



Illinois the Prairie State







Wooded Habitat Types

Savanna

 A grassland (prairie) with scattered trees. Trees are characteristically oaks, well spaced or in clusters. Fire dependent. Approximately 10-60% canopy cover.

Woodland

 An open forest with a vigorous turf of grasses and flowers throughout the growing season. Fire dependent. Many trees have spreading lower limbs. Enough light for oak regeneration. Approximately 60-80% canopy cover.

Forest

 An oak forest is intermediate between oak woodland and maple forest. Maple forest is fire intolerant. Most trunks have few lower limbs. Shade tolerant species of understory trees and shrubs present. Herbs are mostly spring ephemerals. 80-100% canopy cover.

Prairie-Forest Continuum

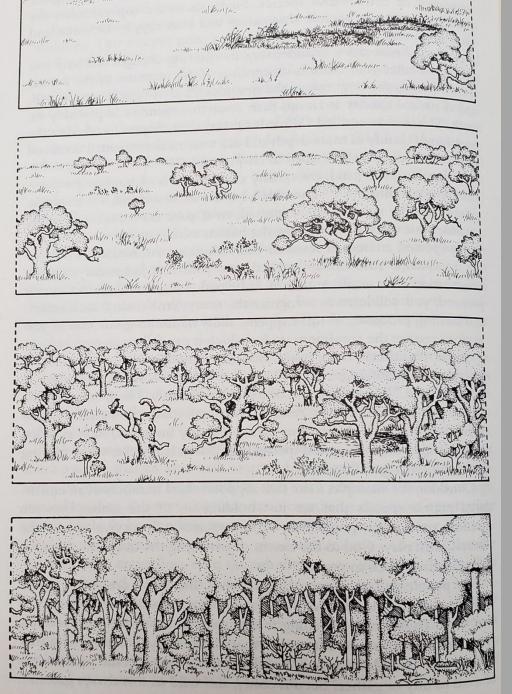
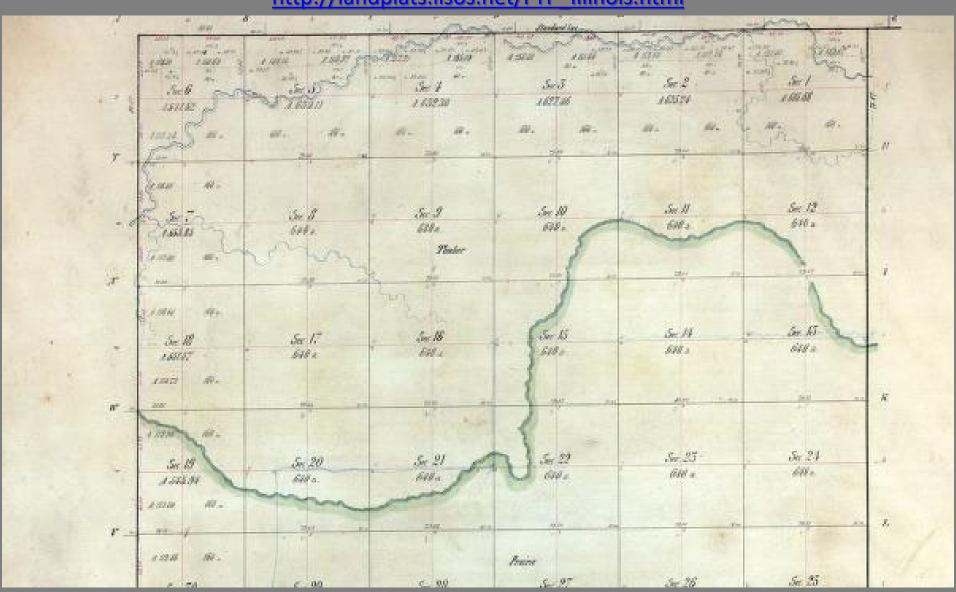


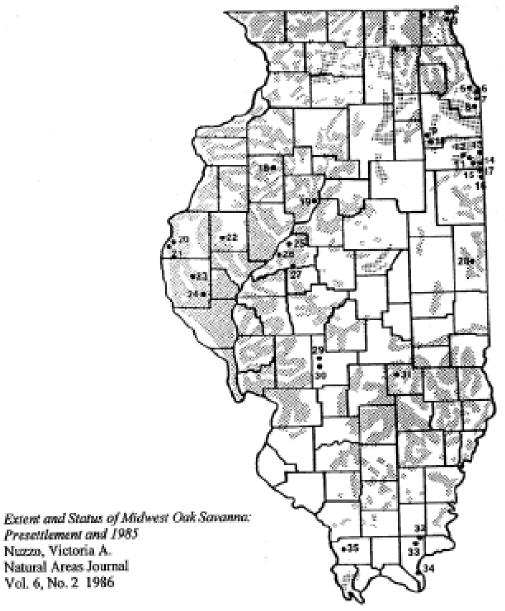
Figure 4.1. Prairie-forest continuum.

Illinois Historic Land Plat Surveys

http://landplats.ilsos.net/FTP Illinois.html



Potential Presettlement Oak Savanna Region in Illinois



Adapted From: Fehrenbecher, et al. (1984)

Herson (1981) Kilibura (1959) Moren (1978)

Remnant Trees















Wetland Savanna/Woodland Complex in Boone County



Remnant Bur Oaks, Little Bluestem and Eastern Red Cedar





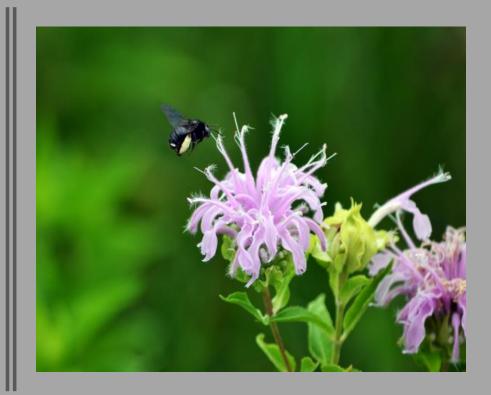
Remnant Plants Gaura biennis





Big bluestem





Little Bluestem and Wild Bergamot





Joe Pye Weed and White Oak





Figwort (Snapdragon family)

Illinois Soil Orders

- Two main soil orders
 - Mollisols Prairies
 - Alfisols-Timber
 - Integrade soils

AKA: Savannas

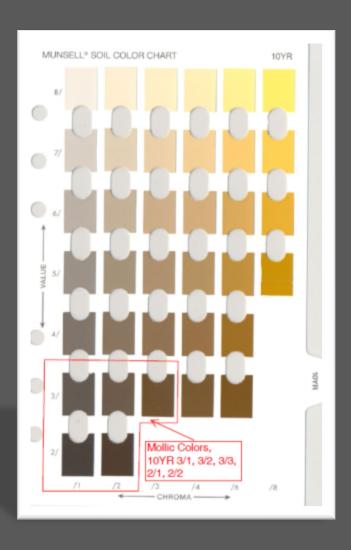
Mollisol



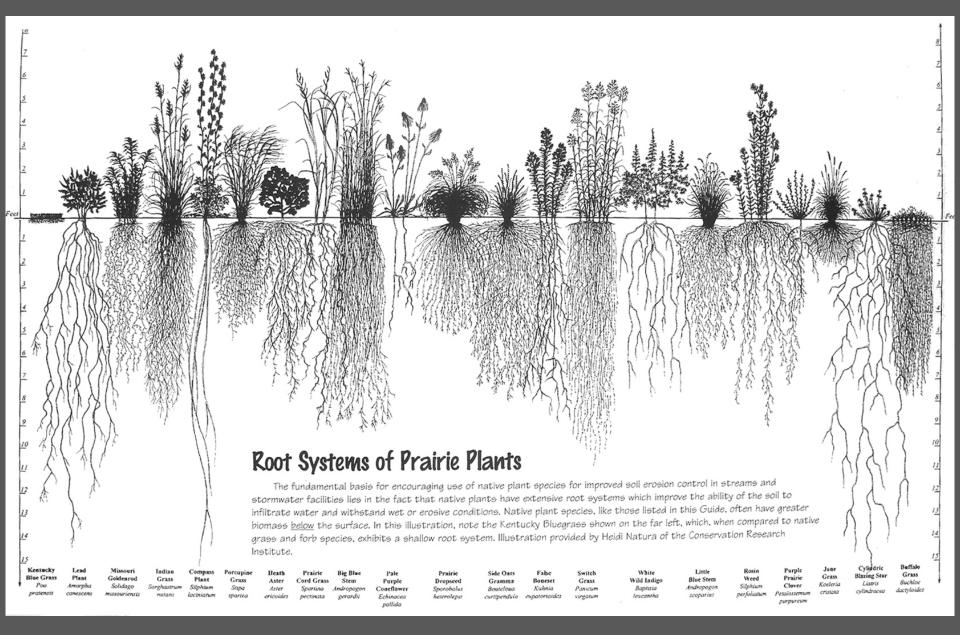
Alfisol



Munsell Soil Color Chart



10+ inches of the Mollic colors = Prairie (Mollisols)



Organic matter accumulation in the soil is due to the prairie plant roots growing and dying off each year. Slowly building organic matter over the eons.

Driftless Area (Unglaciated)





Official Soil Series Description (OSD) Site:

http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/

Soil map units and associated Orders:

403-Elizabeth, 10+" mollic surface, shallow to bedrock (7-20")

417-Derinda, Alfisol, Thin **mollic** A horizon-uncultivated, BE or E horizon

547-Eleroy, Alfisol, <5" mollic surface, E horizon

755-Lamoille, Alfisol, 4" **mollic** surface, E & BE horizons

785-LaCrescent, 10" mollic surface

905F-Newglarus/Lamoille,

Newglarus-Alfisol, 9" or less mollic surface, BE or E horizon

928D2-Newglarus/Palsgrove, Alfisol, uncultivated mollic surface, can

have a BE or E horizon or not

Web Soil Survey-internet or smart phone app for your soils information

http://websoilsurvey.nrcs.usda.gov/

Check out the soil series profile description from the OSD for color and depth of the surface layer.









Gooseberry Native Shrub

Indicator of grazed woodlands
Thorny stems cattle will not eat, goats will!





Osage Orange, Maclura pomifera

Native to Arkansas, not Illinois Indicator of grazed woodland. Girdle with 2 cuts to ensure the cambium has been severed Very dense wood



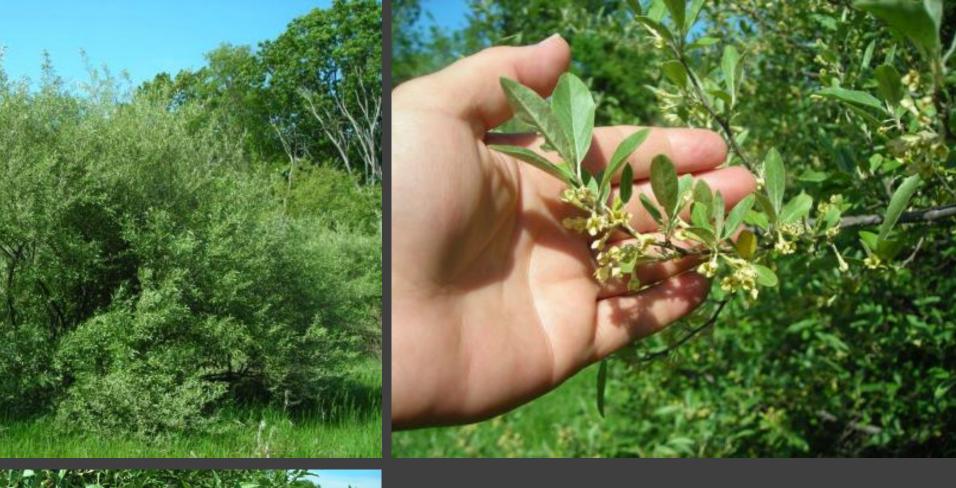






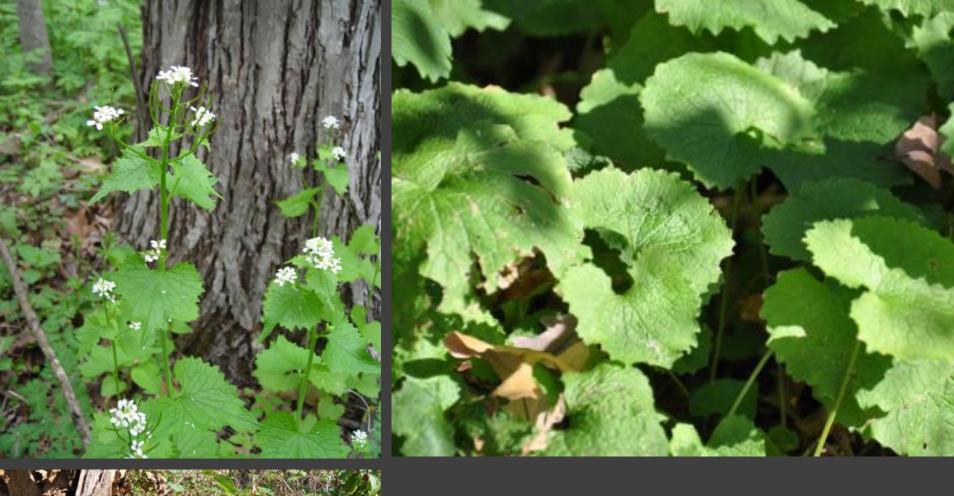
Invasive Species Bush honeysuckle

Foliage stays green late in to fall with red berries, easy to identify





Autumn Olive





Garlic Mustard

Methods to Improve Woodlands

- Invasive & undesirable species control
 - Woody removal
 - Mechanical, hand cutting, herbicide
 - Herbaceous
 - Herbicide, hand pulling
 - Goats!
- Timber stand improvement or crop tree release to allow sunlight so trees don't self prune
- Prescribed Burning

Summary

- Remnant vegetation
- Determine soil type
 - ➤ Mollisol (Prairie) >3 trees/ac
 - > Alfisol
 - Savanna (10-60% canopy cover)
 - > Woodland (60-80% canopy cover)
 - > Forest (80-100% canopy cover)
- Decide how you want to manage your property

Make a plan of the steps required to reach your land management goal



Photos courtesy of

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&

Paul Searl, NRCS District Conservationist



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