

APPENDIX D

SOUTH DAKOTA SOIL SERIES INFORMATION

Soil Associations

Big Stone South to Ellendale 345-kV Project

Association	Acres in ROW	Percent of ROW	Series	Parent Material	Drainage	Slope (percent)
ABERDEEN-HARMONY-BEOTIA (SD146)	94.9	3.39%	Aberdeen	glacial lacustrine sediments on lake plains	moderately well drained	0 to 2
			Harmony	lacustrine sediments on lake plains	moderately well drained	0 to 2
			Beotia	silty glaciolacustrine deposits on lake plains	well drained or moderately well drained	0 to 6
BARNES-KRANZBURG-BROOKINGS (SD126)	194.8	6.96%	Barnes	loamy till	well drained	0 to 25
			Kranzburg	loess overlying glacial till on uplands	well drained	0 to 9
			Brookings	loess overlying glacial till on footslopes and in swales	moderately well drained	0 to 6
BARNES-SVEA-TONKA (SD149)	474.2	16.96%	Barnes	loamy till	well drained	0 to 25
			Svea	calcareous till and local alluvium from the till	well or moderately well drained	0 to 25
			Tonka	local alluvium over till or glaciolacustrine deposits in closed basins and depressions on till and glacial lake plains	poorly drained, slowly permeable	0 to 1
BEARDEN-GREAT BEND-OVERLY (SD145)	304.6	10.89%	Bearden	calcareous silt loam and silty clay loam lacustrine sediments	somewhat poorly drained, moderately to slowly permeable soils	0 to 3
			Great Bend	glaciolacustrine sediments on lake plains	well drained soils	0 to 15
			Overly	calcareous sediments	well drained or moderately well drained	0 to 15
EGAN-HUNTIMER-WORTHING (SD119)	75.2	2.69%	Egan	silty sediments overlying glacial till on uplands	well drained	0 to 15
			Huntimer	clayey glaciolacustrine sediments on uplands	well drained	0 to 6
			Worthing	clayey alluvial sediments in upland depressions on till plains	poorly and very poorly drained	0 to 1
FORDVILLE-RENSHAW-SOUTHAM (SD128)	276.8	9.90%	Fordville	loamy sediments over sand and gravel on outwash plains and terraces	well drained	0 to 9
			Renshaw	loamy sediments and the underlying sand and gravel on outwash plains and terraces	somewhat excessively drained	0 to 25
			Southam	local alluvium from glacial drift	very poorly drained, slowly permeable	0 to 1
FORMAN-AASTAD-BARNES (SD137)	54.0	1.93%	Forman	calcareous till	well drained, moderately slowly permeable	0 to 30
			Aastad	calcareous till on moraines and till plains	moderately well drained	0 to 6
			Barnes	loamy till	well drained	0 to 25
FORMAN-AASTAD-BUSE (SD135)	192.6	6.89%	Forman	calcareous till	well drained, moderately slowly permeable	0 to 30
			Aastad	calcareous till on moraines and till plains	moderately well drained	0 to 6
			Buse	loamy glacial till on moraines	well drained	3 to 60
FORMAN-BUSE-SOUTHAM (SD134)	446.4	15.96%	Forman	calcareous till	well drained, moderately slowly permeable	0 to 30
			Buse	loamy glacial till on moraines	well drained	3 to 60
			Southam	local alluvium from glacial drift	very poorly drained, slowly permeable	0 to 1
HEIMDAL-SISSETON-SVEA (SD138)	32.9	1.18%	Heimdal	calcareous glacial till on glacial till plains and moraines	well drained, moderately permeable	0 to 40
			Sisseton	calcareous, stratified, loamy and silty glacial drift on uplands	well drained	2 to 40
			Svea	calcareous till and local alluvium from the till	well or moderately well drained	0 to 25
LUDDEN-LAMOURE-LADELLE (SD139)	67.0	2.40%	Ludden	clayey alluvium	poorly or very poorly drained, slowly permeable	0 to 1
			Lamoure	silty alluvium on flood plains	somewhat poorly drained or poorly drained	0 to 2
			LaDelle	alluvium on terraces and flood plains	moderately well drained	0 to 9
LUDDEN-RYAN-LADELLE (SD152)	86.5	3.09%	Ludden	clayey alluvium	poorly or very poorly drained, slowly permeable	0 to 1
			Ryan	alkaline clayey sediments	poorly drained, very slowly permeable	0 to 1
			LaDelle	alluvium on terraces and flood plains	moderately well drained	0 to 9
PEEVER-FORMAN-TONKA (SD136)	237.6	8.50%	Peever	glacial till on uplands	well drained	0 to 9
			Forman	calcareous till	well drained, moderately slowly permeable	0 to 30
			Tonka	local alluvium over till or glaciolacustrine deposits in closed basins and depressions on till and glacial lake plains	poorly drained, slowly permeable	0 to 1
POINSETT-WAUBAY-SINAI (SD130)	114.3	4.09%	Poinsett	silty glacial drift on uplands	well drained	0 to 15
			Waubay	silty glacial drift	moderately well drained	0 to 6
			Sinai	glaciolacustrine sediments on uplands	moderately well drained and well drained	0 to 9
VIENNA-LISMORE-KRANZBURG (SD111)	144.7	5.17%	Vienna	silty and loamy loess over loamy glacial till on uplands	well drained soils	0 to 15
			Lismore	silty sediments over glacial till on uplands	moderately well drained	0 to 6
			Kranzburg	loess overlying glacial till on uplands	well drained	0 to 9