

2020 Purple Loosestrife Inventory  
for  
Flambeau Pixley Hydroelectric Project  
FERC Project #2395  
Flambeau Hydro, LLC  
Price County, Wisconsin

Submitted by:



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## Summary of Purple Loosestrife Inventory for Flambeau Pixley Hydroelectric Project, FERC #2395

On August 12, 2020, White Water Associates, Inc. performed an inventory of purple loosestrife at the Flambeau Pixley Project. The method of inventory approved and modified by a Federal Energy Regulatory Commission (FERC) Order (June 18, 2003) was defined as follows:

While purple loosestrife is blooming in mid-July to early August, the inventory should be conducted using a boat to survey the impoundment above the dam within the Project Boundary and on foot or by boat below the dam within the Project Boundary. County wetland maps may be used to determine other areas where Purple Loosestrife could be found on lands owned by Flambeau Hydro, LLC (FHLLC) within the Project Boundary. Lands owned by FHLLC within the Project Boundary will be surveyed on foot. A pair of binoculars should be used to search for the purple flowered spikes of the plant. When plants are located, the person(s) inventorying should get close enough to make a positive identification without disturbing the plants or the immediate area around the plants as this could cause them to spread. A GPS will be used to establish a GPS coordinate for the location of the plants. If it is not possible to get close enough to establish an accurate location, an approximate location will be established with reference to an established GPS coordinate. The plants should be inventoried by marking and numbering the location on a project map along with notes approximating size of plants, stand area, percent cover, stem density, plant density, and location with reference to established GPS coordinates. Photos and/or videotape will be taken of the largest occurrences.

### 2020 Observations

The Flambeau Lower Project boundary was divided into three different areas; *the impoundment* (from HWY 13 bridge in Park Falls to the dam), *FHLLC-owned property within the project boundary* (FHLLC-owned property adjacent to the dam and powerhouse), and *the tailrace* (from the dam and powerhouse to approximately 500 feet downstream of the dam).

*The impoundment* was surveyed by boat and one purple loosestrife plant was observed.

*The FHLLC-owned property within the project boundary* was surveyed on foot and no purple loosestrife plants were observed.

*The tailrace* was surveyed by boat and no purple loosestrife plants were observed.

Appendix A provides a map of the purple loosestrife location. Appendix B is a table. Appendix C is scans of field data sheets. Appendix D is a photo of the purple loosestrife.

# **Appendix A**

## **Maps**



Map 1. Locations of purple loosestrife at Flambeau Pixley observed in 2020.

# **Appendix B**

## **Tables**

<b>Table 1. GPS points for purple loosestrife inventory at Flambeau Pixley, FERC#2395.</b>					
<i>GPS Point</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Plant Height</i>	<i>Stand Area</i>	<i>Comments</i>
FLPX01	45.90955	-90.45355	3'	1'x1'	2020-first observed. Plant was removed.

# **Appendix C**

## **Scans of Datasheets**

GPS 3

### Purple Loosestrife Survey

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Date 8-12-200 Conducted By Angie Shu, Sean Coran  
 HWL 144.25 TWL 117.9 CFS 1217.5 Equipment Used: shovel, binocular, clipper, garbage bags  
 Air Temp: 79° Wind Speed: SE 1 Barometer: 30.07 Sky Conditions: Clear

Time Survey Started 10:13 Time Survey Ended 12:25 Boat  (14ft) or Canoe) and/or Foot  
 Latitude Start BL Longitude End BL

Location of Survey Area: Tailrace  Bypass Reach  Impoundment  FHLLC Property

Description of Location \_\_\_\_\_

Historic Info: \_\_\_\_\_

Purple Loosestrife Found:  Yes or No

N45.90955  
 W940.15355  
 Pixley 01

Information				
Site				
Time	<u>11:21</u>			
Photo ID	<u>454</u>			
Location				
Single or Multi-stem	<u>Multi</u>			
# of Plants	<u>1</u>			
Acreage est.				
Stand Area Density	<u>1x1</u>			
Size Colony S=0-5, M=6-50, L=>50~	<u>S</u>			
Plant Height ~ Ft	<u>3'</u>			
Flowering %	<u>100%</u>			
Beetle Feeding?				
Plant Vigor (Very poor to good)	<u>good</u>			
Plant Removed (explain)	<u>yes</u>			

Information				
Site				
Time				
Photo ID				
Location				
Single or Multi-stem				
# of Plants				
Acreage est.				
Stand Area Density				
Size Colony S=0-5, M=6-50, L=>50~				
Plant Height ~ Ft				
Flowering %				
Beetle Feeding?				
Plant Vigor (Very poor to good)				
Plant Removed (explain)				

Other Species Observed:

Painted turtle, Loon and Loonchick, Eagle



# Purple Loosestrife Survey

P. Xley

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Date 8-12-20 Conducted By A. Shue S. Colgan

HWL 1448.25 TWL 1427.9 CFS 127.5 Equipment Used: Binoculars, GPS Camera

Air Temp: 81 °F Wind Speed: 57 mph Barometer: 30.06 Sky Conditions: 25% Cloud

Time Survey Started 12:39 Time Survey Ended 12:43 Boat (14ft or Canoe) and/or  Foot

Latitude Start None Longitude End None

Location of Survey Area: Tailrace  Bypass Reach  Impoundment  FHLLC Property

Description of Location \_\_\_\_\_

Historic Info: \_\_\_\_\_

Purple Loosestrife Found: Yes or No

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Other Species Observed:

\_\_\_\_\_

# **Appendix D**

## **Photos**



**Photo 1. Purple loosestrife growing on the edge of Flambeau Pixley.**