservationists classify land for purposes like protecting natural diversity.

A more casual observer's appreciation of the natural world is enhanced by an awareness of the divisions, which help us recognize and understand different natural landscapes.

Landforms are critical features in defining natural divisions. Most of Illinois is flat, but rugged lands near entrenched rivers and in areas missed by Ice Age glaciers add distinctive diversity to Illinois' landscape and help define some divisions.

Differences in bedrock type, such as limestone and sandstone, are also important. Limestone gives rise to caves and supports distinctive alkaline-tolerant plants. Sandstone favors more acid-tolerant plants. Soil type is also important to natural division delineation. Soils developed in silty material called loess predominate over most of Illinois, but some loess particles are very small, giving rise to clay soils that restrict plant growth and support distinctive vegetation and wildlife. Soils developed from sand, gravel, and peat also occur in Illinois and help indicate natural divisions.

The predominant vegetation of a region also plays an important role in defining natural divisions. Vast prairielands, oak–hickory forests, beech–maple forests, cypress swamps, and tamarack bogs all help delineate some natural divisions.

The distribution of individual plant and animal species is important, too. Many southern lowland plants like baldcypress grow only in southern Illinois and up the Wabash River, while northern plants like white pine and paper birch occur on ridges and cliffs in northern Illinois.

Animals of limited range in Illinois that help define the natural divisions have low mobility and restricted habitat

requirements. Amphibians, reptiles, and fishes are likely division indicators. For example, western animals like the plains hognose snake survive well in the dry habitats of the Sand Areas Division but are excluded from surrounding divisions. Silt-tolerant fishes like the plains minnow and sturgeon chub live in the Mississippi River below the mouth of the muddy Missouri River and help separate this region into a separate division from the clearer upper Mississippi.

Illinois was one of the first states to have its natural divisions defined when botanist Arthur Vestal used this method to develop his "Preliminary Vegetation Map of Illinois" in 1931. This and other earlier works were expanded into a comprehensive delineation and description of the natural divisions of Illinois by myself and others in 1973.

In the last 24 years, Illinois' natural division classification has guided development of our state's nature preserve system. The Illinois Natural Areas Inventory and the Illinois Natural Areas Plan, both milestones in the preservation effort, used the natural divisions to classify recognized areas and prioritize them for preservation.

Fourteen natural divisions are recognized in Illinois. On the following pages I'll describe their unique characteristics and suggest public areas that showcase features of each division.

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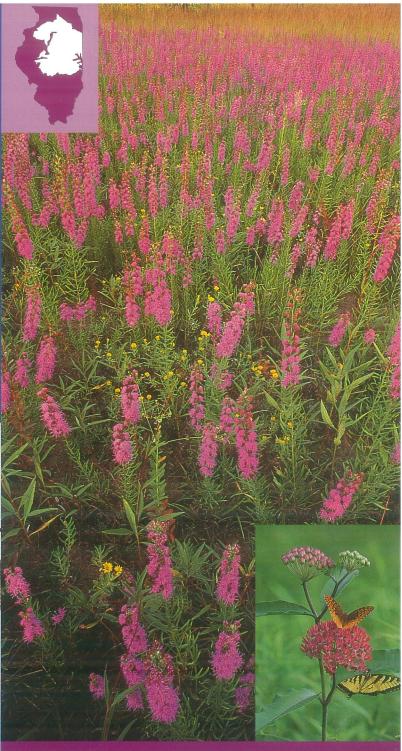
The Northeastern Morainal Division is a region of deep glacial deposits that are piled into high forested ridges with intervening low, wet areas and natural lakes. This diverse division also includes the bed of extinct glacial Lake Chicago and the shore environments along Lake Michigan.

Moraine Hills State Park near McHenry and the nearby Volo Bog Nature Preserve (see Vol. 5, No. 1 of *The Illinois Steward*) offer exceptional views of the diversity of lakes, bogs, marshes, and forests typical of the division. Moraine Hills is one of the few Illinois locations where relatively small "kettle

holes" left by melting ice blocks can be viewed.

Visit Illinois Beach State Park and Nature Preserve to view the Great Lakes beach and dunes environments. Walk the Dead River Trail to see prairie, oak savanna, dunes, and beach. This is one of Illinois' richest wildflower areas at any time during the growing season.





THE GRAND PRAIRIE DIVISION

The Grand Prairie Division is the largest of our natural divisions and occupies the flat terrain in central and northern Illinois. Prairie dominated the vegetation here. Forests were the exception and were often present only as individually named groves. Most of the prairie has been plowed and converted to cropland, but a vast example survives at Goose Lake Prairie State Park near Morris. August and September are ideal times to visit this prairie.

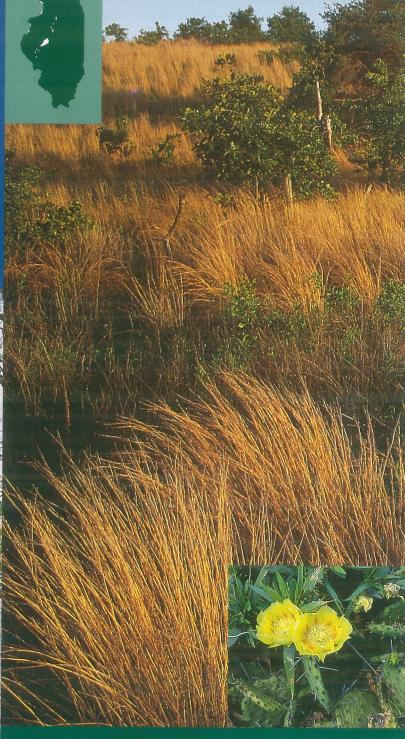
Funks Grove, southwest of Bloomington, is an outstanding example of a Grand Prairie forest. While largely privately owned, the grove is open to public visitation and is exceptional for its large trees and display of bluebell wildflowers in the spring.

THE UPPER MISSISSIPPI RIVER AND ILLINOIS RIVER BOTTOMLANDS DIVISION

The Upper Mississippi River and Illinois River Bottomlands Division includes these major rivers and their floodplains. Alluvial forests, prairies, rivers, and lakes make up the division's environments.

Good examples of these natural communities along the Illinois River can be seen at Marshall Conservation Area near Lacon and Anderson Lake Conservation Area in Fulton County. Along the Mississippi, visit Red's Landing in Calhoun County. Visits during the spring and fall bird migrations offer excellent wildlife viewing, especially for waterfowl.





THE ILLINOIS RIVER AND MISSISSIPPI RIVER SAND AREAS DIVISION

The Illinois River and Mississippi River Sand Areas Division consists of the major sand deposits along these rivers. Desert-like, dry sand prairie and dunes and scrubby oak forests are the dominant land-based communities. Ponds and moist prairies are also present.

Sand Prairie-Scrub Oak Nature Preserve east of Bath in Mason County is the best place to observe the Illinois River part of this division. Hike from the parking lot on the east side of the preserve. On the Mississippi, visit Big River State Forest near Oquawka during the cactus flowering in June or when blazing stars and sunflowers are at their peak in September.



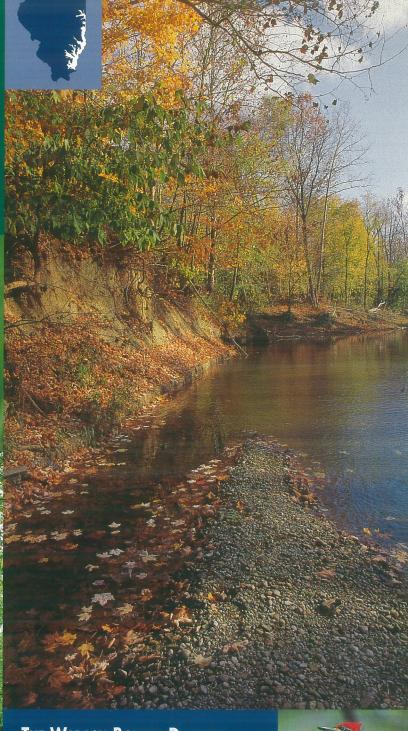
THE SOUTHERN TILL PLAIN DIVISION

The Southern Till Plain Division covers a large area of relatively flat terrain in south-central Illinois. It has a predominance of clay soils, which support a mixture of prairie and forest vegetation. Distinctive "flatwoods" forests dominated by post oak and pin oak with an understory that includes some prairie plants are an important feature of this division. Oak—hickory forests grow in the shallow ravines, with tallgrass prairie on some uplands.

The best views of these prairies are in the railroad prairies along Route 37 between Kinmundy and Mason. August and

September are best for prairie plant viewing. Forests of this division are visible at many state properties, such as Ramsey Lake State Park near Ramsey and Washington County Conservation Area near Nashville. The Posen Woods Nature Preserve at the latter area is a good example of flatwoods.





THE WABASH BORDER DIVISION

The Wabash Border Division is unique in supporting southern lowland vegetation. This division boasts sweet gum and swamp cottonwood trees in bottomlands along its major streams and eastern trees like beech and tulip trees in its upland forests.

Beall Woods Nature Preserve near

Mt.Carmel contains outstanding examples of these lowland forests, with giant oaks and a diversity of other trees. It also has beech and tulip trees in its uplands, as do Kickapoo State Park and Forest Glen County Preserve near Danville.

