

TABLE 2.7.1-4

SOIL MAPPING UNIT PRODUCTIVITY AND FORAGE SUITABILITY

Map Unit Symbol	Map Unit Name	PI ¹	Long-Term Yield Estimates ²			PHSG ³	Median Production ⁴ (Tons/Acre)	FSG ⁵
			Spring Wheat	Oats	Barley			
			(Bushels/Acre)					
AD-AB	Arnegard - Clay Loam (A and B slopes)	95	35	75	57	A3	2.10	L
AR-AB	Amor - Loam (A and B slopes)	76	28	60	46	F2	1.20	L
AR-CD	Amor - Loam (C and D slopes)	61	23	48	37	F2	1.20	DL
CB-AB	Cabba - Silt Loam (A and B slopes)	38	14	30	23	H4	0.43	DL*
CB-C	Cabba - Silt Loam (C slopes)	30	11	24	18	H4	0.43	DL*
CB-DE	Cabba - Loam (D and E slopes)	23	9	18	14	H4	0.43	VDL*
CHAN	River Channels (Production for banks only)	40*	15	31	24	A3*	0.85	Ov
DH-A	Dogtooth - Silty Clay Loam (A slopes)	25	9	20	15	G2*	0.55	Cp*
DH-B	Dogtooth - Silty Clay Loam (B slopes)	24	9	19	14	G2*	0.55	Cp*
DM-AB	Daglum - Silty Clay Loam (A and B slopes)	43	16	34	26	G1	0.90	Cp
EH-A	Entic Haplustolls - Silt Loams and Silty Clay Loams - Dominant series Korell and Velva (A slopes)	80*	30	63	48	A3*	2.10	Ov
EH-A s/s	Entic Haplustolls (saline/sodic substratum) - Silt Loams and Silty Clay Loams (A slopes) Dominant series - Korell and Velva with saline and/or sodic substrates	45*	17	35	27	G3*	0.90	Ov
FR-BC	Flasher - Sandy Loam (B and C slopes)	33	12	26	20	H4	0.43	DL*
FR-DE	Flasher - Sandy Loam (D and E slopes)	20	7	16	12	H4	0.43	VDL*
FV-A	Fluvents - Silt Loams and Silty Clay Loams (A slopes) - Havrelon, Lohler, and Trembles series	80*	30	63	48	A1*	1.50	Ov
FV-A s/s	Fluvents (saline/sodic substratum) - Silt Loams and Silty Clay Loams (A slopes) - including Havrelon, Lohler, Trembles series	40*	15	31	24	G3*	0.90	Ov
GL-A	Grail - Silty Clay Loam (A slopes)	100	37	79	60	A3	2.10	CySS
HL-A	Havrelon - Silt Loam (A slopes)	85	31	67	51	A1	1.50	L
HL-A s/s	Havrelon (saline/sodic substratum) - Silt Loam (A slopes)	68*	25	53	41	G4	1.20	Ov
HL-A ch	Havrelon (channeled) - Silt Loam (A slopes)	40*	15	31	24	A3	2.10	Ov
JG-AB	Janesburg - Silty Clay (A and B slopes)	38	14	30	23	G1*	0.90	Cp
LE-A	Lallie - Silty Clay (A slopes)	25*	9	20	15	C1	1.90	W
LR-A	Lawther - Silty Clay (A slopes)	85	31	67	51	A4	1.35	CySS

* Data not available from sources noted (see below). Index estimated and or suitability determined from comparison to other map units.

1 - Productivity Index determined from Cropland Table 1 (NDPSC 2003) using the dominant/average slope of the map unit.

2 - Long term yield estimates calculated from productivity index and yield values presented in Cropland Table 2 and Cropland Table 3 (NDPSC 2003).

3 - Pasture and hayland suitability groups (PHSG) determined from Pastureland Table 1 (NDPSC 2003).

4 - Median forage production determined from pasture and hayland suitability groups (PHSG) and median yields presented in Pastureland Table 2 (NDPSC 2003).

5 - Forage suitability group determined from Stark County forage suitability interpretations available from the NRCS (2004). Abbreviations:

CySS = Clayey Subsoil; Cp = Claypan; DL = Droughty Loam; L = Loam; Ov = Overflow; VDL = Very Droughty Loam; and W = Wet.

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			Spring Wheat	Oats	Barley			
			(Bushels/Acre)					
LR-B	Lawther - Silty Clay (B slopes)	80	30	63	48	A4	1.35	CySS
MG-AB	Manning - Sandy Loam (A and B slopes)	38	14	30	23	B1	1.20	VDL
MN-A	Morton - Loam (A slopes)	80	30	63	48	F2	1.20	DL
MN-BC	Morton - Loam (B and C slopes)	64	24	50	38	F2	1.20	DL
MU-A	Moreau - Silty Clay Loam (A slopes)	70	26	55	42	A4	1.35	CySS
MU-B	Moreau - Silty Clay Loam (B slopes)	67	25	53	40	A4	1.35	CySS
PL-BC	Parshall - Sandy Loam (B and C slopes)	54	20	42	32	A6	1.20	L
PL-DEF	Parshall - Sandy Loam (D, E and F slopes)	28	10	22	17	A6	1.20	L
RR-B	Reeder - Loam (B slopes)	80	30	63	48	F2	1.20	DL
RS-A	Rhoades - Silty Clay (A slopes)	30	11	24	18	G2	0.55	Cp*
RS-B	Rhoades - Silty Clay (B slopes)	28	10	22	17	G2	0.55	Cp*
RT-AB	Regent - Silty Clay Loam (A and B slopes)	80	30	63	48	F2	1.20	CySS
RT-CD	Regent - Silty Clay Loam (C and D slopes)	64	24	50	38	F2	1.20	CySS
SE-A	Savage - Silty Clay Loam (A slopes)	90	33	71	54	A4	1.35	CySS
SE-B	Savage - Silty Clay Loam (B slopes)	85	31	67	51	A4	1.35	CySS
SN-AB	Sen - Silt Loam (A and B slopes)	76	28	60	46	F2	1.20	DL
SO-A s/s	Shambo (saline/sodic substratum) - Loam (A slopes)	62*	23	49	37	A1	1.50	L
SO-ABC	Shambo - Loam (A, B and C slopes)	80	30	63	48	A1	1.50	L
TY-ABC	Tally - Sandy Loam (A, B and C slopes)	63	23	50	38	A6	1.20	DL
VR-ABC	Vebar - Loam (A, B, and C slopes)	54	20	42	32	F3	1.05	VDL
Wet Saline	Saline - Silty Clay Loam - Series include Harriet, Hoven and similar soils	25*	9	20	15	G3	0.90	W*
WN-A	Wayden - Silty Clay (A slopes)	35	13	28	21	H4	0.43	CySS*
WN-B	Wayden - Silty Clay (B slopes)	33	12	26	20	H4	0.43	CySS*
WN-CDE	Wayden - Silty Clay (C, D, and E slopes)	26	10	20	16	H4	0.43	CySS*

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