

Natural Areas: Protection and Stewardship LIBERTYVILLE TOWNSHIP BOARD OF COMMISSIONERS Steven Byers

Illinois Nature Preserves Commission December 2013

PRESETTLEMENT VEGETATION OF LAKE COUNTY, ILLINOIS



a mosaic of landscapes --







Unknown traveler between Chicago and Madison (1835)

Illinois' original landscape was nearly irreversibly lost during the course of only 5 generations; and remains under threat today.





natural resources remain vulnerable to changing land uses that further fragment the landscape

THE BIODIVERSITY CHALLENGE

Landscape Linkages and Biodiversity

MISSION FOR THE POS

in him protected latitudes, Reported

Brogie Hilbsdowk

fragmentation is now considered by conservation biologists as the leading cause for local extinctions of plants and animals.



The Illinois Natural Areas Plan

To Preserve and Protect Our Heritage

ILLINOIS NATURAL AREAS INVENTORY

- the first inventory to focus on natural plant communities,

- statewide survey conducted 1976-1978,

- used a grading system (A-B-C-D),

- less than 7/100 of 1% of our original landscape survives







Many INAI sites survive in the NE Morainal Natural Division

 a land of gravel hills and wetlands that was far more difficult to "work" than the level prairies of central Illinois -





Liberty Prairie Nature Preserve



< than 1/100th of 1 % of our Illinois prairies survive

Oak Openings Nature Preserve



red-headed woodpecker



Chicago Wilderness

Green Infrastructure

The Green Infrastructure Vision represents a protected landscape totaling 1.8 million acres in 140 resource protection areas that implements the goals of the CW Biodiversity Recovery Plan.

CW – alliance of more than 300 Organizations pledged to support the region's biodiversity.



Chicago Wilderness GIV

1. Based upon input from local experts, not intended to be an acquisition map,

2. To identify areas with natural resource value and does provide recommendations for protection of land (including land protection by organizations such as Libertyville Township) on different spatial scales.



To Rollins Savanna

Grayslake

3.311 Acres Protected

Gurnee mond Marsh Nature Preserve – 157.6 acres

2

Miles

1.5



0

0.25

0.5

1

Trail Access Parking

Des Plaines River Trail



Lake County Current State of Land Preservation

Total Area of Lake County* ~ 294,361 acre Permanently Protected Area ~ 39,415 acre 13.39% Permanently Protected

Illinois Department of Natural Resources - 8,298 ac. County Forest Preserve & Conservation Districts - 27,113 Libertyville Township Open Space District - 1,525 ac. Privately Protected Land - 2,479 ac.





Liberty Prairie Reserve Master Plan

SUMMARY BROCHURE

Recommendations:

 Identify, expand and connect core habitats, building upon the existing Nature Preserves and natural habitats (250 acres of grassland),

- Support management/restoration,
- Preserve more open space,
- Transition agriculture to more sustainable practices,
- Improve public access,
- Establish a planning council

Grassland Birds





Eastern meadowlark, moderately sensitive to fragmentation, 60% likely to occur in 100 acre grassland. A bird that was highly sensitive to fragmentation is only 25% likely to occur there.

Reed Noss. 1987. Natural Areas Journal 7:2-13. Protecting natural areas in fragmented landscapes.

Fragmentation is the leading cause of local Extinctions of plants and animals --

Recommendations:

- 1. Make the islands bigger,
- 2. Provide compatible buffers,
- 3. Maintain/create landscape linkages.



Bull Creek–Bull's Brook Watershed-Based Plan

A Strategy for Protecting and Restoring the Watershed



Bulls Creek-Bull's Brook Watershed Goals

A.	Protect and restore natural resources
B.	Improve water quality
C.	Reduce flood damage
D.	Enhance and restore stream health
E.	Guide new development to benefit watershed goals
F.	Preserve green infrastructure
G.	Enhance education and stewardship
H.	Improve watershed coordination and collaboration



Executive Summary August 2008





The Illinois Wildlife Action Plan provides a framework and set of goals for protection and stewardship of our natural resources. The plan supports those species of wildlife in Illinois that are "*in greatest need of conservation*".

Several of the recommendations for establishment of core blocks of habitat at Liberty Prairie Reserve support several of the goals/action items identified in the plan.



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The Commission worked closely with Libertyville Township Board and your staff on a trail realignment at Liberty Prairie that will accommodate more trail users and will have less impact upon natural resources.

ILLINOIS NATURE PRESERVES COMMISSION



Mission is to provide an enduring resource of natural areas...for the citizens of Illinois... through a system of Nature Preserves