

Appendix B

Soils



Cover photo: Oak flatwoods on Mark Twain National Forest, USDA Forest Service
Photographer: Paul Nelson

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Soils

Introduction

The purpose of this Appendix is to provide additional information regarding specific soils on the Mark Twain NF.

Riparian Soils

Following is a listing of the soil series on the Mark Twain National Forest that are formed of alluvial material. Use these soil series in determining the extent of the riparian management zone when project level analysis determines these soils are present.

Amagon silt loam	Gladden loam	Pinerun very gravelly silt loam
Ashton silt loam	Hartville silt loam	Pope fine sandy loam
Atkins loam	Haymond silt loam	Possumtrot fine sandy loam
Auxvasse silt loam	Hercules gravelly loam	Racket silt loam
Batcave gravelly loam	Higdon silt loam	Raccoon silt loam
Bearthicket silt loam	Hontas silt loam	Raftville silt loam
Belknap silt loam	Horsecreek silt loam	Razort silt loam
Bloomsdale silt loam	Huntington silt loam	Relfe very gravelly loam
Britwater gravelly silt loam	Huzzah silt loam	Riverwash (not an actual series name)
Calhoun silt loam	Jamesfin silt loam	Sandbur fine sandy loam
Cedargap gravelly silt loam	Kaintuck fine sandy loam	Secesh loam
Dameron silt loam	Kickapoo fine sandy loam	Spitlimb silt loam
Dapue silt loam	Kobel silty clay	Stultz very cobbly loam
Deible silt loam	Landes fine sandy loam	Tanglenook silt loam
Dunning silty clay loam	Lostpond silt loam	Tilk very gravelly coarse sandy loam
Elk silt loam	Melvin silt loam	Waben very gravelly silt loam
Elkins silt loam (series was made inactive in 1979)	Midco cherty loam	Wakeland silt loam
Elsah silt loam	Moniteau silt loam	Westerville silt loam
Farewell silt loam	Newark silt loam	Wideman fine sand
Freeburg silt loam	Nolin silt loam	Wiota silty clay loam
Gabriel silt loam	Perche loam	Zanoni fine sandy loam

Highly Compactable Soils

Following is a listing of the soil series on the Mark Twain National Forest that have the potential to be highly compactable. Implement standards and guidelines created for highly compactable soils when project level analysis determines these soils are present.

Aaron silt loam	Caneyville silt loam	Fanchon silt loam
Adler silt loam	Captina silt loam	Firebaugh silt
Alluvial land	Carr fine sandy loam	Foley silt loam
Alred	Cedargap silt loam (variant)	Fourche silt loam
Amagon silt loam	Claiborne silt loam	Freeburg silt loam
Armster loam	Clarksville	Frenchmill very cobbly silt loam
Armstrong loam	Cornwall silt loam	Gabriel silt loam
Ashton silt loam	Coulstone/Bender/Gatewood	Gasconade
Aslinger silt loam	Courtois silt loam	Gatewood
Auxvasse silt loam	Credon silt loam	Gepp cherty silt loam
Bado silt loam	Crider silt loam	Gerald silt loam
Bardley gravelly silt loam	Crowley silt loam	Gladden loam
Bearthicket silt loam	Dameron silt loam	Glensted silt loam
Beemont gravelly silt loam	Dapue silt loam	Gorin silt loam
Belknap silt loam	Deible silt loam	Gosport silt loam
Bloomsdale silt loam	Delassus silt loam	Goss gravelly silt loam
Blueye gravelly silt loam	Doniphan very cherty silt loam	Grable very fine sandy loam
Bolivar fine sandy loam	Dubbs silt loam	Grandgulf silt loam
Booker silty clay	Dunning	Gravois silt loam
Branson silt loam	Dupo silt loam	Gressy/Viraton silt loams
Britwater gravelly silt loam	Egyptgrove gravelly silt loam	Gunlock silt loam
Broseley loamy fine sand	Elk silt loam	Hailey gravelly silt loam/Nixa gravelly silt loam
Brussels	Elkins silt loam	Hartville silt loam
Calhoun silt loam	Elsah silt loam	Hassler- Hassler silt loam/Syenite
Calwoods silt loam	Eudy silt loam	Hatton silt loam
Haymond silt loam	Lowell silt loam	Sandbur fine sandy loam
Hercules gravelly loam	Macedonia silt loam	Scholten
Higdon silt loam	Mano	Secesh (various)
Hildebrecht silt loam	Marion silt loam	Sharon silt loam
Hoberg silt loam	Marquand silt loam	Skrainka silt loam
Hobson loam	Melvin silt loam	Snead silty clay loam
Hodge fine sandy loam	Menfro silt loam	Soncac very cobbly silt loam
Hogcreek silt loam	Mexico silt loam	Sowcoon silt loam
Hontas silt loam	Midco cherty loam	Splitlimb silt loam
Hootentown silt loam	Minnith silt loam	Sturkie silt loam
Horneybuck silt loam	Moko	Swiss gravelly silt loam

Horsecreek silt loam	Moniteau silt loam	Syenite silt loam
Houlka silty clay loam	Mudlick/Irondale/Killarney	Tanglenook silt loam
Huntington silt loam	Needleye silt loam	Taterhill silt loam
Huzzah silt loam	Nevin silty clay loam	Taumsauk very cobbly silt loam
Irondale very cobbly loam	Newark silt loam	Tiff cobbly clay (at lower rock contents)
Jamesfin silt loam	Nicholson silt loam	Tonti
Jerktail silt loam	Nixa very gravelly silt loam	Topazmill
Jonca silt loam	Nolin silt loam	Trackler silt loam
Kaintuck (various)	Oakimeter	Tuckerman loam
Keeno very gravelly silt loam	Ocie gravelly silt loam	Union silt loam
Kenaga/Egyptgrove/Tonti	Opequon silty clay (can be very rocky)	Useful silt loam
Keswick silt loam	Parson/Carytown/Barden silt loams	Viburnum silt loam
Kickapoo fine sandy loam	Pembroke silt loam	Viraton silt loam
Killarney very cobbly silt loam	Peridge silt loam	Wabash silty clay
Knobtop silt loam	Plato silt loam	Wakeland silt loam
Kobel clay	Pomme silt loam	Waldron silty clay
Lafe silt loam	Pope fine sandy loam	Wasola silt loam
Lamotte silt loam	Portia sandy loam	Weingarten silt loam
Landes loam	Poynor gravelly silt loam	Weller silt loam
Lebanon silt loam	Putnam silt loam	Westerville silt loam
Lecoma silt loam	Racket silt loam	Wideman
Leta silty clay loam	Racoon silt loam	Wilbur silt loam
Lily loam	Raftville silt loam	Wilderness gravelly silt loam
Lindley loam	Razort silt loam	Winfield silt loam
Loring silt loam	Reuter ashy sandy loam	Winnipeg silt loam
Lostpond silt loam	Rosati silt loam	Wiota silt loam
Loughboro silt loam	Roselle silt loam	Wrenagate silt loam
Lowassie silt loam	Ross silt loam	Yelton silt loam
		Zanoni fine sandy loam

Highly Erodible Soils

Following is a listing of the soil series on the Mark Twain National Forest that have the potential to be highly erodible. Implement standards and guidelines created for highly erodible soils when project level analysis determines these soils are present.

Very Highly Erodible Soils

Soil Mapping Unit	% Slope
Brussels-Rock outcrop	50 – 90 %
Brussels-Gasconade-Rock outcrop	30 – 90 %, very bouldery
Gasconade-Rock outcrop complex	50 – 90 %
Lenzburg Channery silty clay loam	10– 70 %
Moko-Rock outcrop complex	50 – 90 %, extremely stony
Rock outcrop – Moko	50 – 95 %

Highly Erodible Soils

Soil Mapping Unit	% Slope
Alred-Wrengart	14 – 35 %
Bender – Poynor	15 – 50 %
Bender –rock outcrop complex	35 – 65 %, extremely stony
Bender-Alred-Rock outcrop	15 – 60 %
Borrow pits	all
Clarksville very cherty silt loam or very gravelly silt loam	30 % and up
Clarksville-Doniphan or Baxter	30 – 50 %
Clarksville-Rock outcrop-Moko	35 - 60 %
Clarksville-Scholten	15 – 45 %, very stony
Clickenbeard-Gasconade-Rock outcrop	35 – 70 %, extremely stony
Coulstone very gravelly silt loam	35 – 60 %
Coulstone-Clarksville	30 – 50 %
Coulstone-Clarksville-Rock land	35 – 60 %
Gasconade	35 – 50 %
Gepp-Rock outcrop	35 – 60 %
Knobby-Rock outcrop-Bardley	35 – 65 %
Hailey-Rock outcrop-Moko	35 – 60 %
Menfro silt loam	20 – 45 %
Mine spoils	all
Moko	50 – 80 %
Ocie-Gatewood complex	15 – 50 %
Opequon rocky silty clay loam	35 – 60 %
Poynor cherty silt loam	35 – 60 %
Rochefort-Bonnefemme complex	25 – 40 %
Rock outcrop	35 – 60 %
Rock outcrop-Gasconade	30 % and up
Rueter very gravelly silt loam	35 – 65 %, very stony
Rueter-Bardley	35 – 60 %
Rueter-Hailey complex	35 – 60 %
Rueter-Gasconade-rock outcrop	35 – 60 %
Sonsac – Rueter	35 – 70 %, very rocky
Taumsaukk-Irondale-rock outcrop	15 – 45 %
Tick extremely silt loam	15 – 50 %, stony
Winfield silt loam, karst	14 – 45 %
Winnegan loam	20 – 35 %

Fragipan Soils

Following is a listing of the soil series on the Mark Twain National Forest that are fragipans. Implement standards and guidelines created for fragipan soils when project level analysis determines these soils are present.

Bado silt loam	Hobson loam	Plato silt loam
Captina silt loam	Hogcreek silt loam	Rosati silt loam
Celt silt loam	Jonca silt loam	Scholten gravelly silt loam
Creldon silt loam	Keeno gravelly silt loam	Tonti gravelly silt loam
Delassus silt loam	Lebanon silt loam	Union silt loam
Gerald silt loam	Needleye silt loam	Viraton silt loam
Hildebrecht silt loam	Nicholson silt loam	Wilderness gravelly silt loam
Hoberg silt loam	Nixa very gravelly silt loam	Yelton silt loam

