Billings County, North Dakota
Soil Irrigation Groups

Map Unit Symbol	Map Unit Name	Soil Component	Percent Composition	Kw	*Upper Slope RV	**Irrigation Group
3	Peta loam, 0 to 2 percent slopes	Peta	68	0.28	2	7i
5	Savage silty clay loam, 0 to 2 percent slopes	Savage	61	0.32	2	10c
5B	Savage silty clay loam, 2 to 6 percent slopes	Savage	67	0.32	6	23n
6	Regan silt loam, 0 to 2 percent slopes	Regan	64	0.32	2	15c
7	Arnegard loam, 0 to 2 percent slopes	Arnegard	68	0.24	2	7i
9F	Cabba-Sen-Chama silt loams, 15 to 70 percent slopes	Cabba	45	0.32	70	23n
		Chama	15	0.32	45	23n
		Sen	18	0.32	25	23n
12B	Rhoades-Daglum complex, 0 to 6 percent slopes	Daglum	33	0.32	6	24n
		Rhoades	55	0.32	6	24n
13B	Dogtooth-Janesburg silt loams, 0 to 6 percent slopes	Dogtooth	59	0.28	6	24n
		Janesburg	27	0.28	6	24n
13D	Dogtooth-Janesburg complex, 6 to 15 percent slopes	Dogtooth	37	0.28	15	23n
		Janesburg	37	0.28	15	23n
14E	Amor-Brandenburg complex, 3 to 25 percent slopes	Amor	20	0.24	15	23n
		Brandenburg	39	0.24	25	23n
15B	Daglum-Rhoades complex, 0 to 6 percent slopes	Daglum	50	0.32	6	24n
		Rhoades	25	0.32	6	24n
17	Amor-Arnegard loams, 0 to 3 percent slopes	Amor	58	0.24	3	12c
		Arnegard	10	0.24	3	7i
17B	Amor-Shambo loams, 3 to 6 percent slopes	Amor	67	0.24	6	12c
		Shambo	15	0.28	6	7i
17C	Amor-Cabba loams, 6 to 9 percent slopes	Amor	39	0.24	9	23n
		Cabba	29	0.32	9	23n
17D	Amor-Cabba loams, 9 to 15 percent slopes	Amor	42	0.24	15	23n
		Cabba	29	0.32	15	23n
18E	Manning-Schaller-Wabek complex, 6 to 25 percent slopes	Manning	24	0.2	15	23n
		Schaller	22	0.2	25	23n
		Wabek	22	0.2	25	23n
19	Sen-Golva silt loams, 0 to 3 percent slopes	Golva	11	0.32	3	12c
		Sen	56	0.32	3	8c
19B	Chama-Sen-Cabba silt loams, 3 to 6 percent slopes	Cabba	14	0.32	6	23n
		Chama	43	0.32	6	12c
		Sen	25	0.32	6	12c
19C	Chama-Cabba-Sen silt loams, 6 to 9 percent slopes	Cabba	28	0.32	9	23n
		Chama	40	0.32	9	23n
		Sen	17	0.32	9	23n

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19D	Cabba-Chama-Sen silt loams, 9 to 15 percent slopes	Cabba	38	0.32	15	23n
		Chama	26	0.32	15	23n
		Sen	16	0.32	15	23n
21B	Parshall fine sandy loam, 0 to 6 percent slopes	Parshall	67	0.2	6	4i
22B	Regent-Savage silty clay loams, 3 to 6 percent slopes	Regent	71	0.32	6	12c
		Savage	15	0.32	6	10c
24B	Janesburg fine sandy loam, 0 to 6 percent slopes	Janesburg	51	0.2	6	24n
25B	Lefor fine sandy loam, 0 to 6 percent slopes	Lefor	78	0.2	6	13c
27F	Badland, outcrop-Lambert-Cabba complex, 6 to 50 percent slopes	Badland	42	0.43	150	23n
		Cabba	12	0.32	50	23n
		Lambert	34	0.37	15	23n
28F	Flasher-Rock outcrop-Vebar complex, 9 to 70 percent slopes	Flasher	35	0.17	70	23n
		Vebar	13	0.2	50	23n
29F	Arikara-Shambo-Cabba loams, 9 to 70 percent slopes	Arikara	33	0.02	70	23n
		Cabba	18	0.32	70	23n
		Shambo	21	0.28	35	23n
30F	Vebar-Amor complex, 6 to 35 percent slopes, extremely stony	Amor	21	0.24	15	23n
		Vebar	27	0.2	35	23n
31B	Sen-Janesburg silt loams, 0 to 6 percent slopes	Janesburg	34	0.28	6	12c
		Sen	25	0.32	6	24n
31C	Sen-Janesburg silt loams, 6 to 9 percent slopes	Janesburg	21	0.28	9	23n
		Sen	22	0.32	9	23n
35F	Flasher-Vebar-Parshall complex, 9 to 35 percent slopes	Flasher	35	0.17	35	23n
		Parshall	15	0.2	15	23n
		Vebar	22	0.2	35	23n
36B	Ekalaka-Parshall-Desart fine sandy loams, 0 to 6 percent slopes	Desart	15	0.24	6	24n
		Ekalaka	32	0.24	6	24n
		Parshall	32	0.2	6	4i
37B	Farfeld-Cedarpan loams, 0 to 6 percent slopes	Cedarpan	27	0.32	6	12c
		Farfeld	39	0.32	6	12c
37F	Cedarpan-Slickspots, stony-Farfeld complex, 3 to 35 percent slopes	Cedarpan	25	0.32	35	23n
		Farfeld	10	0.32	6	23n
		Slickspots	24	0.32	25	23n
41C	Wayden-Moreau silty clays, 3 to 9 percent slopes	Moreau	15	0.28	9	23n
		Wayden	58	0.28	9	23n
42B	Searing-Ringling loams, 0 to 6 percent slopes	Ringling	19	0.17	6	1i
		Searing	60	0.28	6	12c

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43	Belfield-Grail silty clay loams, 0 to 2 percent slopes	Belfield	49	0.37	2	11c
		Grail	26	0.37	2	10c
44	Shambo loam, 0 to 2 percent slopes	Shambo	48	0.28	2	7i
44B	Shambo loam, 2 to 6 percent slopes	Shambo	59	0.28	6	7i
47	Stady loam, 0 to 3 percent slopes	Stady	41	0.28	3	6i
48B	Manning fine sandy loam, 0 to 6 percent slopes	Manning	66	0.2	6	3i
49B	Lihen-Parshall complex, 0 to 6 percent slopes	Lihen	38	0.17	6	3i
		Parshall	15	0.2	6	4i
51B	Janesburg-Dogtooth silt loams, 0 to 6 percent slopes	Dogtooth	29	0.28	6	24n
		Janesburg	40	0.28	6	24n
52	Heil silt loam, 0 to 1 percent slopes	Heil	84	0.37	1	24n
53B	Savage-Daglum silt loams, 0 to 6 percent slopes	Daglum	24	0.32	6	24n
		Savage	25	0.32	6	10c
54	Straw loam, channeled, 0 to 2 percent slopes	Straw	40	0.32	2	28n
55	Pits, gravel and sand	Pits, Gravel Anc	85	0.1	60	23n
57	Straw-Rhoades-Daglum silt loams, 0 to 2 percent slopes	Daglum	12	0.32	2	24n
		Rhoades	21	0.32	2	24n
		Straw	28	0.32	2	7i
58	Straw loam, 0 to 2 percent slopes	Straw	67	0.32	2	7i
60	Korell silt loam, 0 to 2 percent slopes	Korell	75	0.32	2	8c
62F	Dogtooth-Janesburg-Brandenburg complex, 9 to 35 percent slopes	Brandenburg	18	0.24	35	23n
		Dogtooth	23	0.28	25	23n
		Janesburg	23	0.28	25	23n
63F	Dogtooth-Janesburg-Cabba complex, 6 to 30 percent slopes	Cabba	20	0.32	30	23n
		Dogtooth	33	0.28	25	23n
		Janesburg	22	0.28	25	23n
65	Banks-Trembles fine sandy loams, channeled, 0 to 2 percent slopes	Banks	29	0.2	2	28n
		Trembles	18	0.2	2	28n
66B	Stady loam, 3 to 6 percent slopes	Stady	50	0.28	6	6i
67B	Evridge-Desart-Telfer fine sandy loams, 0 to 6 percent slopes	Desart	18	0.24	6	24n
		Evridge	28	0.24	6	24n
		Telfer	13	0.24	6	7i
68F	Cabbart-Badland, outcrop complex, 6 to 70 percent slopes	Badland	27	0.43	150	23n
		Cabbart	41	0.37	70	23n
69F	Patent-Badland, outcrop-Cabbart complex, 6 to 50 percent slopes	Badland	21	0.43	150	23n
		Cabbart	21	0.37	50	23n
		Patent	33	0.32	15	23n

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Map Unit Symbol	Map Unit Name	Soil Component	Percent Composition	Kw	*Upper Slope RV	**Irrigation Group
70B	Maltese-Gerda complex, 0 to 6 percent slopes	Gerda	30	0.32	6	24n
		Maltese	39	0.32	6	24n
71B	Chinook-Rhame fine sandy loams, 1 to 6 percent slopes	Chinook	42	0.2	6	4i
		Rhame	28	0.2	6	13c
71D	Rhame-Chinook fine sandy loams, 6 to 15 percent slopes	Chinook	32	0.2	15	23n
		Rhame	42	0.2	15	23n
72F	Rhame-Fleak complex, 9 to 50 percent slopes	Fleak	27	0.17	50	23n
		Rhame	29	0.2	50	23n
73D	Gerda-Kirby complex, 1 to 15 percent slopes	Gerda	16	0.32	9	23n
		Kirby	23	0.1	15	23n
74	Glendive and Havre soils, channeled, 0 to 3 percent slopes	Glendive	35	0.2	3	28n
		Havre	18	0.37	3	28n
75	Havre silt loam, 0 to 3 percent slopes	Havre	77	0.37	3	9c
76B	Lonna silt loam, 1 to 6 percent slopes	Lonna	87	0.37	6	9c
76C	Lonna silt loam, 6 to 9 percent slopes	Lonna	64	0.37	9	23n
77	Glendive fine sandy loam, 0 to 3 percent slopes	Glendive	70	0.2	3	4i
78B	Hanly fine sandy loam, 0 to 6 percent slopes	Hanly	81	0.24	6	3i
79C	Zeona loamy fine sand, 1 to 9 percent slopes	Zeona	76	0.17	9	2i
80	Ethridge silt loam, 1 to 3 percent slopes	Ethridge	64	0.43	3	10c
81B	Vebar-Parshall fine sandy loams, 0 to 6 percent slopes	Parshall	19	0.2	6	4i
		Vebar	46	0.2	6	13c
81C	Vebar-Tally fine sandy loams, 6 to 9 percent slopes	Tally	32	0.2	9	23n
		Vebar	34	0.2	9	23n
81D	Vebar-Flasher-Tally complex, 9 to 15 percent slopes	Flasher	16	0.17	15	23n
		Tally	15	0.2	15	23n
		Vebar	32	0.2	15	23n
82E	Badland, outcrop-Patent complex, 6 to 25 percent slopes	Badland	54	0.43	150	23n
		Patent	25	0.32	15	23n
83	Badland	Badland	88	0.43	150	23n
85F	Lonna-Cabbart silt loams, 6 to 35 percent slopes	Cabbart	33	0.37	35	23n
		Lonna	34	0.37	15	23n
86F	Kirby-Badland, outcrop-Patent complex, 9 to 70 percent slopes	Badland	23	0.43	150	23n
		Kirby	39	0.1	70	23n
		Patent	13	0.32	25	23n
88	Littlemo-Chanta complex, 0 to 3 percent slopes	Chanta	20	0.28	3	6i
		Littlemo	58	0.32	3	6i
89B	Patent loam, 1 to 6 percent slopes	Patent	80	0.32	6	25n

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Map Unit Symbol	Map Unit Name	Soil Component	Percent Composition	Kw	*Upper Slope RV	**Irrigation Group
91F	Lonna-Kirby-Cabbart complex, 3 to 50 percent slopes	Cabbart	16	0.37	50	23n
		Kirby	34	0.1	50	23n
		Lonna	35	0.37	25	23n
92B	Kremlin-Ethridge-Gerda complex, 1 to 6 percent slopes	Ethridge	22	0.43	6	10c
		Gerda	19	0.32	6	24n
		Kremlin	26	0.37	6	7i
94F	Kirby-Arikara-Badland, outcrop complex, 15 to 70 percent slopes	Arikara	27	0.02	70	23n
		Badland	16	0.43	150	23n
		Kirby	42	0.1	70	23n
95F	Tinsley-Chanta complex, 6 to 35 percent slopes	Chanta	17	0.28	15	23n
		Tinsley	53	0.1	35	23n
97	Kremlin loam, 0 to 3 percent slopes	Kremlin	77	0.37	3	7i
98	Wolf Point silty clay loam, 0 to 1 percent slopes	Wolf Point	85	0.37	1	21c
99F	Badland, outcrop-Cabbart complex, 6 to 70 percent slopes	Badland	63	0.43	150	23n
		Cabbart	30	0.37	70	23n
100C	Patent-Gullied land-Glendive complex, 1 to 9 percent slopes	Glendive	13	0.2	6	4i
		Gullied Land	19	0.37	99	23n
		Patent	32	0.32	9	25n
101F	Boxwell-Cabbart-Arikara complex, 9 to 50 percent slopes	Arikara	16	0.02	50	23n
		Boxwell	34	0.37	50	23n
		Cabbart	32	0.37	50	23n
102B	Boxwell-Kremlin loams, 1 to 6 percent slopes	Boxwell	46	0.37	6	12c
		Kremlin	43	0.37	6	7i
102D	Boxwell-Kremlin loams, 6 to 15 percent slopes	Boxwell	38	0.37	15	23n
		Kremlin	28	0.37	15	23n
103F	Badland, outcrop-Arikara-Cabbart complex, 15 to 70 percent slopes	Arikara	28	0.02	70	23n
		Badland	30	0.43	150	23n
		Cabbart	16	0.37	70	23n
105	Harriet silt loam, 0 to 2 percent slopes	Harriet	80	0.37	2	24n
106	Riverwash	Riverwash	85	0.15	1	28n
107D	Rhame-Kremlin-Maltese complex, 1 to 15 percent slopes	Kremlin	16	0.37	15	23n
		Maltese	15	0.32	9	23n
		Rhame	23	0.2	15	23n
108D	Boxwell-Scairt-Maltese complex, 6 to 15 percent slopes	Boxwell	27	0.37	15	23n
		Maltese	14	0.32	15	23n
		Scairt	18	0.32	15	23n
109F	Rhame-Arikara-Fleak complex, 9 to 50 percent slopes	Arikara	23	0.02	50	23n

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		Fleak	16	0.17	50	23n
		Rhame	24	0.2	50	23n
110C	Patent-Gerda-Slickspots complex, 1 to 9 percent slopes	Gerda	27	0.32	9	24n
		Patent	38	0.32	9	25n
		Slickspots	10	0.32	6	24n
111F	Lonna-Arikara-Cabbart complex, 9 to 70 percent slopes	Arikara	30	0.02	70	23n
		Cabbart	18	0.37	70	23n
		Lonna	37	0.37	25	23n
112	Wolf Point silty clay loam, wooded, 0 to 1 percent slopes	Wolf Point	78	0.37	1	21c
113	Havre silt loam, wooded, 0 to 1 percent slopes	Havre	80	0.37	1	9c
114B	Haplustolls-Ustorthents complex, 0 to 6 percent slopes	Haplustolls	51	0.2	6	8c
		Ustorthents	45	0.2	6	26n
115B	Cozberg-Chanta loams, 1 to 6 percent slopes	Chanta	35	0.28	6	6i
		Cozberg	39	0.32	6	3i
116F	Kremlin-Shibah loams, 9 to 50 percent slopes, very bouldery	Kremlin	22	0.37	25	23n
		Shibah	20	0.28	50	23n
117B	Kremlin-Chanta loams, 1 to 6 percent slopes	Chanta	42	0.28	6	7i
		Kremlin	43	0.37	6	6i
118F	Shibah-Rubbleland-Arikara complex, 15 to 70 percent slopes	Arikara	25	0.02	70	23n
		Shibah	39	0.28	45	23n
119	Glendive fine sandy loam, wooded, 0 to 3 percent slopes	Glendive	74	0.2	3	4i
120B	Hanly fine sandy loam, wooded, 0 to 6 percent slopes	Hanly	61	0.24	6	3i
121F	Maltese-Lonna-Arikara complex, 3 to 50 percent slopes	Arikara	22	0.02	50	23n
		Lonna	24	0.37	25	23n
		Maltese	25	0.32	15	23n
122C	Bulltop-Shibah loams, 1 to 9 percent slopes	Bulltop	59	0.28	6	6i
		Shibah	25	0.28	9	5i
123E	Scairt-Maltese-Boxwell complex, 3 to 25 percent slopes	Boxwell	10	0.37	15	23n
		Maltese	22	0.32	25	23n
		Scairt	31	0.32	15	23n
152	Heil silt loam, low precipitation, 0 to 1 percent slopes	Heil	94	0.37	1	24n
159	Straw-Daglum complex, channeled, 0 to 2 percent slopes	Daglum	18	0.32	2	28n
		Straw	28	0.32	2	28n
175	Havre silt loam, 0 to 3 percent slopes, rarely flooded	Havre	89	0.37	3	9c
177	Glendive fine sandy loam, 0 to 3 percent slopes, rarely flooded	Glendive	84	0.2	3	4i
183	Badland, high precipitation	Badland	90	0.43	150	23n
205	Harriet silt loam, low precipitation, 0 to 3 percent slopes	Harriet	85	0.37	3	24n

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210C	Lambert-Slickspots-Rhoades complex, 1 to 9 percent slopes	Lambert	41	0.37	9	23n
		Rhoades	15	0.32	6	23n
		Slickspots	21	0.32	6	23n
255	Pits, gravel and sand, low precipitation	Pits, Gravel Anc	90	0.1	60	23n

* Actual field slope limit may be less then soil mapping unit upper slope limit. A lower upper slope limit can be used to calculate Water Erosion Hazard if verified in the field.
** 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 Water Erosion Slope Hazard Table in 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.