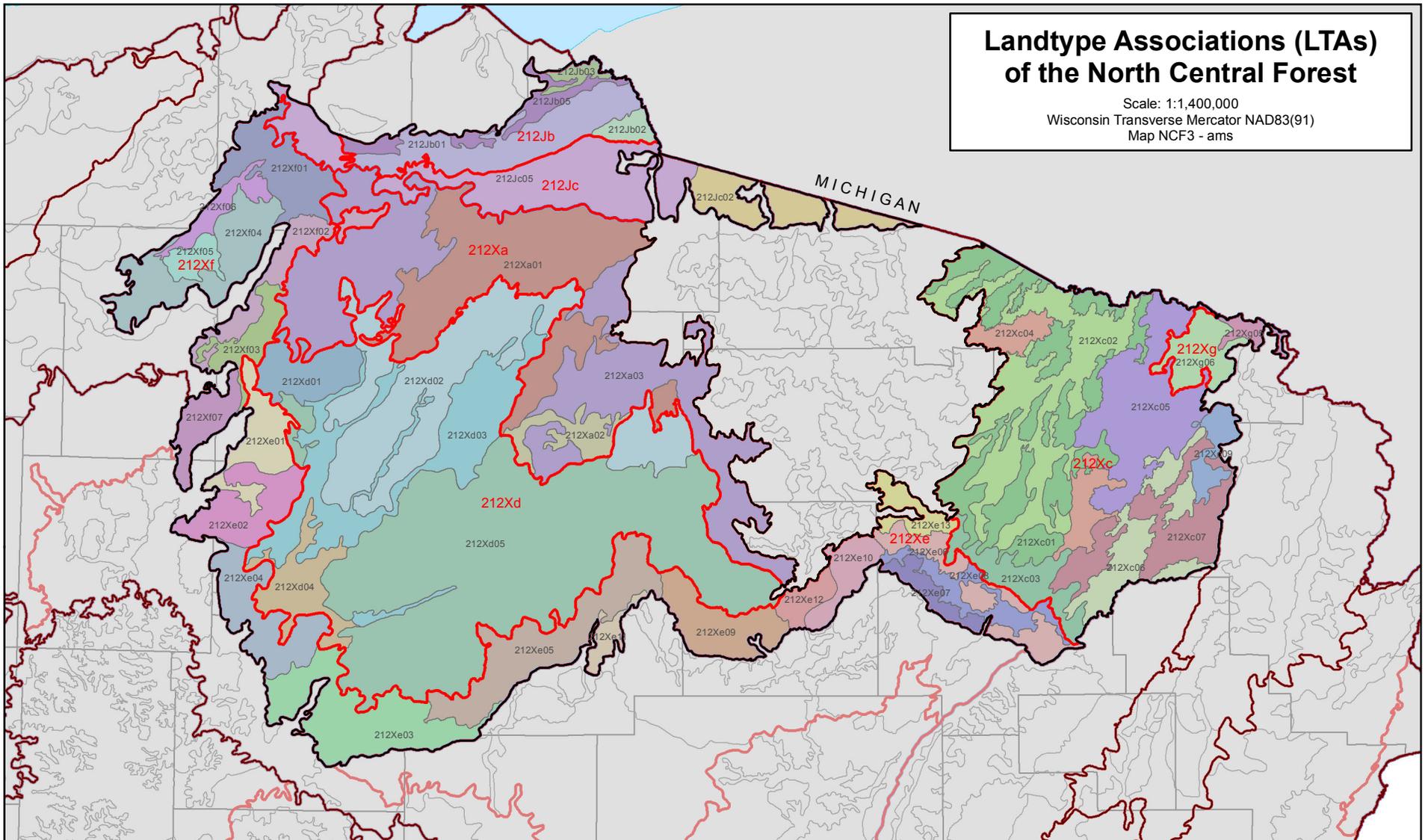


Landtype Associations (LTAs) of the North Central Forest

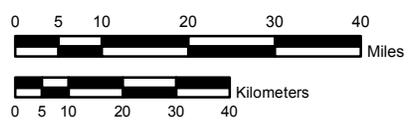
Scale: 1:1,400,000
Wisconsin Transverse Mercator NAD83(91)
Map NCF3 - ams



This map is based on the National Hierarchical Framework of Ecological Units (NHFEU) (Cleland et al. 1997).

The Ecological landscapes used in this handbook are based substantially on Subsections of the NHFEU. Ecological landscapes use the same boundaries as NHFEU Sections or Subsections. However, some NHFEU Subsections were combined to reduce the number of geographical units in the state to a manageable number. LTA descriptions can be found on the back page of this map.

-  Ecological Landscape
-  County Boundaries
-  Sections
-  Subsections
-  Landtype Associations



Landtype Association Descriptions for the North Central Forest Ecological Landscape

212Jb01	Penokee/Gogebic Iron Range	The characteristic landform pattern is hilly bedrock-controlled moraine. Soils are predominantly well drained sandy loam over acid sandy loam till or igneous/metamorphic bedrock. Common habitat types include ATM, ATD, AOCa and forested lowland.
212Jb02	Gile/Erwin Till Plain	The characteristic landform pattern is rolling bedrock-controlled moraine. Soils are predominantly moderately well drained sandy loam over acid sandy loam till, igneous/metamorphic bedrock, or outwash. Common habitat types include ATM, forested lowland, ATD and AOCa.
212Jb03	Saxon/North Ironwood Till Plain	The characteristic landform pattern is undulating moraine. Soils are predominantly moderately well drained silt loam over loam till or loamy lacustrine. Common habitat types include ArAbSn, AAs, ASnMi and wetland.
212Jb05	Gurney/Ontonagon Spillway	The characteristic landform pattern is undulating outwash and lake plain with old beaches, and dunes common. Soils are predominantly excessively drained loamy sand over outwash or loamy lacustrine. Common habitat types include PARV, PARVAa, ArAbSn, ATM, AAs, TMC and wetland.
212Jc02	Winegar Moraines	The characteristic landform pattern is rolling collapsed moraine with swamps and lakes abundant. Soils are predominantly well drained fine sandy loam over acid sandy loam till or outwash. Common habitat types include ATM, ATD, forested lowland, TMC and PARVAa.
212Jc05	Valhalla/Marenisco (McDonald) Moraines	The characteristic landform pattern is rolling collapsed moraine. Soils are predominantly well drained fine sandy loam over acid sandy loam till or outwash. Common habitat types include forested lowland, TMC, hydromesic and ATM.
212Xa01	Glidden Drumlins	The characteristic landform pattern is rolling drumlins and inter-drumlin outwash plains and swamps. Soils are predominantly well drained fine sandy loam over acid loamy sand till. Common habitat types include forested lowland, hydromesic, TMC, AOCa and ATM.
212Xa02	Phillips Plains	The characteristic landform pattern is nearly level outwash plain. Soils are predominantly well drained sandy loam over outwash. Common habitat types include forested lowland, ATM, hydromesic and TMC.
212Xa03	Chequamegon Washed Till and Outwash	The characteristic landform pattern is rolling collapsed moraine and outwash plain complex. Soils are predominantly well drained sandy loam over acid loamy sand debris flow or outwash. Common habitat types include forested lowland, TMC, hydromesic and ATM.
212Xc01	Iron River/Argonne Drumlins	The characteristic landform pattern is rolling drumlin with inter-drumlin drainageways. Soils are predominantly moderately well drained silt loam over acid loamy sand till. Common habitat types include AOCa, TMC, forested lowland, ATM and ATD.
212Xc02	Argonne Outwash Plains	The characteristic landform pattern is undulating pitted and unpitted outwash plain with kame terraces, swamps, and bogs common. Soils are predominantly well drained sandy loam over outwash. Common habitat types include forested lowland, AOCa, ATM, ATD and TMC.
212Xc03	Pickerel Plains	The characteristic landform pattern is undulating pitted and unpitted outwash plain with stream terraces, fans, swamps, and bogs common. Soils are predominantly well drained silt loam over outwash. Common habitat types include ATM, forested lowland, TMC and AH/AOCa.
212Xc04	Nicolet Hills	The characteristic landform pattern is hilly collapsed outwash plain with lakes common. Soils are predominantly well drained sandy loam over outwash. Common habitat types include ATD, ATM, AOCa and PARVAa.
212Xc05	Popple River Knolls	The characteristic landform pattern is rolling collapsed outwash plain with swamps and bogs common. Soils are predominantly well drained sandy loam over outwash. Common habitat types include AOCa, forested lowland, TMC, ATM and ATD.
212Xc06	Wabeno Drumlins	The characteristic landform pattern is rolling drumlins and inter-drumlin drainageways. Soils are predominantly moderately well drained silt loam over acid loamy sand till. Common habitat types include AOCa/AH, forested lowland and ATM.

212Xc07	Wabeno Plains	The characteristic landform pattern is undulating pitted and unpitted outwash plains and kame terraces with swamps and bogs common. Soils are predominantly well drained sandy loam over outwash. Common habitat types include forested lowland, AOCa/AH, ATM and TMC.
212Xc09	Bass Lake Drumlins	The characteristic landform pattern is rolling drumlins and kame terraces. Soils are predominantly well drained sandy loam over acid loamy sand till. Common habitat types include ATM, AOCa, forested lowland, PARVAa-Vb, PARVAo and AVb.
212Xd01	Pipestone Hills	The characteristic landform pattern is hilly bedrock-controlled moraine. Soils are predominantly moderately well drained silt loam over acid sandy loam till. Common habitat types include ATM, AOCa and forested lowland.
212Xd02	Flambeau silt capped Drumlins	The characteristic landform pattern is rolling drumlins with swamps common. Soils are predominantly moderately well drained silt loam over acid sandy loam till. Common habitat types include hydromesic, forested lowland, AOCa and ATM.
212Xd03	Exeland Plains	The characteristic landform pattern is undulating outwash plain. Soils are predominantly well drained silt loam over outwash. Common habitat types include AOCa, hydromesic, forested lowland, ATM and TMC.
212Xd04	Chippewa-Flambeau Plains	The characteristic landform pattern is rolling collapsed outwash plain. Soils are predominantly excessively drained loamy sand over outwash. Common habitat types include forested lowland, hydromesic, ATM, ACaCi, PARVAa and AVVb.
212Xd05	Jump River Ground Moraine	The characteristic landform pattern is undulating moraine and stream terraces. Soils are predominantly somewhat well drained silt loam over dense, acid sandy loam till. Common habitat types include forested lowland, hydromesic and AH/AOCa.
212Xe01	Meteor Hills	The characteristic landform pattern is hilly collapsed moraine. Soils are predominantly well drained sandy loam over dense, acid sandy loam till. Common habitat types include ACaCi, AAt/ATM and hydromesic.
212Xe02	Blue Hills	The characteristic landform pattern is hilly bedrock-controlled moraine. Soils are predominantly well drained silt loam over dense, acid sandy loam till or quartzite bedrock. Common habitat types include ACaCi and AAt/ATM.
212Xe03	Maple Hill Moraines	The characteristic landform pattern is undulating and rolling collapsed moraine complex. Soils are predominantly moderately well drained silt loam over dense, acid sandy loam till. Common habitat types include AH/ATiSa-De, ATM, hydromesic, forested lowland and AVb-V.
212Xe04	Pikes Peak Moraines	The characteristic landform pattern is hilly collapsed moraine. Soils are predominantly well drained sandy loam over dense, acid sandy loam till. Common habitat types include AVDe/AVb-V, AH/ACaCi, AAt/ATM and forested lowland.
212Xe05	Perkinstown Moraines	The characteristic landform pattern is hilly collapsed moraine. Soils are predominantly well drained loamy soils over dense, acid sandy loam till. Common habitat types include ATM, forested lowland, hydromesic, AOCa/AH and TMC.
212Xe06	Elcho Moraines	The characteristic landform pattern is rolling collapsed moraine. Soils are predominantly well drained sandy loam over acid loamy sandy till. Common habitat types include AH/AOCa, ATM, TMC and forested lowland.
212Xe07	Kempster Moraines	The characteristic landform pattern is rolling collapsed moraine with ice-walled lake plains, and lakes common. Soils are predominantly well drained sandy loam over acid loamy sandy till. Common habitat types include ATM, AOCa/AH, forested lowland and TMC.
212Xe08	Summit Lake Moraines	The characteristic landform pattern is rolling collapsed moraine. Soils are predominantly well drained silt loam over outwash. Common habitat types include AH/AOCa, ATM, forested lowland and TMC.
212Xe09	Newood Moraines	The characteristic landform pattern is rolling collapsed moraine with ice-walled lake plains common. Soils are predominantly moderately well drained sandy loam over dense acid sandy loam till. Common habitat types include ATM, forested lowland, TMC, AOCa/AH and hydromesic.
212Xe10	Harrison Hills	The characteristic landform pattern is hilly collapsed moraine with lakes common. Soils are predominantly well drained sandy loam over acid loamy sand till. Common habitat types include ATM, forested lowland, TMC, AVVb and AOCa.
212Xe11	Black River Moraines	The characteristic landform pattern is undulating collapsed moraine and lake plain. Soils are predominantly well drained sandy loam over dense, acid sandy loam till. Common habitat types include forested lowland, hydromesic, ATM and AOCa/AH.

212Xe12	Irma Moraines	The characteristic landform pattern is rolling collapsed moraine. Soils are predominantly well drained sandy loam over acid loamy sand till. Common habitat types include ATM, forested lowland, TMC, AOCa and AVVb.
212Xe13	Rhineland Moraines	The characteristic landform pattern is undulating moraine and outwash plain. Soils are predominantly moderately well drained loam over acid loamy sand till or outwash. Common habitat types include ATM, TMC, forested lowland and AOCa.
212Xf01	Cable Rolling Outwash	The characteristic landform pattern is rolling collapsed and uncollapsed outwash plain. Soils are predominantly excessively drained loamy sand over outwash. Common habitat types include AVVb, TMC, PARVAa and ArQV.
212Xf02	Telemark Washed End Moraine	The characteristic landform pattern is hilly collapsed moraine. Soils are predominantly well drained sandy loam over outwash or acid loamy sand till. Common habitat types include ATM/AAt, AVVb, PARVAa and TMC.
212Xf03	Lac Court Oreilles Plains	The characteristic landform pattern is nearly level pitted outwash plain. Soils are predominantly well drained sandy loam over outwash. Common habitat types include AVVb/AVDe, forested lowland, PARVAa/PArVAm and ATM/AAt.
212Xf04	Hayward Moraines	The characteristic landform pattern is rolling collapsed moraine with swamps common. Soils are predominantly well drained sandy loam over acid loamy sand till or outwash. Common habitat types include forested lowland, AVDe/AVVb, AAt/ATM and PArVAm/PArVAa.
212Xf05	Frog Creek Moraines	The characteristic landform pattern is rolling collapsed moraine with swamps common. Soils are predominantly moderately well drained silt loam over acid loamy sand till. Common habitat types include hydromesic, forested lowland and AOCa.
212Xf06	Smokey Hill Basalt Ridge	The characteristic landform pattern is hilly bedrock-controlled moraine. Soils are predominantly well drained sandy loam over acid loamy sand till or igneous/metamorphic bedrock. Common habitat types include ATM, forested lowland, AVVb and hydromesic.
212Xf07	Birchwood Lakes	The characteristic landform pattern is hilly collapsed moraine with ice-walled lake plains. Soils are predominantly well drained sandy loam over acid sandy loam/loamy sand till. Common habitat types include AVDe, ACaCi and forested lowland.
212Xg05	Florance Moraines	Landform pattern is rolling collapsed moraines and outwash plains with bedrock knolls and ridges. Soils are predominantly well drained fine sandy loam over outwash, acid sandy loam till, or igneous/metamorphic bedrock. Common habitat types include ATM, PARVAa-Vb, PARVAo, AVb and forested lowland.
212Xg06	Fern Moraines	The characteristic landform pattern is rolling bedrock-controlled moraines and outwash plains. Soils are predominantly well drained silt loam over acid loamy sand till, igneous/metamorphic bedrock, or outwash. Common habitat types include AOCa, ATD, ATM, TMC, AVVb and forested lowland.