

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

This document links the updated soil survey to the 1991 frozen HEL soils list – referenced by the EFOTG and other documents. Use the “HEL Reference” map unit and the frozen HEL soils list to make HEL determinations based on the updated soil survey. Most of these conversions are based on data gathered during the soil survey update. A direct conversion did not exist for some map units used to join surrounding soil surveys. In these cases a conversion was chosen to provide a correct classification.

<b>Map Symbol</b>	<b>Map Unit Name</b>	<b>HEL Reference</b>
BaF	Balsam very cobbly loam, windswept, 30 to 50 percent slopes, extremely stony	Bd
BbB	Bellamy loam, 2 to 5 percent slopes	Gb
Bd	Bloomington silty clay loam, occasionally flooded	Lb
BkC	Braddock loam, 5 to 12 percent slopes	Tr
BkD	Braddock loam, 12 to 20 percent slopes	Tu
BrB	Braxton silt loam, 2 to 5 percent slopes	Gb
BrC	Braxton silt loam, 5 to 12 percent slopes	Hg
BrD2	Braxton silt loam, 12 to 20 percent slopes, eroded	Dp
BrE2	Braxton silt loam, 20 to 35 percent slopes, eroded	Dn
BrF2	Braxton silt loam, 35 to 50 percent slopes, eroded	Dm
BsE	Brookshire silt loam, 20 to 35 percent slopes	Tt
BtD2	Braxton-Talbott-Rock outcrop complex, 12 to 20 percent slopes, eroded	Sg
BtE2	Braxton-Talbott-Rock outcrop complex, 20 to 35 percent slopes, eroded	L
BuD	Braxton-Urban land complex, 5 to 20 percent slopes	Hg *
BxD	Burton-Craggey complex, windswept, 8 to 15 percent slopes, extremely bouldery	Bd
BxE	Burton-Craggey complex, windswept, 15 to 35 percent slopes, extremely bouldery	Bd
BzD	Burton-Wayah complex, windswept, 15 to 30 percent slopes, stony	Bd
BzE	Burton-Wayah complex, windswept, 30 to 50 percent slopes, stony	Bd
BzF	Burton-Wayah complex, windswept, 50 to 95 percent slopes, stony	Bd
CaD	Calvin channery silt loam, 12 to 20 percent slopes	Th
CaE	Calvin channery silt loam, 20 to 35 percent slopes	Tc
CaF	Calvin channery silt loam, 35 to 50 percent slopes	Te
CcF	Cataska channery silt loam, 35 to 50 percent slopes	Rb
CcG	Cataska channery silt loam, 50 to 80 percent slopes	Rc
ChE	Chestnut loam, 20 to 35 percent slopes	Pe
ChF	Chestnut loam, 35 to 50 percent slopes	Pk
CjD	Chestnut-Ashe complex, 15 to 30 percent slopes, very stony	Ap
CjE	Chestnut-Ashe complex, 30 to 50 percent slopes, very stony	Au
CjF	Chestnut-Ashe complex, 50 to 95 percent slopes, very stony	Al
CkG	Cleveland sandy loam, 50 to 80 percent slopes	Q
Cn	Colvard fine sandy loam, occasionally flooded	Bc
Co	Colvard-Urban land complex	Bc *
CrF	Craggey-Burton complex, windswept, 35 to 50 percent slopes, extremely bouldery	Bd
CsB	Craigsville cobbly sandy loam, 1 to 5 percent slopes, frequently flooded	Cl
DtE	Ditney sandy loam, 20 to 35 percent slopes	Ra
DtF	Ditney sandy loam, 35 to 50 percent slopes	Rb
DtG	Ditney sandy loam, 50 to 80 percent slopes	Rc
EdD	Edneytown loam, 12 to 20 percent slopes	Pd
EvE	Edneyville-Chestnut complex, 30 to 50 percent slopes, stony	Pk
EvF	Edneyville-Chestnut complex, 50 to 80 percent slopes, stony	Pl
GrE	Greenlee very cobbly loam, 20 to 35 percent slopes	Am
GrF	Greenlee very cobbly loam, 35 to 50 percent slopes	Am
GsD	Groseclose silty clay loam, 12 to 20 percent slopes	Gd
GsE	Groseclose silty clay loam, 20 to 35 percent slopes	Gc
JeE	Jeffrey loam, 20 to 35 percent slopes	Ra
JeF	Jeffrey loam, 35 to 50 percent slopes	Rb
KeC	Keener loam, 5 to 12 percent slopes	Jc
KeD	Keener loam, 12 to 20 percent slopes	Jf

Map Symbol	Map Unit Name	HEL Reference
KeE	Keener loam, 20 to 35 percent slopes	Jk
KeF	Keener loam, 35 to 50 percent slopes	Jm
LoC	Lonon loam, 5 to 12 percent slopes	Ab
LoD	Lonon loam, 12 to 20 percent slopes	Ad
LoE	Lonon loam, 20 to 35 percent slopes	Ah
MaE	Maymead loam, 20 to 35 percent slopes	Ra
MaF	Maymead loam, 35 to 50 percent slopes	Rb
MoD	Montevallo channery silt loam, 12 to 20 percent slopes	Db
MoE	Montevallo channery silt loam, 20 to 35 percent slopes	Da
MoF	Montevallo channery silt loam, 35 to 50 percent slopes	De
MoG	Montevallo channery silt loam, 50 to 80 percent slopes	Df
NcF	Northcove very stony loam, 35 to 50 percent slopes	Rb
NcG	Northcove very stony loam, 50 to 80 percent slopes	Rb
Pj	Pettyjon loam, rarely flooded	Ha
PmE	Plott loam, 15 to 30 percent slopes, stony	Bd
PnD	Porters gravelly loam, 15 to 30 percent slopes, stony	Pf
PnE	Porters gravelly loam, 30 to 50 percent slopes, stony	Pg
PnF	Porters gravelly loam, 50 to 80 percent slopes, stony	Pl
Po	Potomac gravelly loam, rarely flooded	Cl
ShB	Shady loam, 1 to 4 percent slopes, rarely flooded	Sd
SoE	Shelocta silt loam, 20 to 35 percent slopes	Ca
SpF	Spivey very cobbly loam, 35 to 50 percent slopes	Tp
SpG	Spivey very cobbly loam, 50 to 80 percent slopes	Tp
St	Steadman silt loam, occasionally flooded	Ha
TtC	Tate stony loam, 2 to 15 percent slopes	Tb
TtE	Tate stony loam, 15 to 35 percent slopes	Ta
TtF	Tate stony loam, 35 to 60 percent slopes	Ta
TuE	Tusquitee loam, 20 to 35 percent slopes	Tp
TuF	Tusquitee loam, 35 to 50 percent slopes	Tp
UaE	Unaka loam, 15 to 35 percent slopes	Pe
UaF	Unaka loam, 35 to 60 percent slopes	Ph
UcG	Unicoi-Rock outcrop complex, 50 to 80 percent slopes	Sl
UnB	Unison loam, 2 to 5 percent slopes	Md
UnC	Unison loam, 5 to 12 percent slopes	Mb
UuC	Unison-Urban land complex, 5 to 12 percent slopes	Mb *
W	Water	**
WaE	Wayah-Burton complex, windswept, 15 to 30 percent slopes, stony	Bd
WaF	Wayah-Burton complex, windswept, 30 to 50 percent slopes, very stony	Bd
WbC	Waynesboro loam, 5 to 12 percent slopes	Nb
WbD2	Waynesboro loam, 12 to 20 percent slopes, eroded	Na
We	Wehadkee fine sandy loam, occasionally flooded	Wa

**Footnotes:**

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

\*\* Water is not assigned a HEL classification.

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