Village of Riverwoods

Woodland Stewardship Contractor Certification Program

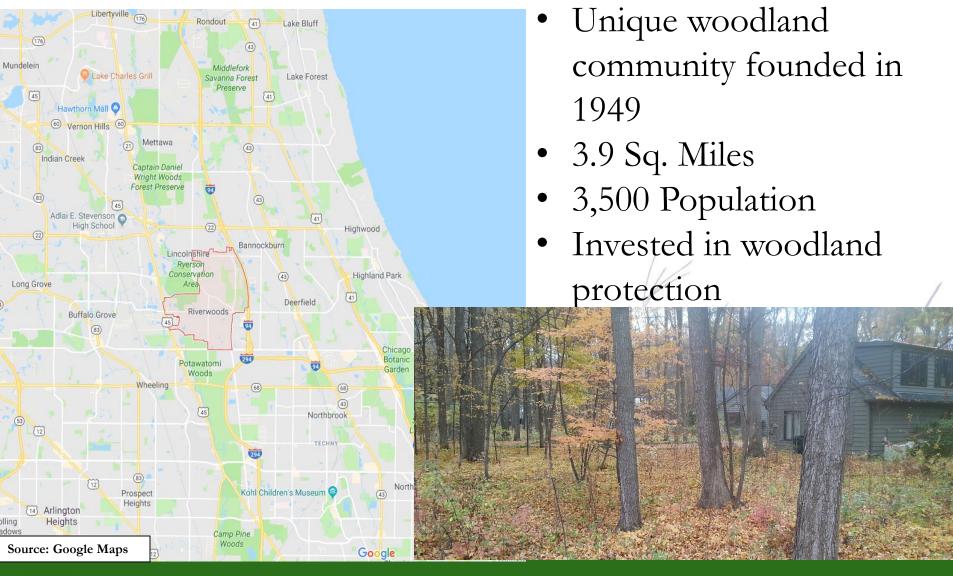
November 7, 2018

By: Steve Zimmerman M.S. (AES Senior Ecologist & Certified Arborist)

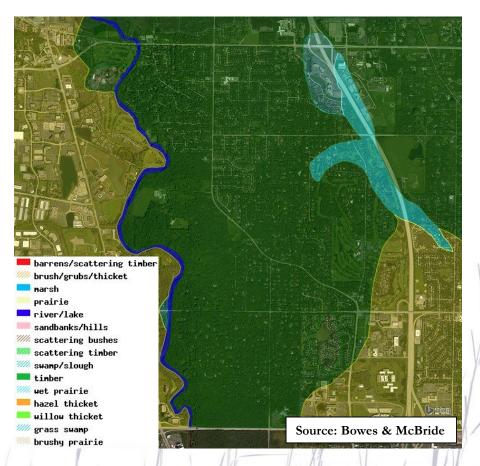




About the Village of Riverwoods



Riverwoods Prior to European Settlement (1830's)





The land east of the Des Plaines River was woodland; west of Des Plaines was Prairie.



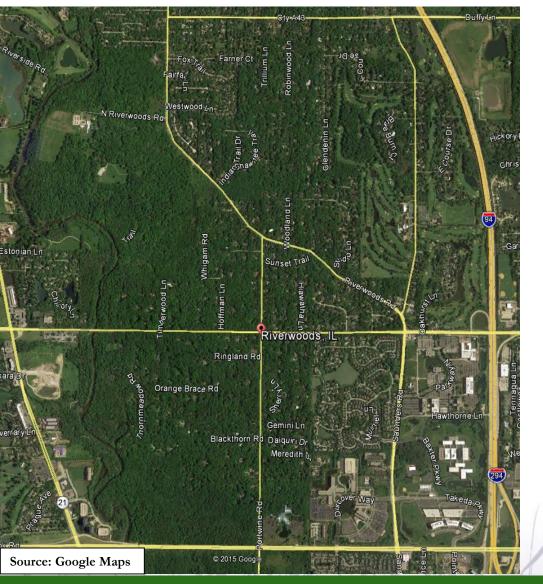
Riverwoods in the 1930's



By the 1930s farming impacted many woodland areas.

Notice how "open" the remaining woodlands are.

Riverwoods Today

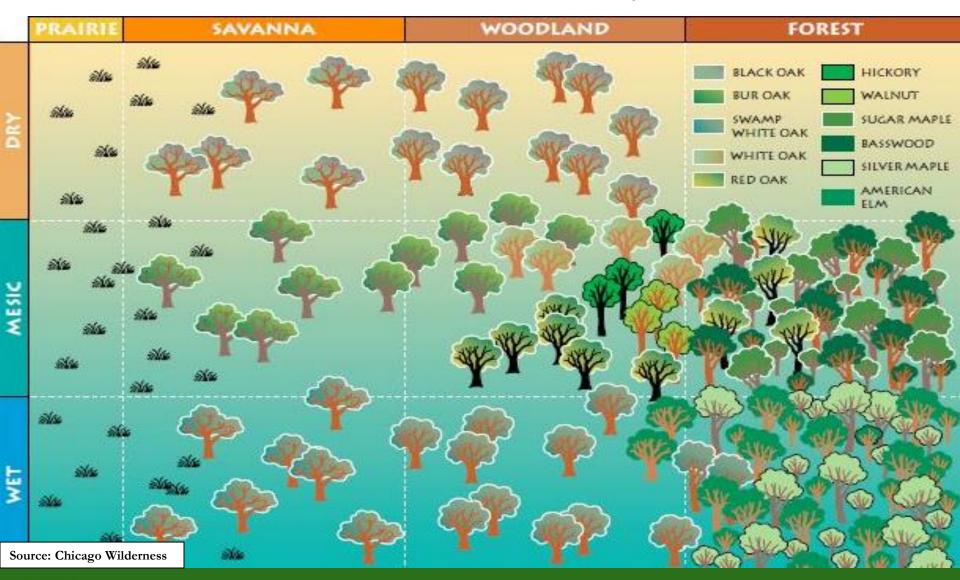


Note how dense the woodland areas have become.

Shade tolerant species such as sugar maple and basswood are beginning to dominate the historic oak woodlands.



Natural Plant Community Profile







AES's vision is to bring the science of ecology to all land use decisions

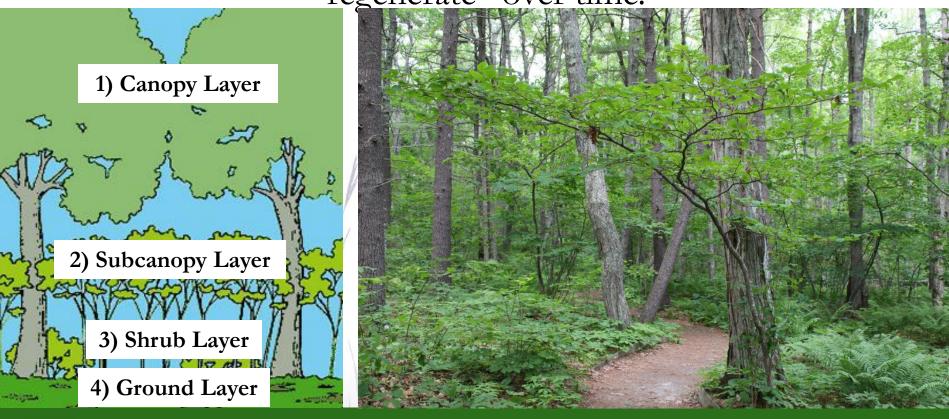


What is a Woodland?

Up to four layers: 1) Canopy, 2) Subcanopy, 3) Shrub, and 4) Ground.

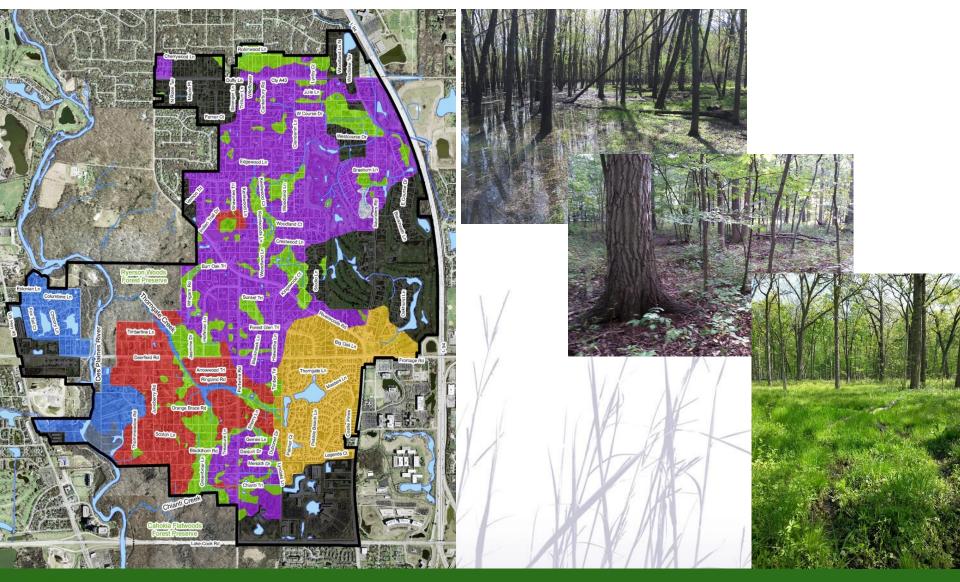
* Canopy & ground layers must be present for the woodland to

"regenerate" over time.





Woodland Communities in Riverwoods



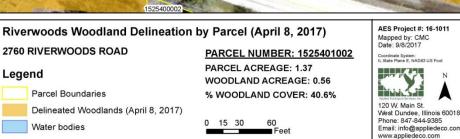


Riverwoods Woodland Delineation Maps

AES delineated the woodland boundary on each parcel using multi-spectral aerial imaging followed by site inspections.

* Woodland must have at least a canopy of native native trees & unmaintained ground layer.







What will Happen without Woodland Stewarship?









The Woodlands are being Altered











Tree & Woodland Protection Ordinance

- 2018: Tree & Woodland Ords. were updated and combined.
- Woodland Ord. limits removal of "Protected Woodland" to no more than 20% based on 2017 Woodland Delineation Maps.
- "Regulated Tree": at least 1.5" dia. & ≥6 feet tall.
- All trees are "Regulated" but only "Desirable Native Trees" & are protected as well as 80% of their Critical Root Zones.
- Removal of "Desirable Native Trees" requires mitigation:
 - fee based on diameter of desirable tree(s)
 - ≥\$5K -option to implement an "Ecological Mitigation Plan"



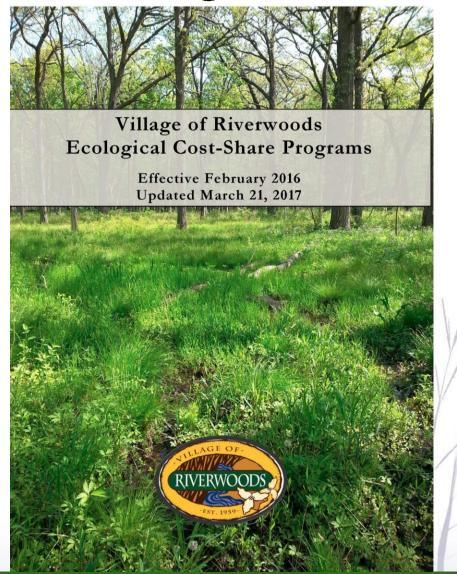
Ecological Cost Share Programs

Program that encourages residents to be good stewards by improving the ecological health of woodlands.





Ecological Cost Share Report & Map









- Area (10 acre) eligible for the Canopy & Subcanopy Tree Thinning Program to remove all sugar maple and basswood les than 15 in thes in diameter. Area is also eligible for the Garlic Mustard Removal Program (light density infestation).
- Area (0.5 acre) eligible for the Canopy & Subcanopy Tree Thinning Program to remove all silver maple and sugar maple and basswood less than 15 inches in diameter. Area is also eligible for the Invasive Shrub Removal Program to remove all buddithorn and multi-flora rose (light density infestation).
- Area (0.1 acre) eligible for the Native Seeding & Planting Program (following removal of evergreen trees) using the Mesic-Dry Mesc Woodland Seed Mixture. Area is also eligible for the Native Tree & Shrub Planting Program to using Sub-canopy Trees/Shrubs and Understory Shrubs from the Mesic-Dry Mesic Woodland & Savana laits.
- **All blue and orange areas (1.5 acres) are eligible for the Prescribed Burn Program.

**See attachments for each eligible program requirements

Resident Info

AES F

AES Project Number 15-0330 Created by SRZ Date Oct 11, 2016

Address: 2880 Orange Brace Phone: 847-204-7757 E-mail: pattikalal@aol.com

Name: Kalal

04-7757 kalal@aol.com

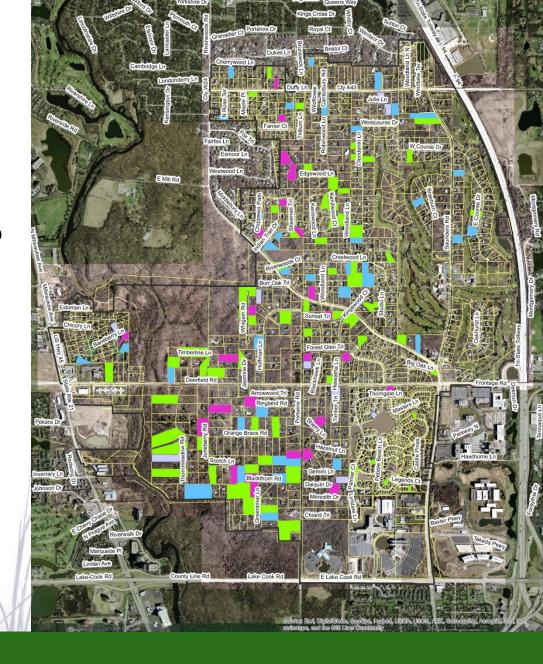
ERWOODS !!

Scale Exhibit Title
Ecological
Not to Scale Cost-Share

Ecological Cost-Share Program Eligibility Map



2015-2017: nearly 200 residents had an ecological consultation & approx. 50% of these residents applied for a cost share program.





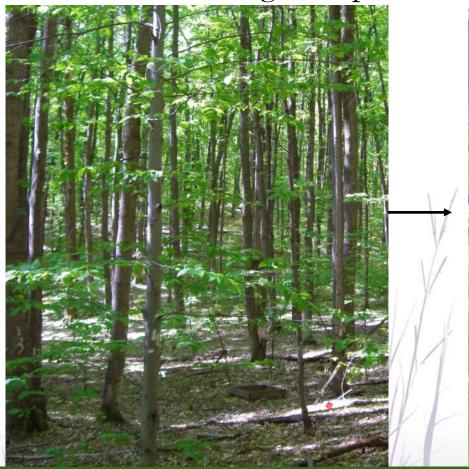
Village's Contractor Certification Program

- •Attendance at workshop was required to become "Certified" to work under the Village's Ecological Cost Share Programs.
- Explain why & how Riverwoods is protecting woodlands.
- Orient contractors to Village's Tree/Woodland Ordinance.
- Orient contractors to Village's Ecological Cost Share Programs.
- Process resident & contractor go through when applying.
- Contractor implementation of each Cost Share Program.



Canopy & Subcanopy Tree Thinning Program

Goal is to provide for select <u>removal</u> of canopy & subcanopy trees such as elm, sugar maple, and basswood to reduce shading.







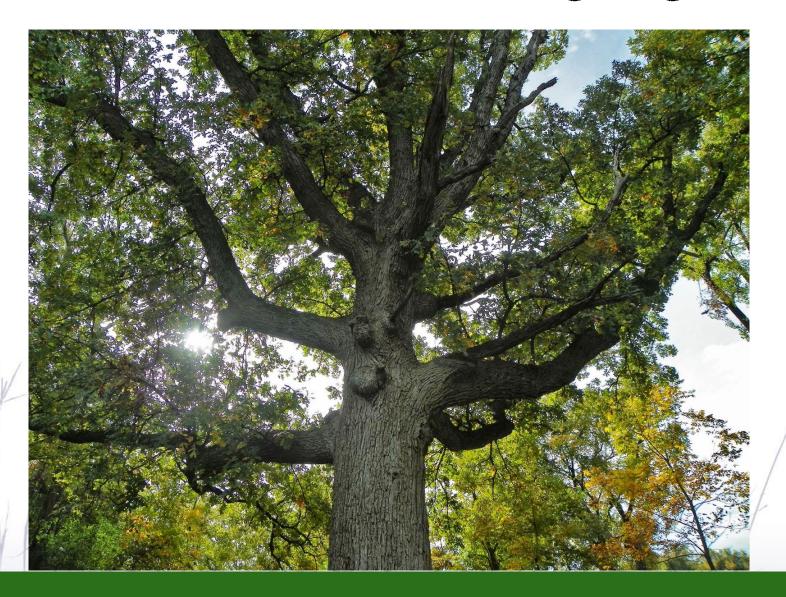
Invasive Shrub & Garlic Mustard Removal Programs

Goal is to remove invasive shrubs & garlic mustard to reduce shading and competition with natives.





Native Tree & Shrub Planting Program





Native Seeding Program

Goal is to establish or diversify native ground layer plants.





Rain Garden Program

Goal is to capture rainwater from downspouts/sumps





Prescribed Burn Program

Goal is to provide residents with a long term management tool to maintain woodland health.



Ecological Cost Share Process

Step 1: Resident conducts Ecological Consultation w/ Village Ecologist & receives map/report.

Step 2: Resident meets w/ "Certified" contractor then submits app./proposal to Village.

Step 3: Village Ecologist reviews app./proposal, issues permit, then "Certified" contractor performs work.

Step 4: Village Ecologist inspects & approves work & resident is reimbursed.

ECOLOGICAL COST SHARE PROGRAMS

In the late 1990s, the Village of Riverwoods began encouraging residents to be good stewards of their properties through ecological cost-share programs. The goal is to improve property values by caring for each of our natural vegetation communities. In 2016, the Village updated these programs to make them more systematic and easier to understand and implement. Additional updates were made on March 21, 2017. There is a program available to suit every property type.



Ecological Consultation

An Ecological Consultation is required as a gateway first step to apply for the Village Ecological Cost-Share Programs. Residents get the opportunity to spend an hour with the Village Ecologist on their property to obtain an in-depth ecological assessment and determination of which Cost-Share Programs the resident is eligible for. Residents learn what will grow best on their property and how to care for it. A Program Eligibility Map/Report is provided to the resident which summarizes the consultation, outlines all Cost Share Programs eligible to the resident, and how to implement the work. Next, the resident hires a qualified contractor to implement the work and gets reimbursed by the Village when the work is complete. All programs are a 50/50 cost share with a Village reimbursement maximum of \$2,000 to \$4,000, depending on the program.

- Call the Village's Executive Assistant at 847-945-3990 to request a consult with the Village Ecologist.
- Ecological Consultations can be conducted year round but are best done from April through November.
- The Ecological Consultation cost to the resident is \$75.



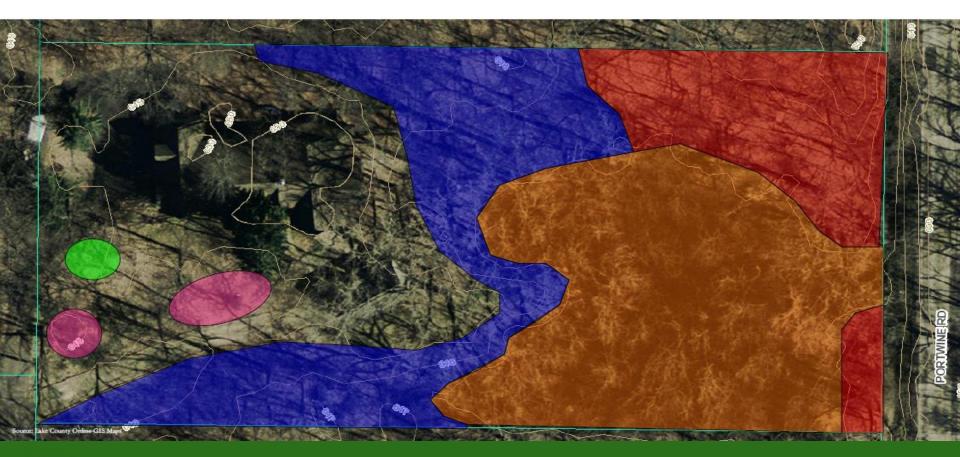
Funds available for each program will be re-evaluated by the Board of Trustees on an annual basis.

Help make our programs a success and apply today!



What is an Ecological Mitigation Plan?

Plan to improve health of existing woodlands using ecological management strategies similar to the Cost Share Programs.









APPLIED ECOLOGICAL SERVICES, INC.