



Lumberjack Grant Application

PROJECT TITLE: Lincoln County Garlic Mustard Treatment

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| Submitted by (name): | Dean Bowe |
| Organization: | Lincoln County Forestry, Land and Parks Dept. |
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| Counties: | |

Mission Statement: *Lumberjack Resource Conservation & Development Council, Inc., a multi-county, nonprofit in Northeastern WI, strives to enhance area natural resources, promote a higher standard of living and improve the quality of life for area citizens by fostering partnerships between public and private sectors and strategically investing in area natural resources.*

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| <p>SUMMARY: Review the Lumberjack Mission Statement above. How does your project align with Lumberjack’s mission? Be specific. The more alignment points, the better your project is viewed.</p> <p>Answer: Invasive species have become a huge issue across the country and are outcompeting indigenous species for space in our forests and fields.</p> <p>In 2007, Garlic Mustard (<i>Alliaria petiolate</i>) was first located in the Underdown Block of the Lincoln County Forest and on adjacent private property. Garlic mustard is a biennial plant meaning it has a two-year life cycle. The first year the plant develops a cluster of leaves, which remain green throughout the winter and help to identify Garlic mustard in the spring before other plants green up. Plants can produce more than 100 seeds, which can remain viable in the soil for more than 8 years. Garlic mustard can develop dense stands, outcompeting native species.</p> <p>A team of DNR and County staff was assembled to determine the extent of the infestation, map its location and develop a control plan. The Garlic mustard infestation was found to be quite extensive within approximately 60 acres of the county forest. Lincoln County spent approximately \$10,000 on purchasing equipment, herbicide, signage, educational materials for recreational user groups, gates and staff time to treat the infested areas during May and June of 2007. In 2007 and 2010, DNR funded Sustainable Forestry Grants were awarded to Lincoln County to aid in paying for herbicide, equipment and hiring a contractor to treat a specific area of county forest. Since those grants ran out, Lincoln County has absorbed the cost of herbicide treatment with county staff and DNR County Forest Time Standards assistance.</p> <p>Over the years, new infestations have been found across the county forest. Even with annual treatments, most known sites have continued to expand. Garlic mustard is now found in many locations around the county, including along ATV, biking, horseback and hiking trails. This year, invasive species treatment required approximately 500 hours of county forest staff time during the prime time for regular forestry work, primarily timber sale establishment. Not only has this caused our staff to perform other forestry work under less favorable conditions, we are also not getting all infested areas treated before they start producing seed. Lincoln County forestlands are third party certified by both the Sustainable Forestry Initiative and Forest Stewardship Council. Not treating these infested sites could potentially put Lincoln</p> |
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County's certified status at risk. These county lands supply certified forest products to local markets maintaining good paying jobs for many local citizens.

Spot spray treatment will reduce non-target plant mortality and allow tree regeneration to take place. Keeping these species from dominating the understory in our forest is critical to the long-term health and economic viability of our forest. Reducing the density and slowing the spread of garlic mustard will help native plant species remain throughout the forest. We work with our recreational groups to educate users and to identify new infestations and re-route trails if possible. The Lincoln County Forestry Department is committed to controlling invasive exotic plants on the Lincoln County Forest. These grant dollars will help enable us to meet this goal.

OBJECTIVES: What problems, concerns or opportunities will this project address? You will be asked to show how your objectives were met when you present your follow-up presentation to the Council.

Answer: The biggest problem this project will address is treating Garlic mustard in a timely manner. Lincoln County is at a point where we do not have enough time to get all of the areas treated before plants start to go to seed. Our concern with this is that there will be more viable seed produced, replenishing the seedbank or possibly be moved to a new area.

FORMULATION & EVALUATION: Why is this project the best way to address the issues described above? How will the outcome be evaluated? Be specific – outcomes that can be measured are viewed more favorably.

Answer: Treating garlic mustard correctly requires a narrow time window from when plants become visible in spring to before they flower to produce seed. Hiring a contractor to perform treatments during that narrow window will result in fewer seeds being produced and better long term control. Hand pulling and disposing of the plants is much more time consuming and labor intensive especially with the number of acres infested. Sites will be evaluated for plant mortality within 30 days of treatment.

ASSISTANCE NEEDED: Why is assistance needed from Lumberjack? Who within your organization will run the project? Describe the assistance you are receiving from other partners. Include Letters of Support as outlined in Lumberjack's Granting Policy.

Answer: Assistance is needed due to the tight budgets that Lincoln County is facing. Time and money we save on this project can free up staff to work on other necessary forestry related projects. Also, having a contract crew treat garlic mustard will allow us to get more plants treated before they are able to produce seed. In the end, just having more people spraying during the correct time frame will improve control. The County Forest Administrator and county foresters will oversee the project. We are receiving assistance from local DNR staff in the form of time standard hours. However, spring is fire season so the amount of time they have available to help is limited. The recreation groups have been keeping an eye out for new infestations and let us know if they become aware of any.

PROJECT OUTLINE & TIMETABLE: List the project steps and expected completion dates. Could there be any possible roadblocks? If so, list them here.

Answer: The timetable for this project is if/when being awarded grant dollars we would advertise for bids to spray Garlic Mustard in a designated area of the county forest. The winning contractor would be required to spot-treat garlic mustard during the spring of 2023 after plants become readily visible and prior to flowering. A mortality rate of 75% within 30 days of treatment will be required. Potential roadblocks could be a lack of contractors to do the spraying, a late spring would shorten the window of time to spray.

BUDGET: Complete the attached Budget Form. Remember the 50% match value requirement with 15% of the match being cash. List each match donor in the 'Match' column and submit a corresponding Letter of Support with specific value of in-kind/services or cash for the project for which funds are being asked. Note: This form is available in excel online at: <https://lumberjackrcd.org/projects>

LUMBERJACK BUDGET FORM



Project Name: Lincoln County Garlic Mustard Treatment

Starting Project Date

2/1/2023

Ending Project Date **1**

8/31/2023

| Income (SPECIFY) | Cash | Match (Cash & In-Kind) 2 | Total |
|---|-------------|---------------------------------|--------------|
| YOUR Request of Lumberjack RC&D | \$ 5,000.00 | | \$ 5,000.00 |
| Lincoln County In-Kind match | | \$ 4,250.00 | \$ 4,250.00 |
| Lincoln County Cash | | \$ 750.00 | \$ 750.00 |
| Other Revenue Source (list in Match Column) | | \$ - | |
| Other Revenue Source (list in Match Column) | | \$ - | \$ - |
| Other Revenue Source (list in Match Column) | | \$ - | \$ - |
| Other Revenue Source (list in Match Column) | | \$ - | \$ - |
| Other Revenue Source (list in Match Column) | | \$ - | \$ - |
| Other Revenue Source (list in Match Column) | | \$ - | \$ - |
| Total Income | \$ 5,000.00 | \$ 5,000.00 | \$ 10,000.00 |

Percent of Match=Match Total/Lumberjack Request 100%

LJ Percent of Total = YOUR LJ Request/Total Expenses 50%

| General Expenses (SPECIFY & include Match expenses) | | |
|---|----|-----------|
| Herbicide Treatment Contract | \$ | 6,000.00 |
| In Kind Herbicide Treatment | \$ | 4,000.00 |
| Expense Item | \$ | - |
| Expense Item | \$ | - |
| Expense Item | \$ | - |
| Expense Item | \$ | - |
| Expense Item | \$ | - |
| Expense Item | \$ | - |
| Total Expenses | \$ | 10,000.00 |
| NET 4 | \$ | - |

- 1** Lumberjack Project funds are available for one year from the date of the approval notice
- 2** Match Value must equal at least 50% of the Lumberjack Request and 15% must be in cash
Volunteer Services=\$15/hour & Professional Services=current hourly wage
- 3** A Letter of Support is required for all match partners listed above and must include a description and value of service.
- 4** Explain a **NET** balance other than Zero (\$0.00) in the box below:



LINCOLN COUNTY
FORESTRY, LAND & PARKS DEPARTMENT
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Merrill, WI 54452
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Fax: 715-539-8091

November 28, 2022

Lumberjack Resource Conservation & Development Council
315 S Oneida Ave #206
Rhineland, WI 54501

Council Members

Lincoln County Forestry, Land and Parks Department is pledging support to match 50% of grant funding in cash and in-kind services. The Forestry Department will provide a minimum of \$750.00 cash and \$4,250.00 of in-kind labor at \$42.00/hour for 102 hours of forester time spraying garlic mustard. The Forestry Department has been battling garlic mustard since 2007 and already spends thousands of dollars and hundreds of hours annually on controlling garlic mustard. We are committed to containing and controlling the spread of garlic mustard to the best of our ability. Lumberjack RC&D's financial assistance will help ease some of the financial burden of this necessary activity.

Thanks you for your cooperation.

A handwritten signature in cursive script, appearing to read "Dean Bowe".

Dean Bowe
Lincoln County Forest Administrator

Enc.