

**HEL Conversion Legend for Updated Soil Survey  
Johnson 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>
AcF	Ashe-Cleveland-Rock outcrop complex, 50 to 95 percent slopes, extremely bouldery	Ab
AsE	Ashe gravelly fine sandy loam, 12 to 25 percent slopes	Ac
AsF	Ashe gravelly fine sandy loam, 25 to 65 percent slopes	Af
BeC	Bledsoe silt loam, 5 to 12 percent slopes	Hb
BeD	Bledsoe silt loam, 12 to 20 percent slopes	Ea
BeE	Bledsoe silt loam, 20 to 35 percent slopes	Ee
BsE	Brookshire silt loam, 20 to 35 percent slopes	Tn
BsF	Brookshire silt loam, 35 to 50 percent slopes	Tn
BtD	Burton loam, 7 to 15 percent slopes, stony	Ac
BtE	Burton loam, 15 to 35 percent slopes, very stony	Af
BtF	Burton loam, 35 to 55 percent slopes, very stony	Af
BuF	Burton-Craggey-Rock outcrop complex, windswept, 30 to 95 percent slopes	Af
BwD	Burton-Wayah complex, windswept, 15 to 30 percent slopes, stony	Af
CaD	Calvin channery silt loam, 12 to 20 percent slopes	Te
CaE	Calvin channery silt loam, 20 to 35 percent slopes	Tc
CaF	Calvin channery silt loam, 35 to 50 percent slopes	Tc
CbrG	Caneyville-Rock outcrop complex, 50 to 80 percent slopes	Sm
CcE	Cataska channery silt loam, 20 to 35 percent slopes	Ra
CcF	Cataska channery silt loam, 35 to 50 percent slopes	Rb
CcG	Cataska channery silt loam, 50 to 80 percent slopes	Rb
Cg	Chagrin loam, rarely flooded	Sg
ChE	Chestnut loam, 20 to 35 percent slopes	Aa
ChF	Chestnut loam, 35 to 50 percent slopes	Aa
ChG	Chestnut-Ashe complex, 50 to 95 percent slopes, very stony	Ag
CjD	Chestnut-Edneyville complex, 15 to 30 percent slopes, stony	Ac
CjE	Chestnut-Edneyville complex, 30 to 50 percent slopes, stony	Ad
Cs	Craigsville cobbly sandy loam, frequently flooded	Ce
CuD	Cullasaja very cobbly loam, 15 to 30 percent slopes, very stony	Jn
Di	Dillard loam, rarely flooded	Cf
DjF	Ditney-Unicoi complex, very rocky, 50 to 95 percent slopes	Rc
DtE	Ditney sandy loam, 20 to 35 percent slopes	Rb
DtF	Ditney sandy loam, 35 to 50 percent slopes	Rb
DtG	Ditney sandy loam, 50 to 80 percent slopes	Rc
Du	Dunning silt loam, occasionally flooded	Da
EdE	Edneyville loam, 12 to 25 percent slopes	Ac
EdF	Edneyville loam, 25 to 45 percent slopes	Ad
EvE	Edneyville-Chestnut complex, 30 to 50 percent slopes, stony	Ac
GrE	Greenlee very cobbly loam, 15 to 35 percent slopes, very stony	Ac
GrF	Greenlee very cobbly loam, 35 to 55 percent slopes, very stony	Ad
GrG	Greenlee very cobbly loam, 55 to 80 percent slopes, very stony	Ag
Ht	Hatboro loam, occasionally flooded	Ph
Hu	Hatboro silt loam, frequently flooded	Ph
JeD	Jeffrey cobbly loam, 15 to 30 percent slopes, very stony	Ra
JeE	Jeffrey cobbly loam, 30 to 50 percent slopes, very stony	Ra

Map Symbol	Map unit name	HEL Reference
KeC	Keener loam, 5 to 12 percent slopes	Sa
KeD	Keener loam, 12 to 20 percent slopes	Jc
KeE	Keener loam, 20 to 35 percent slopes	Jc
KeF	Keener loam, 35 to 50 percent slopes	Jc
LoD	Lonon loam, 12 to 20 percent slopes	Hg
LoE	Lonon loam, 20 to 35 percent slopes	Hn
MaE	Maymead loam, 20 to 35 percent slopes	Ra
MaF	Maymead loam, 35 to 50 percent slopes	Rb
NcF	Northcove very stony sandy loam, 35 to 50 percent slopes	Ra
NcG	Northcove very stony sandy loam, 50 to 80 percent slopes	Rb
PgE	Pigeonroost gravelly loam, 8 to 35 percent slopes, very stony	Ac
PgF	Pigeonroost gravelly loam, 35 to 55 percent slopes, very stony	Ab
PnF	Pineola loam, 35 to 55 percent slopes, very stony	Ab
PoE	Porters loam, 15 to 30 percent slopes, stony	Ac
PsF	Porters stony loam, 25 to 65 percent slopes	Ab
SaC	Saunook loam, 8 to 15 percent slopes	Jg
ScC	Shelocta silt loam, 5 to 12 percent slopes	Ma
ScD	Shelocta silt loam, 12 to 20 percent slopes	Ma
ScE	Shelocta silt loam, 20 to 35 percent slopes	Ma
ScF	Shelocta silt loam, 35 to 50 percent slopes	Ma
SoE	Soco fine sandy loam, 20 to 35 percent slopes	Pb
SoF	Soco fine sandy loam, 35 to 50 percent slopes	Pf
SoG	Soco fine sandy loam, 50 to 80 percent slopes	Pf
SrB	Statler loam, 1 to 4 percent slopes	Sd
SyF	Sylco-Sylvatus complex, 35 to 55 percent slopes	Rb
TsD	Tusquitee loam, 8 to 15 percent slopes	Tl
UcG	Unicoi-Rock outcrop complex, 50 to 80 percent slopes	Rc
W	Water	**

Footnotes:

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

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