

Great Lakes Bioenergy Research Center Marginal Lands Experiment, Climate and Soils Summary Data

Table 1. Site characteristics.

Site	Soil Taxonomy	Latitude	Climate, 30-yr ave Precipitation, temp (NOAA Station)	Previous land use	Pre-settlement veg
Lux Arbor (MI-S)	Typic Hapludalfs	42.476	33.15", 48.2 F (Battle Creek)	Idle for 20 years; alfalfa or row crops prior	oak-hickory forest
Lake City (MI-C)	Alfic Haplorthods, Lamellic Udipsamments, Oxyaquic Glossudalfs, Oxyaquic Haplorthods	44.310	31.98", 43.7 F (Houghton Lake)	unimproved pasture	hemlock-white pine forest
Escanaba (MI-N)	Inceptic Hapludalfs	45.765	28.67", 41.6F (Escanaba)	unimproved pasture	beech-sugar maple-hemlock forest
Oregon (WI-S)	Typic Hapludalfs	42.966	37.27", 46.7 F (WI Arboretum)	unmanaged	Burr oak, hickory, and other oak
Wisconsin River (WI-C)	Aquic Udipsamments, Typic Endoaquolls	43.581	36.14", 46.6 F (Portage)	grass and legume forage	
Hancock (site not officially supported)	Typic Udipsamments, Entic Hapludolls	44.119	31.59", 46.4 F (Oshkosh)	unmanaged for at least 10 years	Oaks - black, burr, white, and undergrowth
Rhineland (WI-N)	Alfic Haplorthods, Typic Aplorthods	45.667	32.23", 39.6 F (North Pelican)	irrigated small grains	white pine, yellow pine, aspen, birch, tamarack

Note: climate data available here: <https://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/> and soils data available here: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx> and here: <https://soilseries.sc.egov.usda.gov/>

Table 2. Soils data, average value from all plots, 0-10 cm depth, during first growing season.

Site	Sample date	pH	P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	Total N (%)	Total C (%)
Lux Arbor (MI-S)	Fall 2013	5.01	23	104	507	84	0.11	1.24
Lake City (MI-C)	Fall 2013	6.23	40	44	700	96	0.18	2.07
Escanaba (MI-N)	Fall 2013	6.96	9	64	1166	177	0.21	2.31
Oregon (WI-S)	Fall 2013	6.11	18	89	1260	333	0.18	1.86
Wisconsin River (WI-C)	Fall 2016	6.09	16	111	695	215		
Hancock (not supported)	Fall 2013	6.55	95	78	480	95	0.07	0.67
Rhineland (WI-N)	Fall 2013	5.75	287	143	515	42	0.15	1.91

Note: Data available here: <https://data.sustainability.glbrc.org/datatables/438> and here: <https://data.sustainability.glbrc.org/datatables/495>
Total N and total C data not yet available for WI-C.