

LTA: 212Tb09

NAME:
Thornton Moraines

ACRES:
88730.883

SQUARE MILES:
138.642

DESCRIPTION:

The characteristic landform pattern is undulating moraine dissected with stream terraces. Soils are predominantly well drained fine sandy loam and loamy sand over loam till. Common habitat types include forested lowland, hydromesic, AQVb-Ha, AQVb, and

CLIMATE

CODE	PERCENT
74	43
75	57

GEOLOGY

BEDROCK TYPE DESCRIPTION
Igneous, Metamorphic, and Volcanic Rock

AVERAGE DEPTH TO BEDROCK
10000

BEDROCK DEPTH DESCRIPTION
Bedrock is between 100 feet and 50 feet of the land surface

GEOMORPHOLOGY

GEOMORPHOLOGY PROCESS
Till and Glacial Meltwater Deposition

TOPOGRAPHY
Undulating

SURFACE
Glacial Plain

SOIL INFORMATION

SOIL ASSOCIATIONS

Tilleda-Menominee-Menahga, Crowell-Mahtomedi, Seelyeville-Markey

SOIL DESCRIPTION

Well drained loamy and sandy soils with a fine sandy loam or loamy sand surface over non-calcareous loam till, along with excessively drained sandy soils with a loamy sand surface over non-calcareous sand outwash.

SURFACE TEXTURES
FSL-LS

GENERAL TEXTURES
Loamy-Sandy

FAMILY TEXTURES
FIL-S/L

DRAINAGE CLASSES
WD-ED

PARENT MATERIAL
Till-Outwash

KOTAR'S HABITAT

HABITAT 1	HABITAT 2	HABITAT 3	HABITAT 4	HABITAT 5	HABITAT 6
Lowland	Hydromesi	AQVb-Ha	AQVb	ATFD	

*Listed in order of probability occurrence, with each having an occurrence of 10% or greater

WISCLAND LAND COVER

COVER TYPE CLASS	ACRES	PERCENT
Agricultural Land	49593	56
Bare Land	1260	1
Forested Wetland	10660	12
Grassland	4681	5
High Intensity Urban Area	627	1
Low Intensity Urban Area	236	0
Nonforested Wetland	5000	6
Open Water	413	0
Shrubland	71	0
Upland Broad-leaved Deciduous	12425	14
Upland Coniferous Forest	1880	2
Upland Mixed Deciduous/Conifer	1879	2

FINLEY'S PRESETTLEMENT VEGETATION INFORMATION

CODE	PERCENT	DEFINITION
Hydrographic	0	Water
BHH/P	20	Beech, Hemlock, Sugar Maple, Yellow Birch, White Pine, Red Pine
HH/P	7	Hemlock, Sugar Maple, Yellow Birch, White Pine, Red Pine
PW/PR	11	White Pine, Red Pine
PJ/OX	13	Jack Pine, Scrub Oak and Barrens
ABW/P	0	Aspen, White Birch, Pine
BE/O	20	Beech, Sugar Maple, Basswood, Red Oak, White Oak, Black Oak
NH/O	2	Sugar Maple, Basswood, Red Oak, White Oak, Black Oak
OO	0	Oak - Black, White, and Burr Oak
OS	1	Oak Openings - Bur, White, Black Oak
UB	2	Brush
SC	21	Swamp Conifers - White Cedar, Black Spruce, Tamarack, Hemlock
LH	0	Lowland Hardwoods - Willow, Soft Maple, Box Elder, Ash, Elm, Cotton Wood, River Birch

HYDROLOGY

PERENNIAL STREAMS	INTERMITTENT STREAMS	OPEN WATER	MARSH ACRES	DEPTH TO AQUIFER	SURFACE DRAINAGE
70 Miles	36 Miles	566 Acres	8043 Acres	0'-20'	dendritic