



# GREAT LAKES WORM WATCH DATA SHEET

Use this form when documenting the presence or absence of earthworms, (may or may not use a formal plot) in your site or location.

**Section 1 (Essential Data)** – This section of the data sheet is a list of essential variables that **must** be filled in before you submit and send you samples to GLWW. Section 2 is optional and contains additional sections for habitat information.

**Checklist** – use the check list below to ensure you have included all essential data when you send in your sample.

- General Site Information
- Geographical Information
- Earthworms found in site?
- Sampling method(s) used
- Area sampled
- Send this form to GLWW; (optional – also preserved earthworms)

## 1. General Site & Sampling Information

Your Site Name:		Date of Sampling:	
Address:			
Phone:		Email:	
Observer(s) Name(s):			

## 2. Geographic Location of the habitat being sampled:

Method used to determine location (circle one):	Hand Held GPS Unit	;	iTouchMap (online)
Latitude: N	_____°	Longitude: W -	_____°
Latitude & Longitude need to be given in Decimal Degrees (e.g. N 46.78667, W -92.10048) if your GPS is not set in this format you will need to change its settings. For help see “An Introduction to Locating Sample Points” on the GLWW website < <a href="http://www.nrri.umn.edu/worms/team/Intro-LocatingPoints.html">http://www.nrri.umn.edu/worms/team/Intro-LocatingPoints.html</a> >			
Accuracy of your location coordinate, indicated by your GPS unit (not relevant for iTouchMap): _____ meters			
What was the “Datum” used when collecting the plot geographic location (circle appropriate):			
NAD83 ;	WGS84 ;	Other: _____	
If you don’t understand what “datum” means see “An Introduction to Locating Sample Points” on the GLWW website < <a href="http://www.nrri.umn.edu/worms/team/Intro-LocatingPoints.html">http://www.nrri.umn.edu/worms/team/Intro-LocatingPoints.html</a> >; NOTE: iTouchMap uses the WGS84 datum.			

## 3. Does your site contain Earthworms (circle appropriate):

YES	NO
If YES, how many Earthworms were found:	

## 4. Earthworm sampling method used (circle all that apply):

Midden Counts	Flip and Strip	Hand Sampling	Mustard Extraction
If you don’t understand the difference between these sampling methods, see the “Earthworm Sampling Methods” section of the GLWW website <a href="http://greatlakeswormwatch.org/research/methods_worms.html">http://greatlakeswormwatch.org/research/methods_worms.html</a> .			

## 5. Describe the area in your habitat that was sampled: (circle or describe below)

Fixed plot (33cm x 33 cm square recommended);
Other: (please describe):

6. Mail in the completed form.

(Optional) Also send any preserved earthworms (be sure to label the vial(s) with **site name** and **date collected**). For preservation instructions see <[http://www.nrri.umn.edu/worms/research/methods\\_worms\\_preserve.html](http://www.nrri.umn.edu/worms/research/methods_worms_preserve.html)>

Mail form and preserved earthworms to: **Great Lakes Worm Watch**  
**The Natural Resources Research Institute, University of Minnesota Duluth**  
**5013 Miller Trunk Hwy., Duluth MN 55811**

Questions? Email: [greatlakeswormwatch@gmail.com](mailto:greatlakeswormwatch@gmail.com) ; Phone: 218-720-4379

Visit our website at <http://www.nrri.umn.edu/worms/default.htm>



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**Section 2 (Optional Data)** – This is a section for additional habitat and soil features of you study site. This data is not essential, HOWEVER can add further details of your study site for our database.

**Habitat Type being surveyed** (circle the best match for the habitat surveyed in one of the 3 columns below)

<b>UPLAND</b> – sites that are dry or moist.	<b>LOWLAND</b> – sites that are wet, permanently or periodically.	<b>HUMAN DOMINATED</b> – Cities, villages, farmstead and rural homes.
<ul style="list-style-type: none"> <li>- Agricultural crops</li> <li>- Agricultural Field or Pasture</li> <li>- Hedgerow Old / Fallow Fields</li> <li>- Dry Prairie, Grassland, or Open Barrens</li> </ul> <p><b>Shrubland and Savanna</b></p> <ul style="list-style-type: none"> <li>- Deciduous Shrubs</li> <li>- Trees Coniferous Shrubs</li> <li>- Trees Mixed Shrubs</li> </ul> <p><b>Forest and Woodland</b></p> <ul style="list-style-type: none"> <li>- Deciduous Trees</li> <li>- Coniferous Trees</li> <li>- Mixed Trees</li> </ul>	<ul style="list-style-type: none"> <li>- Open Water and Wetland Marsh</li> <li>- Lake, Pond, Reservoir, or Impoundment</li> <li>- River or Stream</li> <li>- Agricultural crops</li> <li>- Agricultural Field or Pasture</li> <li>- Hedgerow Old / Fallow Fields</li> <li>- Wet Meadow, Prairie, or Open Sedge Bog</li> </ul> <p><b>Shrubland and Savanna</b></p> <ul style="list-style-type: none"> <li>- Deciduous Shrubs</li> <li>- Trees Coniferous Shrubs</li> <li>- Trees Mixed Shrubs</li> </ul> <p><b>Forest and Woodland</b></p> <ul style="list-style-type: none"> <li>- Deciduous Trees</li> <li>- Coniferous Trees</li> <li>- Mixed Trees</li> </ul>	<p><b>Urban Areas</b></p> <ul style="list-style-type: none"> <li>- Roadway or Ditch</li> <li>- Residential Area Open Space</li> <li>- Commercial or Industrial Area</li> <li>- Waste Water Treatment Site</li> </ul> <p><b>Rural Areas</b></p> <ul style="list-style-type: none"> <li>- Roadway or Ditch</li> <li>- House or Farmstead and Lawn</li> <li>- Park, Golf Course, Mowed</li> <li>- Recreation Area Commercial or Industrial Site</li> </ul>

**Habitat Size:** (circle the best match for the habitat you are sampling)

0-2 acres	2-5 acres	5-20 acres	20-40 acres	40-100 acres	100+ acres
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**Disturbance:** (circle all that apply for the habitat you are sampling)

Historic grazing/farming	Historic logging	Current grazing/farming	Current logging
Recreation-motorized	Recreation non-motorized	Fishing	Unknown
Other: (please describe) _____			

**Surrounding Land Use:** (circle all that apply for the habitat you are sampling)

Urban Development	Suburban Development	Rural Development	Mostly similar to the habitat sampled
Wetlands	Forested	Lakes	Streams and Rivers

**Basic Soil Features:** Pretend that any fresh, or whole dried leaf litter from last fall is not there. Now, tell me what percent of the surface is composed of bare or exposed soil: (circle the best match for the habitat sampled)

0-5%	5-25%	25-50%	50-75%
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Is there any **Forest Floor layer** (spongy partially decomposed leaf material) present? (Circle one) **YES** **NO**

If yes, what is the **average thickness**? (Circle one) 0-2 cm 2-4 cm 4-6 cm 6-10 cm 10+ cm

If yes, is **layering of the forest floor apparent**? (fresh litter on top of a layer of fragmented and partially decomposed litter and perhaps even a layer of very decomposed litter beneath that?) **YES** **NO**

**Soil Texture:** use the **Simplified Key to Mineral Soil Texture** provided on GLWW website

<[http://www.nrri.umn.edu/worms/research/methods\\_soils.html](http://www.nrri.umn.edu/worms/research/methods_soils.html)>

Circle one:

Sand	Loamy sand	Loam or sandy loam	Silt loam
Sandy clay loam - clay loam	Silty clay loam – silt	Sandy clay - clay	Silty - clay

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