MAP UNITS OF HIGHLY ERODIBLE LAND

INTRODUCTION

Natural processes continually create new soil from the raw underlying parent material or from bedrock. For most soils in the State, these processes offset about 3 tons per acre of erosion each year. Erosion slower than the rate of replacement is considered "tolerable". Each soil is assigned a tolerance value based mainly on the thickness of the soil above bedrock or unaltered parent material.

Soil Conservation Service Soil Scientists and Soil Conservationists determine if a soil or map unit is highly erodible or potentially highly erodible due to sheet and rill erosion. This is done by using the Universal Soil Loss Equation (USLE). The USLE relates the effects of rainfall, soil characteristics, and length and steepness of slope to the soil's tolerable erosion rate by water.

DEFINITION OF HIGHLY ERODIBLE SOIL

A highly erodible soil/map unit is a soil with a maximum potential for erosion that equals or exceeds eight times the tolerable erosion rate. This can be represented by the formula - RKLS/T≥8. The formula does not consider crop management or conservation practices, which influence the actual erosion rate.

CRITERIA FOR HIGHLY ERODIBLE SOIL MAP UNITS

The procedure used to determine whether a given soil map unit qualifies as highly erodible land or potentially highly erodible land follows:

- Step 1. For each soil map unit in the county soil legend, calculate the minimum LS value required for RKLS/T≥8 by solving for LS, ie. LS = 8T/RK.
- Step 2. For the specific combinations of slope and steepness specified in Steps 3 and 4, obtain LS values from table 3 in the Appendices (from Agriculture Handbook 537, December, 1978).
- Step 3. A soil map unit qualifies as highly erodible land if the LS value for the shortest length and minimum percent of slope expected for the unit equals or exceeds the minimum value calculated in Step 1, ie. LS = 8T/RK. See Appendices A-F.

- Step 4. A soil map unit qualifies as potentially highly erodible land if -
 - a. The LS value for the shortest length and minimum percent of slope expected for the unit is less than 8T/RK and
 - b. The LS value for the longest length and maximum percent of slope expected for the unit exceeds 8T/RK.

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See Apendices A-F.

This information is to be used in conjunction with published county soil surveys.

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මේද්රාද්ධවිය ක්රියාද්ය විශ්ය වැඩිවුන් විධාර්තියෝ සිද්ධාන මෙය වැඩි සිය සියුණි මෙයද්ධාර්තියේ සිදු ද්රාය මිසුණේ යන ද්රායාද්ධාර්තිය සම්ප්රාද්ධාන මෙයද්ධාන වෙන මහ මහ මෙයද්ධාන් දෙන්ද්රාද්ධාන සිටියිය. මිසිණේ විධාර්තියේ සිදුණේ සිදුණේ සිදුණේ සිදුණේ සම්ප්රායේ සිදුණේ සිදුණ් සිදුණ් සිදුණ් සිදුණ් සිදුණේ සිදුණේ සිදුණේ

Fairfield County, Connecticut (Correlated and Published, 1981)

AfC	Agawam fine sandy loam, 8 to 15 percent slopes
CfC	Charlton fine sandy loam, 8 to 15 percent slopes
CfD	Charlton fine sandy loam, 15 to 25 percent slopes
GgC	Georgia silt loam, 8 to 15 percent slopes
HkC	Hinckley gravelly sandy loam, 8 to 15 percent slopes
HkD	Hinckley gravelly sandy loam, 15 to 35 percent slopes
PbC	Paxton fine sandy loam, 8 to 15 percent slopes
PbD	Paxton fine sandy loam, 15 to 25 percent slopes
SnC	Stockbridge loam, 8 to 15 percent slopes
SnD	Stockbridge loam, 15 to 25 percent slopes
WxC	Woodbridge fine sandy loam, 8 to 15 percent slopes

Hartford County, Connecticut (Correlated and Published, 1962)

AfC AgC	Agawam fine sandy loam, 8 to 15 percent slopes Agawam very fine sandy loam, 8 to 15 percent slopes
BcC BrC BrC2 BrD BtC BxC	Berlin silt loam, 8 to 15 percent slopes Broadbrook silt loam, 8 to 15 percent slopes Broadbrook silt loam, 8 to 15 percent slopes, eroded Broadbrook silt loam, 15 to 25 percent slopes Brookfield fine sandy loam, 8 to 15 percent slopes Buxton silt loam, 8 to 15 percent slopes
CaC CaD CsC CsC2 CsD2	Charlton fine sandy loam, 8 to 15 percent slopes Charlton fine sandy loam, 15 to 25 percent slopes Cheshire fine sandy loam, 8 to 15 percent slopes Cheshire fine sandy loam, 8 to 15 percent slopes, eroded Cheshire fine sandy loam, 15 to 25 percent slopes, eroded
EsC EsC2	Enfield silt loam, 8 to 15 percent slopes Enfield silt loam, 8 to 15 percent slopes, eroded
GcC GcD	Gloucester fine sandy loam, 8 to 15 percent slopes Gloucester fine sandy loam, 15 to 25 percent slopes
HfC	Hartford sandy loam, 8 to 15 percent slopes
MrC MyC	Merrimac fine sandy loam, 8 to 15 percent slopes Merrimac sandy loam, 8 to 15 percent slopes
NaC NaC2 NaD	Narragansett silt loam, 8 to 15 percent Narragansett silt loam, 8 to 15 percent slopes, eroded Narragansett silt loam, 15 to 25 percent slopes
PaC PaD PbC PbD2 PuC	Paxton fine sandy loam, reddish substratum, 8 to 15 percent slopes Paxton fine sandy loam, reddish substratum, 15 to 25 percent slopes Paxton loam, 8 to 15 percent slopes Paxton loam, 15 to 25 percent slopes, eroded Poquonock sandy loam, 8 to 15 percent slopes
WkC WkC2 WkD WkD3	Wethersfield loam, 8 to 15 percent slopes Wethersfield loam, 8 to 15 percent slopes, eroded Wethersfield loam, 15 to 25 percent slopes Wethersfield loam, 15 to 25 percent slopes, severely eroded

Litchfield County, Connecticut (Correlated and Published, 1970)

AnC	Amenia silt loam, 8 to 15 percent slopes	
BoC	Branford loam, 8 to 15 percent slopes	
BqC	Bernardston silt loam, 8 to 15 percent slopes	
CaC	Charlton fine sandy loam, 8 to 15 percent slopes	
CaC2	Charlton fine sandy loam, 8 to 15 percent slopes, eroded	
CaD	Charlton fine sandy loam, 15 to 25 percent slopes	
CaE	Charlton fine sandy loam, 25 to 35 percent slopes	
CwC	Copake loam, 8 to 15 percent slopes	
DoC	Dover fine sandy loam, 8 to 15 percent slopes	
DoD	Dover fine sandy loam, 15 to 25 percent slopes	
EsC	Enfield silt loam, 8 to 15 percent slopes	
GaC	Gloucester sandy loam, 8 to 15 percent slopes	
GaD	Gloucester sandy loam, 15 to 25 percent slopes	
ньс	Hartland silt loam, 8 to 15 percent slopes	
MyC	Merrimac sandy loam, 8 to 15 percent slopes	
PbC	Paxton fine sandy loam, 8 to 15 percent slopes	
PbC2	Paxton fine sandy loam, 8 to 15 percent slopes, eroded	
PbD	Paxton fine sandy loam, 15 to 25 percent slopes	
PbD2	Paxton fine sandy loam, 15 to 25 percent slopes, erode	
PbE	Paxton fine sandy loam, 25 to 35 percent slopes	
SnC	Stockbridge loam, 8 to 15 percent slopes	
SnC2	Stockbridge loam, 8 to 15 percent slopes, eroded	
SnD2	Stockbridge loam, 15 to 25 percent slopes, eroded	
WxC	Woodbridge fine sandy loam, 8 to 15 percent slopes	

Middlesex County, Connecticut (Correlated and Published, 1980)

ВоС	Branford silt loam, 8 to 15 percent slopes
CsC	Cheshire silt loam, 8 to 15 percent slopes
HME	Hinckley and Manchester soils, 15 to 45 percent slopes
PbC PbD	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes Paxton and Montauk fine sandy loams, 15 to 25 percent slopes
WKC WKD	Wethersfield loam, 8 to 15 percent slopes Wethersfield loam, 15 to 35 percent slopes
YaC	Yalesville fine sandy loam, 8 to 15 percent slopes

New Haven County, Connecticut (Correlated and Published, 1979)

AfC	Agawam fine sandy loam, 8 to 15 percent slopes
ВоС	Branford silt loam, 8 to 15 percent slopes
CfC CfD CsC CsD	Charlton fine sandy loam, 8 to 15 percent slopes Charlton fine sandy loam, 15 to 25 percent slopes Cheshire fine sandy loam, 8 to 15 percent slopes Cheshire fine sandy loam, 15 to 25 percent slopes
HkC HME	Hinckley gravelly sandy loam, 8 to 15 percent slopes Hinckley and Manchester soils, 15 to 35 percent slopes
MgC	Manchester gravelly sandy loam, 8 to 15 percent slopes
PbC PbD	Paxton fine sandy loam, 8 to 15 percent slopes Paxton fine sandy loam, 15 to 25 percent slopes
WkC WkD	Wethersfield loam, 8 to 15 percent slopes Wethersfield loam, 15 to 25 percent slopes
YaC	Yalesville fine sandy loam, 8 to 15 percent slopes

New London County, Connecticut (Correlated and Published, 1983)

CbC CbD	Canton and Charlton fine sandy loams, 8 to 15 percent slopes Canton and Charlton fine sandy loams, 15 to 25 percent slopes
HkD	Hinckley gravelly sandy loam, 15 to 35 percent slopes
MyC	Merrimac sandy loam, 8 to 15 percent slopes
PbC PbD	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes Paxton and Montauk fine sandy loams, 15 to 25 percent slopes
WxC	Woodbridge fine sandy loam, 8 to 15 percent slopes

Tolland County, Connecticut (Correlated and Published, 1966)

CaC CaD CsC CsC2 CsD2	Charlton fine sandy loam, 8 to 15 percent slopes Charlton fine sandy loam, 15 to 25 percent slopes Cheshire fine sandy loam, 8 to 15 percent slopes Cheshire fine sandy loam, 8 to 15 percent slopes, eroded Cheshire fine sandy loam, 15 to 25 percent slopes, eroded
GaC	Gloucester sandy loam, 8 to 15 percent slopes
NaC	Narragansett silt loam, 8 to 15 percent slopes
PbC PbD	Paxton fine sandy loam, 8 to 15 percent slopes Paxton fine sandy loam, 15 to 25 percent slopes

Windham County, Connecticut (Correlated and Published, 1981)

СЬС	Canton and	Charlton fine	e sandy loams	, 8 to 15 p	ercent slopes
HkD	Linetiau au	svollu cadu	loam, 15 to	An namanat	-1000
חאט	minukity yr	averry samuy	ivam, 10 to	to percent	3.0pc3
			8 to 15 perc		
PbD	raxton fine	sandy loam,	15 to 25 per	cent slopes	
WxC	Wondbridge	fine sandy l	oam, 8 to 15	percent slo	nes

Hartford County, Connecticut (Correlated and Published, 1962)

AcB AfB AgB	Acton fine sandy loam, 3 to 8 percent slopes Agawam fine sandy loam, 3 to 8 percent slopes Agawam very fine sandy loam, 3 to 8 percent slopes
BaB BbB BcB BhB BoB BrB BrB2 BtB BxB	Belgrade silt loam, 3 to 8 percent slopes Belgrade silt loam, reddish variant, 3 to 8 percent slopes Berlin silt loam, 3 to 8 percent slopes Birchwood fine sandy loam, 3 to 8 percent slopes Branford silt loam, 3 to 8 percent slopes Broadbrook silt loam, 3 to 8 percent slopes Broadbrook silt loam, 3 to 8 percent slopes, eroded Brookfield fine sandy loam, 3 to 8 percent slopes Buxton silt loam, 3 to 8 percent slopes
CaB CsB CsB2	Charlton fine sandy loam, 3 to 8 percent slopes Cheshire fine sandy loam, 3 to 8 percent slopes Cheshire fine sandy loam, 3 to 8 percent slopes, eroded
EnB EoB EsB EsB2	Elmwood sandy loam, 3 to 8 percent slopes Elmwood very fine sandy loam, 3 to 8 percent slopes Enfield silt loam, 3 to 8 percent slopes Enfield silt loam, 3 to 8 percent slopes, eroded
GcB	Gloucester fine sandy loam, 3 to 8 percent slopes
HdB HfB HkC HnC	Hartford fine sandy loam, 3 to 8 percent slopes Hartford sandy loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 15 percent slopes Hinckley loamy sand, 3 to 15 percent slopes
LoB	Ludlow loam, 3 to 15 percent slopes
McC MgC MhC MmB MnB MrB MyB	Manchester gravelly loam, 3 to 15 percent slopes Manchester gravelly sandy loam, 3 to 15 percent slopes Manchester loamy sand, 3 to 15 percent slopes Melrose sandy loam, 3 to 8 percent slopes Melrose very fine sandy loam, 3 to 8 percent slopes Merrimac fine sandy loam, 3 to 8 percent slopes Merrimac sandy loam, 3 to 8 percent slopes
NaB NaB2 NnB NsB	Narragansett silt loam, 3 to 8 percent slopes Narragansett silt loam, 3 to 8 percent slopes, eroded Ninigret fine sandy loam, 3 to 8 percent slopes Ninigret very fine sandy loam, 3 to 8 percent slopes

PaB PbB PnC PpC PuB	Paxton fine sandy loam, 3 to 15 percent slopes Paxton loam, 3 to 8 percent slopes Penwood loamy sand, 8 to 15 percent slopes Poquonock loamy sand, 8 to 15 percent slopes Poquonock sandy loam, 3 to 8 percent slopes
RaB	Rainbow silt loam, 3 to 8 percent slopes
SvB	Sutton loam, 3 to 8 percent slopes
TsB	Tisbury silt loam, 3 to 8 percent slopes
WeB WgB WkB WkB2 WuC WvC WxB WyB	Wapping silt loam, 3 to 8 percent slopes Watchaug loam, 3 to 8 percent slopes Wethersfield loam, 3 to 8 percent slopes, eroded Windsor loamy coarse sand, 8 to 15 percent slopes Windsor loamy fine sand, 8 to 15 percent slopes Woodbridge loam, 3 to 8 percent slopes Woodbridge loam, reddish substratum, 3 to 8 percent slopes

Litchfield County, Connecticut (Correlated and Published, 1970)

AnB	Amenia silt loam, 3 to 8 percent slopes
BaB BoB BqB	Belgrade silt loam, 3 to 8 percent slopes Branford loam, 3 to 8 percent slopes Bernardston silt loam, 3 to 8 percent slopes
CaB CaB2 CwB	Charlton fine sandy loam, 3 to 8 percent slopes Charlton fine sandy loam, 3 to 8 percent slopes, eroded Copake loam, 3 to 8 percent slopes
DoB	Dover fine sandy loam, 3 to 8 percent slopes
EsB	Enfield silt loam, 3 to 8 percent slopes
GaB GrC	Gloucester sandy loam, 3 to 8 percent slopes Groton gravelly sandy loam, 3 to 15 percent slopes
HbB HeB HkC HmC	Hartland silt loam, 3 to 8 percent slopes Hero loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 15 percent slopes Hinckley gravelly loamy sand, 3 to 15 percent slopes
МуВ	Merrimac sandy loam, 3 to 8 percent slopes
PbB PbB2	Paxton fine sandy loam, 3 to 8 percent slopes Paxton fine sandy loam, 3 to 8 percent slopes, eroded
SnB SnB2 SvB	Stockbridge loam, 3 to 8 percent slopes Stockbridge loam, 3 to 8 percent slopes, eroded Sutton fine sandy loam, 3 to 8 percent slopes
TwB	Tisbury and Sudbury soils, 3 to 8 percent slopes
WvC WxB	Windsor loamy fine sand, 8 to 15 percent slopes Woodbridge fine sandy loam, 3 to 8 percent slopes

Middlesex County, Connecticut (Correlated and Published, 1980)

AfB	Agawam fine sandy loam, 3 to 8 percent slopes
ВоВ	Branford silt loam, 3 to 8 percent slopes
CbB CsB	Canton and Charlton fine sandy loams, 3 to 8 percent slopes Cheshire silt loam, 3 to 8 percent slopes
HfB HkC	Hartford sandy loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 15 percent slopes
LpB	Ludlow silt loam, 3 to 8 percent slopes
MgC MyB	Manchester gravelly sandy loam, 3 to 15 percent slopes Merrimac sandy loam, 3 to 10 percent slopes
РЬВ	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
WkB WxB	Wethersfield loam, 3 to 8 percent slopes Woodbridge fine sandy loam, 3 to 8 percent slopes
YaB	Yalesville fine sandy loam, 3 to 8 percent slopes

New Haven County, Connecticut (Correlated and Published, 1979)

AfB	Agawam fine sandy loam, 3 to 8 percent slopes
BoB BrC	Branford silt loam, 3 to 8 percent slopes Branford-Holyoke silt loams, 3 to 15 percent slopes
CfB CsB	Charlton fine sandy loam, 3 to 8 percent slopes Cheshire fine sandy loam, 3 to 8 percent slopes
HcB HkB	Haven silt loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 8 percent slopes
LpB	Ludlow silt loam, 3 to 8 percent slopes
MgB	Manchester gravelly sandy loam, 3 to 8 percent slopes
РЬВ	Paxton fine sandy loam, 3 to 8 percent slopes
SvB	Sutton fine sandy loam, 3 to 8 percent slopes
WcB WkB WxB	Watchaug fine sandy loam, 3 to 8 percent slopes Wethersfield loam, 3 to 8 percent slopes Woodbridge fine sandy loam, 3 to 8 percent slopes
YaB	Yalesville fine sandy loam, 3 to 8 percent slopes

New London County, Connecticut (Correlated and Published, 1983)

AfB	Agawam fine sandy loam, 3 to 8 percent slopes
BrB	Broadbrook silt loam, 3 to 8 percent slopes
СЬВ	Canton and Charlton fine sandy loams, 3 to 8 percent slopes
HcB HkC	Haven silt loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 15 percent slopes
МуВ	Merrimac sandy loam, 3 to 8 percent slopes
NaB	Narragansett silt loam, 3 to 8 percent slopes
РЬВ	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes
RaB	Rainbow silt loam, 3 to 8 percent slopes
SvB	Sutton fine sandy loam, 3 to 8 percent slopes
WxB	Woodbridge fine sandy loam, 3 to 8 percent slopes

Tolland County, Connecticut (Correlated and Published, 1966)

AbB	Agawam sandy loam, 3 to 8 percent slopes
BhB BrB BtB	Birchwood sandy loam, 3 to 8 percent slopes Broadbrook silt loam, 3 to 8 percent slopes Brookfield fine sandy loam, 3 to 8 percent slopes
CaB CsB	Charlton fine sandy loam, 3 to 8 percent slopes Cheshire fine sandy loam, 3 to 8 percent slopes
EsB EtB	Enfield silt loam, 3 to 8 percent slopes Enfield silt loam, shallow, 3 to 8 percent slopes
GaB	Gloucester sandy loam, 3 to 8 percent slopes
HdB HfB HkC HmC	Hartford fine sandy loam, 3 to 8 percent slopes Hartford sandy loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 15 percent slopes Hinckley gravelly loamy sand, 3 to 15 percent slopes
JaC	Jaffrey gravelly sandy loam and loamy sand, 3 to 15 percent slopes
MgC MhC MrB MyB	Manchester gravelly sandy loam, 3 to 15 percent slopes Manchester gravelly loamy sand, 3 to 15 percent slopes Merrimac fine sandy loam, 3 to 8 percent slopes Merrimac sandy loam, 3 to 8 percent slopes
NaB NrB	Narragansett silt loam, 3 to 8 percent slopes Ninigret sandy loam, 3 to 8 percent slopes
PbB PuB	Paxton fine sandy loam, 3 to 8 percent slopes Poquonock sandy loam, 3 to 8 percent slopes
RaB	Rainbow silt loam, 3 to 8 percent slopes
SvB	Sutton fine sandy loam, 3 to 8 percent slopes
WeB WgB WvC WxB	Wapping silt loam, 3 to 8 percent slopes Watchaug fine sandy loam, 3 to 8 percent slopes Windsor loamy sand, 8 to 15 percent slopes Woodbridge fine sandy loam, 3 to 8 percent slopes

Windham County, Connecticut (Correlated and Published, 1981)

AfB	Agawam fine sandy loam, 3 to 8 percent slopes
СЬВ	Canton and Charlton fine sandy loams, 3 to 8 percent slopes
HkC	Hinckley gravelly sandy loam, 3 to 15 percent slopes
MyB	Merrimac sandy loam, 3 to 8 percent slopes
РЬВ	Paxton fine sandy loam, 3 to 8 percent slopes
SvB	Sutton fine sandy loam, 3 to 8 percent slopes
WxB	Woodbridge fine sandy loam. 3 to 8 percent slopes

Fairfield County, Connecticut (Correlated and Published, 1981)

AfB	Agawam fine sandy loam, 3 to 8 percent slopes
CfB	Charlton fine sandy loam, 3 to 8 percent slopes
GgB	Georgia silt loam, 3 to 8 percent slopes
HcB HkB	Haven silt loam, 3 to 8 percent slopes Hinckley gravelly sandy loam, 3 to 8 percent slopes
МуВ	Merrimac sandy loam, 2 to 8 percent slopes
NeB	Nellis fine sandy loam, 3 to 10 percent slopes
РЬВ	Paxton fine sandy loam, 3 to 8 percent slopes
SnB SvB	Stockbridge loam, 3 to 8 percent slopes Sutton fine sandy loam, 3 to 8 percent slopes
WxB	Woodbridge fine sandy loam, 3 to 8 percent slopes