Steele County, North Dakota
Soil Irrigation Groups

Map Unit Symbol	Map Unit Name	Soil Component	Percent Composition	Kw	*Upper Slope Limit	**Irrigation Group
9	Aberdeen silty clay loam	Aberdeen	84	0.28	1	11c
43	Antler clay loam	Antler	90	0.32	1	15c
64	Arveson loam	Arveson	85	0.24	1	19c
76	Arvilla sandy loam, 0 to 6 percent slopes	Arvilla	72	0.2	6	3i
118	Barnes-Buse loams, 3 to 6 percent slopes	Barnes	41	0.24	6	8c
		Buse	38	0.28	6	8c
120	Barnes-Buse loams, 6 to 9 percent slopes	Barnes	37	0.24	9	23n
		Buse	42	0.28	9	23n
156	Barnes-Svea loams, 3 to 6 percent slopes	Barnes	53	0.24	6	8c
		Svea	33	0.28	6	8c
189	Bearden-Perella silty clay loams	Bearden	62	0.28	1	15c
		Perella	20	0.28	1	15c
296	Brantford loam, 0 to 3 percent slopes	Brantford	76	0.28	3	5i
314	Buse-Barnes loams, 9 to 15 percent slopes	Barnes	24	0.24	15	23n
		Buse	52	0.28	15	23n
319	Buse-Barnes loams, 15 to 35 percent slopes	Barnes	24	0.24	25	23n
		Buse	52	0.28	35	23n
391	Cavour-Cresbard loams, 0 to 3 percent slopes	Cavour	36	0.37	3	24n
		Cresbard	38	0.32	3	11c
450	Colvin silt loam	Colvin	79	0.28	1	15c
452	Colvin silt loam, saline	Colvin	81	0.37	1	25n
511	Divide loam, 0 to 3 percent slopes	Divide	74	0.24	3	16c
539	Edgeley loam, 0 to 3 percent slopes	Edgeley	78	0.32	3	12c
569	Embden fine sandy loam	Embden	81	0.2	1	4i
579	Embden-Egeland fine sandy loams, 1 to 6 percent slopes	Egeland	34	0.2	6	4i
		Embden	41	0.2	6	4i
597	Emrick-Heimdal loams, 0 to 3 percent slopes	Emrick	45	0.28	3	7i
		Heimdal	41	0.28	3	7i
605	Esmond-Heimdal loams, 9 to 15 percent slopes	Esmond	44	0.28	15	23n
		Heimdal	24	0.28	15	23n
753	Fram-Wyard loams, 0 to 3 percent slopes	Fram	63	0.28	3	17c
		Wyard	27	0.28	1	15c
763	Gardena loam, 0 to 3 percent slopes	Gardena	79	0.24	3	7i
781	Gilby loam	Gilby	69	0.28	1	15c
796	Glyndon loam	Glyndon	85	0.28	1	17c
866	Balaton-Wyard loams, 3 to 6 percent slopes	Hamerly	76	0.24	6	15c
881	Hamerly-Tonka complex, 0 to 3 percent slopes	Hamerly	40	0.24	3	15c

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		Tonka	38	0.37	1	22c
884	Hamerly-Wyard loams, 0 to 3 percent slopes	Hamerly	53	0.24	3	15c
		Wyard	33	0.28	3	15c
988	Heimdal-Emrick loams, 3 to 6 percent slopes	Emrick	28	0.28	6	7i
		Heimdal	58	0.28	6	7i
998	Heimdal-Esmond loams, 6 to 9 percent slopes	Esmond	32	0.28	9	9c
		Heimdal	40	0.28	9	7i
1031	Kratka fine sandy loam	Kratka	55	0.17	1	20c
1057	LaDelle silt loam, 0 to 3 percent slopes	Ladelle	85	0.28	3	8c
1062	LaDelle silty clay loam, 0 to 3 percent slopes	Ladelle	76	0.28	3	8c
1092	Lankin loam	Lankin	78	0.28	1	8c
1221	Maddock-Hecla loamy fine sands, 1 to 6 percent slopes	Hecla	26	0.17	3	3i
		Maddock	48	0.17	6	3i
1267	Marysland loam	Marysland	83	0.28	1	16c
1404	Overly silty clay loam, 0 to 3 percent slopes	Overly	80	0.28	3	8c
1427	Parnell silty clay loam	Parnell	81	0.37	1	27n
1466	Pits, gravel and sand	Pits	90	0.1	60	23n
1710	Southam silty clay loam, 0 to 1 percent slopes	Southam	86	0.37	1	27n
1762	Barnes-Svea loams, 0 to 3 percent slopes	Barnes	33	0.24	3	8c
		Svea	52	0.28	3	8c
1765	Svea-Buse-Tonka loams, 3 to 6 percent slopes	Buse	35	0.28	6	9c
		Svea	40	0.28	6	8c
1766	Svea-Buse-Tonka complex, 6 to 9 percent slopes	Buse	43	0.28	9	23n
		Svea	35	0.28	9	23n
1769	Svea-Cresbard loams, 0 to 3 percent slopes	Cresbard	36	0.32	3	11c
		Svea	34	0.28	3	8c
1780	Swenoda fine sandy loam	Swenoda	80	0.2	1	14c
1883	Vallers, saline-Parnell complex, 0 to 1 percent slopes	Parnell	33	0.37	1	27n
		Vallers	41	0.28	1	25n
1886	Vallers and Hamerly loams, saline, 0 to 3 percent slopes	Hamerly	37	0.28	3	25n
		Vallers	37	0.24	1	25n
2121	Miranda loam, 0 to 3 percent slopes	Miranda	57	0.32	3	24n
2151	Binford-Coe sandy loams, 0 to 6 percent slopes	Binford	40	0.2	6	3i
		Coe	42	0.2	6	1i
2152	Coe-Binford complex, 6 to 25 percent slopes	Binford	23	0.2	25	23n
		Coe	51	0.15	25	23n
2153	Edgeley-Kloten-Esmond complex, 9 to 35 percent slopes	Edgeley	52	0.32	35	23n

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		Esmond	10	0.28	35	23n
2153	Edgeley-Kloten-Esmond complex, 9 to 35 percent slopes	Kloten	23	0.32	35	23n
2154	Glyndon-Tiffany loams	Glyndon	55	0.28	1	17c
		Tiffany	24	0.28	1	19c
2155	Hecla loamy fine sand	Hecla	62	0.17	1	3i
2156	Lamoure and Rauville silt loams	Lamoure	60	0.28	1	15c
		Rauville	28	0.28	1	27n
2157	Maddock-Esmond-Embden complex, 6 to 15 percent slopes	Embden	9	0.2	15	4i
		Esmond	20	0.28	15	23n
		Maddock	44	0.17	15	23n
2158	Velva fine sandy loam, 0 to 6 percent slopes	Velva	84	0.2	6	4i
2159	Walsh silty clay loam, 1 to 6 percent slopes	Walsh	69	0.28	6	8c
2160	Wyndmere-Tiffany complex, silty substratum	Tiffany	32	0.28	1	19c
		Wyndmere	50	0.2	1	20c
2161	Zell-Overly silt loams, 6 to 9 percent slopes	Overly	31	0.32	9	23n
		Zell	47	0.32	9	23n
2162	Zell-Overly silt loams, 9 to 25 percent slopes	Overly	29	0.32	15	23n
		Zell	50	0.32	25	23n
2163	Antler clay loam, saline	Antler	84	0.28	1	25n

* Actual field slope limit may be less then soil mapping unit upper slope limit. A lower upper slope limit can be used to determine Water Erosion Slope Hazard if verified in the field. Refer to the "Water Erosion Slope Hazard for Irrigation" in the ND Irrigation Guide for Maximum slope allowed by surface texture.

** Irrigation Group assigned for conventional tillage using Water Erosion Slope Hazard (RV slope x Kw) <2.0 and undrained phase for poorly or very poorly drained soil components. Refer to the North Dakota Irrigation Guide for irrigation group assignment if assessing a perennial or no-till cropping system or drained phase of a poorly or very poorly drained soil component.