

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
AaA: Alluvial Land-----	100	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: flooding cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Favorable
AaB: Alluvial Land-----	100	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: flooding cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Favorable
Ab: Alluvial Land, Frequent overflow-----	100	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: flooding cutbanks cave	Limitation: wetness	Limitation: too sandy wetness	Favorable
Ba: Beach Materials, Sandy-	100	Severe: seepage	Severe: seepage	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
Bb: Beach Materials And Muck-----	100	Severe: seepage	Severe: ponding	Severe: slow refill cutbanks cave	Limitation: frost action ponding	Limitation: fast intake ponding droughty	Limitation: soil blowing ponding	Limitation: rooting depth wetness droughty
Bc: Blue Earth-----	100	Moderate: seepage	Severe: excess humus piping ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
BdB: Kingsley-----	40	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Mahtomedi-----	40	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy	Limitation: rooting depth droughty
Hayden-----	20	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily	Limitation: erodes easily rooting depth

See footnote at end of table.

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
BdC:								
Kingsley-----	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi-----	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden-----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
BdC2:								
Kingsley, Mod. eroded--	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi, Mod. eroded-	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden, Mod. eroded----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
BdD:								
Kingsley-----	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi-----	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden-----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
BdD2:								
Kingsley, Mod. eroded--	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi, Mod. eroded-	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden, Mod. eroded----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
<b>BdE2:</b>								
Kingsley, Mod. eroded--	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi, Mod. eroded-	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden, Mod. eroded----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
<b>BdF:</b>								
Kingsley-----	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi-----	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden-----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
<b>BeD3:</b>								
Kingsley, Sev. eroded--	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi, Sev. eroded-	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden, Sev. eroded----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
<b>BeE3:</b>								
Kingsley, Sev. eroded--	40	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
Mahtomedi, Sev. eroded-	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy	Limitation: rooting depth slope droughty
Hayden, Sev. eroded----	20	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope

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Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
CaB: Clarion-----	100	Moderate: seepage slope	Severe: piping	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
CaB2: Clarion, Mod. eroded---	100	Moderate: seepage slope	Severe: piping	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily	Limitation: erodes easily
CaC: Clarion-----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
CaC2: Clarion, Mod. eroded---	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
CbC3: Clarion, Sev. eroded---	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope	Limitation: erodes easily slope
Cc: Comfrey-----	100	Moderate: seepage	Severe: wetness	Moderate: slow refill	Limitation: flooding frost action	Limitation: flooding wetness	Limitation: wetness	Limitation: wetness
CdA: Copaston-----	100	Severe: depth to rock	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: depth to rock	Limitation: depth to rock	Limitation: depth to rock
CdB: Copaston-----	100	Severe: depth to rock	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope depth to rock	Limitation: depth to rock	Limitation: depth to rock
CdB2: Copaston, Mod. eroded--	100	Severe: depth to rock	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope depth to rock	Limitation: depth to rock	Limitation: depth to rock
CW: Census Water-----	100	---	---	---	---	---	---	---
DaA: Dakota-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: too sandy	Favorable

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
DaB: Dakota-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: too sandy	Favorable
DaB2: Dakota, Mod. eroded----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: too sandy	Favorable
DaC2: Dakota, Mod. eroded----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope too sandy	Limitation: slope
DbA: Dickman-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
DbB: Dickman-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
DbB2: Dickman, Mod. eroded----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
DbC2: Dickman, Mod. eroded----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Dc: Dorchester-----	100	Moderate: seepage	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: erodes easily flooding	Limitation: erodes easily	Limitation: erodes easily
Dd: Dorchester-----	100	Moderate: seepage	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: erodes easily flooding	Limitation: erodes easily	Limitation: erodes easily
De: Duelm Variant-----	100	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness soil blowing droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Df: Dundas-----	100	Slight	Severe: thin layer wetness	Severe: slow refill	Limitation: frost action	Limitation: percs slowly wetness	Limitation: wetness	Limitation: wetness
Dg: Dune Land-----	100	---	---	---	---	---	---	---
EaA: Estherville-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty	Limitation: too sandy	Limitation: droughty
EaB: Estherville-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
EaB2: Estherville, Mod. eroded-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
EaC: Estherville-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
EaC2: Estherville, Mod. eroded-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
EbB: Salida-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
EbB2: Salida, Mod. eroded----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
EbC: Salida-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope	Limitation: slope droughty
EbC2: Salida, Mod. eroded----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope	Limitation: slope droughty

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Fa: Faxon-----	100	Moderate: seepage depth to rock	Severe: piping wetness	Severe: depth to rock	Limitation: frost action depth to rock	Limitation: wetness depth to rock	Limitation: wetness depth to rock	Limitation: wetness depth to rock
Ga: Glencoe-----	100	Moderate: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
HaB: Hayden-----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily	Limitation: erodes easily rooting depth
HaB2: Hayden, Mod. eroded----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily	Limitation: erodes easily rooting depth
HaC: Hayden-----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HaC2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HaD: Hayden-----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HaD2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HaE2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HaF2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
HbB: Hayden-----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily soil blowing	Limitation: erodes easily rooting depth
HbB2: Hayden, Mod. eroded----	100	Moderate: seepage slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily soil blowing	Limitation: erodes easily rooting depth
HbC: Hayden-----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HbC2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HbD: Hayden-----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HbD2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HbD3: Hayden, Sev. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HbE2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HbE3: Hayden, Sev. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
HbF2: Hayden, Mod. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope soil blowing	Limitation: erodes easily slope soil blowing	Limitation: erodes easily rooting depth slope
HcC3: Hayden, Sev. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HcD3: Hayden, Sev. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HcE3: Hayden, Sev. eroded----	100	Severe: slope	Moderate: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
HdA: Sparta-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake droughty	Limitation: too sandy soil blowing	Limitation: droughty
HdB: Sparta-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
HdB2: Sparta, Mod. wind eroded-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
HdC: Sparta-----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
HdC2: Sparta, Mod. wind eroded-----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
HeA: Sparta-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake droughty	Limitation: too sandy soil blowing	Limitation: droughty
HeB: Sparta-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
HeB2: Sparta, Mod. wind eroded-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
HeC: Sparta-----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
HeC2: Sparta, Mod. eroded----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Ia: Isanti-----	100	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
KaA: Kasota-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: too sandy	Favorable
KaB: Kasota-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: too sandy	Favorable
LaA: Wadena-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Favorable	Limitation: too sandy	Favorable
LaB: Estherville-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
LaB2: Estherville, Mod. eroded-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy	Limitation: droughty
LaC: Estherville-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
LaC2: Estherville, Mod. eroded-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
LaD: Estherville-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
LaD2: Estherville, Mod. eroded-----	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: slope too sandy	Limitation: slope droughty
LbB: Estherville-----	60	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
Burnsville-----	40	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
LbB2: Estherville, Mod. eroded-----	60	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty
Burnsville, Mod. eroded	40	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: too sandy soil blowing	Limitation: droughty

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		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
LbC: Estherville-----	60	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Burnsville-----	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
LbC2: Estherville, Mod. eroded-----	60	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Burnsville, Mod. eroded	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
LbD: Estherville-----	60	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
Burnsville-----	40	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope soil blowing droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty
LcB: Lester-----	100	Moderate: seepage slope	Moderate: wetness	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
LcB2: Lester, Mod. eroded----	100	Moderate: seepage slope	Moderate: wetness	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
LcC: Lester-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LcC2: Lester, Mod. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope

See footnote at end of table.

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
LcD: Lester-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LcD2: Lester, Mod. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LcE2: Lester, Mod. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LcF2: Lester, Mod. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LdC3: Lester, Sev. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LdD3: Lester, Sev. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LdE3: Lester, Sev. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
LdF3: Lester, Sev. eroded----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: rooting depth slope	Limitation: erodes easily slope	Limitation: erodes easily rooting depth slope
Le: Le Sueur-----	100	Moderate: seepage	Severe: thin layer	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness	Limitation: wetness	Favorable

See footnote at end of table.

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Lf: Le Sueur-----	60	Moderate: seepage	Severe: thin layer	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness	Limitation: wetness	Favorable
Lester-----	40	Moderate: seepage slope	Moderate: wetness	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
Ma: Marsh-----	100	Severe: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
Oa: Oshawa-----	100	Slight	Severe: ponding	Severe: slow refill	Limitation: flooding frost action ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
PaA: Palms-----	100	Severe: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: erodes easily soil blowing ponding	Limitation: erodes easily rooting depth wetness
PaB: Palms, Sloping-----	100	Severe: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: erodes easily soil blowing ponding	Limitation: erodes easily rooting depth wetness
PbA: Houghton-----	100	Severe: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
PbB: Houghton, Sloping-----	100	Severe: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
Ra: Oshawa-----	100	Slight	Severe: ponding	Severe: slow refill	Limitation: flooding frost action ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
Sa: Sandstone Outcrops-----	100	---	---	---	---	---	---	---

See footnote at end of table.

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Sb: Steep Land-----	100	---	---	---	---	---	---	---
Sc: Stony Land-----	100	---	---	---	---	---	---	---
Ta: Terrace Escarpments----	100	---	---	---	---	---	---	---
TbB: Terril-----	100	Moderate: seepage slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
TbC: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
TbD: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
TbE: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
TcA: Terril-----	100	Moderate: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Favorable	Favorable	Favorable
TcB: Terril-----	100	Moderate: seepage slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
TcC: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
TcD: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
TcE: Terril-----	100	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
WaA: Waukegan-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Favorable	Limitation: erodes easily too sandy	Limitation: erodes easily

See footnote at end of table.

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
WaB: Waukegan-----	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily too sandy	Limitation: erodes easily
WaB2: Waukegan, Mod. eroded--	100	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily too sandy	Limitation: erodes easily
WaC2: Waukegan, Mod. eroded--	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope too sandy	Limitation: erodes easily slope
WaD2: Waukegan, Mod. eroded--	100	Severe: seepage slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: slope	Limitation: erodes easily slope too sandy	Limitation: erodes easily slope
Wb: Webster-----	70	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
Glencoe-----	30	Moderate: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
Wc: Webster-----	70	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
Le Sueur-----	30	Moderate: seepage	Severe: thin layer	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness	Limitation: wetness	Favorable
ZaA: Sartell-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake droughty	Limitation: too sandy soil blowing	Limitation: droughty
ZaA2: Sartell, Eroded-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake droughty	Limitation: too sandy soil blowing	Limitation: droughty
ZaB: Sartell-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty

See footnote at end of table.

Water Management

Map symbol and soil name	Component percent	Limitations for--			Features affecting--			
		Pond reservoir areas	Embankments, dikes, and levees	Aquifer-fed excavated ponds	Drainage	Irrigation	Terraces and diversions	Grassed waterways
ZaB2: Sartell, Eroded-----	100	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
ZaC2: Sartell, Eroded-----	100	Severe: seepage slope	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: slope too sandy soil blowing	Limitation: slope droughty

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable.)