

**HEL Conversion Legend for Updated Soil Survey
Washington County, Tennessee
Prepared by Nathan Hartgrove, July 2012**

This document links the updated soil survey to the 1991 frozen HEL soils list. Locate the “HEL Reference” map unit on the frozen HEL soils list for HEL determinations based on the updated soil survey. A direct conversion did not exist for some map units in the mountains or used to join surrounding soil surveys. In these cases a conversion is given that provides a correct classification.

Map Symbol	Map Unit Name	HEL Reference
Au	Augusta loam, 0 to 2 percent slopes, rarely flooded	Ah
BaD2	Bays silty clay loam, 12 to 20 percent slopes, eroded	Db
BaE2	Bays silty clay loam, 20 to 35 percent slopes, eroded	Dc
BaF2	Bays silty clay loam, 35 to 65 percent slopes, eroded	Dd
BmB	Bellamy loam, 2 to 5 percent slopes	La
BmC	Bellamy loam, 5 to 12 percent slopes	Lb
BoC2	Bolton loam, 7 to 12 percent slopes, eroded	Bc
BoD2	Bolton loam, 12 to 25 percent slopes, eroded	Bd
BoE2	Bolton loam, 25 to 45 percent slopes, eroded	Be
BrB	Braxton silt loam, 2 to 5 percent slopes	Dnk
BrC	Braxton silt loam, 5 to 12 percent slopes	Dnb
BrD2	Braxton silt loam, 12 to 20 percent slopes, eroded	Dnb
BrE2	Braxton silt loam, 20 to 35 percent slopes, eroded	Dnc
BtD2	Braxton-Talbott-Rock outcrop complex, 12 to 20 percent slopes, eroded	Se
BtE2	Braxton-Talbott-Rock outcrop complex, 20 to 35 percent slopes, eroded	Sg
BuD	Braxton-Urban land complex, 5 to 20 percent slopes	Dnb*
By	Buncombe loamy fine sand, 0 to 3 percent slopes, frequently flooded	Bf
CaE	Cataska channery silt loam, 20 to 35 percent slopes	Ra
CaF	Cataska channery silt loam, 35 to 50 percent slopes	Rb
CaG	Cataska channery silt loam, 50 to 80 percent slopes	Rc
Cca	Chewacla loam, 0 to 2 percent slopes, occasionally flooded	Ca
CeC2	Collegedale-Etowah complex, 5 to 12 percent slopes, eroded	Dnl
CeD3	Collegedale-Etowah complex, 12 to 20 percent slopes, severely eroded	Dnn
CeE3	Collegedale-Etowah complex, 20 to 35 percent slopes, severely eroded	Dnp
Cl	Colvard fine sandy loam, 0 to 3 percent slopes, occasionally flooded	Cc
Cn	Congaree fine sandy loam, 0 to 3 percent slopes, occasionally flooded	Cc
CsB	Craigsville cobbly sandy loam, 1 to 5 percent slopes, frequently flooded	Cb
CuB	Cumberland silt loam, 2 to 5 percent slopes	Ce
CuC2	Cumberland silty clay loam, 5 to 12 percent slopes, eroded	Cf
CuD2	Cumberland silty clay loam, 12 to 25 percent slopes, eroded	Cg
DAM	Dam, large	**
DeC2	Dewey silty clay loam, 5 to 12 percent slopes, eroded	Dh
DeD2	Dewey silty clay loam, 12 to 25 percent slopes, eroded	Dk
DrD	Dewey-Udorthents-Urban land complex, 5 to 20 percent slopes	Dk*
DtE	Ditney sandy loam, 20 to 35 percent slopes	Rb
DtF	Ditney sandy loam, 35 to 50 percent slopes	Rc
DuC2	Dunmore silty clay loam, 5 to 12 percent slopes, eroded	Dsa
DuD2	Dunmore silty clay loam, 12 to 25 percent slopes, eroded	Dsb
DuE2	Dunmore silty clay loam, 25 to 50 percent slopes, eroded	Dsg
Dz	Dumps, landfills	**
EmB	Emory silt loam, 2 to 5 percent slopes, rarely flooded	Ea
EtB	Etowah silt loam, 2 to 5 percent slopes	Wc
EtC	Etowah silt loam, 5 to 12 percent slopes	Wd

Map Symbol	Map Unit Name	HEL Reference
GnB	Greendale silt loam, 2 to 6 percent slopes, rarely flooded	Ga
GrC2	Groseclose gravelly silty clay loam, 5 to 12 percent slopes, eroded	Gh
GrD2	Groseclose gravelly silt loam, 12 to 25 percent slopes, eroded	Gk
GrE2	Groseclose gravelly silt loam, 25 to 50 percent slopes, eroded	Gf
GuE	Gullied land-Dunmore complex, 12 to 50 percent slopes	Gl
Haa	Hamblen loam, 0 to 3 percent slopes, occasionally flooded	Ha
HoB	Holston loam, 2 to 5 percent slopes	HI
HoC2	Holston loam, 5 to 12 percent slopes, eroded	Hm
HoD2	Holston cobbly loam, 12 to 25 percent slopes, eroded	We
KeC	Keener loam, 5 to 12 percent slopes	Jb
KeD	Keener loam, 12 to 20 percent slopes	Jf
KeE	Keener loam, 20 to 35 percent slopes	Jf
KsC	Keener loam, 5 to 12 percent slopes, stony	Jd
KsD	Keener loam, 12 to 20 percent slopes, stony	Jf
KsE	Keener loam, 20 to 35 percent slopes, stony	Jf
KsF	Keener loam, 35 to 50 percent slopes, stony	Jf
LeB	Leadvale silt loam, 2 to 5 percent slopes	La
LeC2	Leadvale silt loam, 5 to 12 percent slopes, eroded	Lb
Lna	Lindside silt loam, 0 to 3 percent slopes, occasionally flooded	Lc
LoC	Lonon loam, 5 to 12 percent slopes	Aa
LoD	Lonon loam, 12 to 20 percent slopes	Ac
LoE	Lonon loam, 20 to 35 percent slopes	Ac
MaB	Masada loam, 2 to 5 percent slopes	Mc
MaC2	Masada clay loam, 5 to 12 percent slopes, eroded	Ma
MaD2	Masada clay loam, 12 to 25 percent slopes, eroded	Mb
MdF	Maymead loam, 35 to 50 percent slopes	Jf
Mea	Melvin silt loam, 0 to 2 percent slopes, occasionally flooded	Md
MnB	Monongahela silt loam, 1 to 5 percent slopes	Me
MoC	Montevallo channery silt loam, 5 to 12 percent slopes	Da
MoD	Montevallo channery silt loam, 12 to 20 percent slopes	Db
MoE	Montevallo channery silt loam, 20 to 35 percent slopes	Dd
MoF	Montevallo channery silt loam, 35 to 50 percent slopes	De
MoG	Montevallo channery silt loam, 50 to 80 percent slopes	De
NcC2	Nolichucky loam, 5 to 12 percent slopes, eroded	Nc
NcD2	Nolichucky loam, 12 to 25 percent slopes, eroded	Ne
NoD	Northcove stony sandy loam, 5 to 20 percent slopes	Jf
NoE	Northcove stony sandy loam, 20 to 35 percent slopes	Jf
NoF	Northcove stony sandy loam, 35 to 50 percent slopes	Jf
NoG	Northcove stony sandy loam, 50 to 80 percent slopes	Jf
Pj	Pettyjon loam, 0 to 2 percent slopes, rarely flooded	Cd
Pz	Pits, Mines, and Dumps	**
RuG	Rock outcrop-Unicoi complex, 50 to 99 percent slopes	Rc
SeB	Sequatchie loam, 1 to 5 percent slopes, rarely flooded	Sb
ShF	Shelocta silt loam, 35 to 50 percent slopes	Jf
SoE	Soco fine sandy loam, 20 to 35 percent slopes, stony	Rb
SoF	Soco fine sandy loam, 35 to 50 percent slopes, stony	Rc
Ss	Staser loam, 0 to 3 percent slopes, occasionally flooded	Sc
St	Steadman silt loam, 0 to 2 percent slopes, occasionally flooded	Lc
TbD2	Talbott-Rock outcrop-Bradyville complex, 12 to 20 percent slopes, eroded	Se
TbE2	Talbott-Rock outcrop-Bradyville complex, 20 to 50 percent slopes, eroded	Sg

Map Symbol	Map Unit Name	HEL Reference
Ty	Tyler silt loam, 0 to 3 percent slopes	Ta
UcF	Unicoi-Rock outcrop complex, 35 to 50 percent slopes	Rb
UcG	Unicoi-Rock outcrop complex, 50 to 80 percent slopes	Rc
Ur	Urban land	**
Uu	Urban land-Udorthents complex	**
W	Water	**
WaB	Waynesboro loam, 2 to 5 percent slopes	Wc
WaC2	Waynesboro loam, 5 to 12 percent slopes, eroded	Wd
WaD2	Waynesboro loam, 12 to 25 percent slopes, eroded	We
Wea	Weaver silt loam, 0 to 3 percent slopes, occasionally flooded	Wf
Wga	Wehadkee silt loam, 0 to 2 percent slopes, occasionally flooded	Wg
WtB	Whitesburg silt loam, 1 to 5 percent slopes, occasionally flooded	Wh

Footnotes:

* The Urban Land component is not assigned a HEL classification.

** This map unit is not assigned a HEL classification.

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