

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
B109A: Bowstring-----	45	Severe: seepage	Severe: excess humus ponding	Severe: slow refill cutbanks cave	Limitation: flooding subsides ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
Fluvaquents-----	40	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: flooding frost action ponding	Limitation: rooting depth ponding droughty	Limitation: too sandy ponding	Limitation: rooting depth wetness droughty
B200A: Garnes-----	85	Moderate: seepage	Severe: piping	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Limitation: rooting depth
B201A: Chilgren-----	85	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: rooting depth wetness soil blowing	Limitation: wetness soil blowing	Limitation: rooting depth wetness
B202A: Cathro-----	90	Severe: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
B203A: Northwood-----	90	Severe: seepage	Severe: piping ponding	Severe: cutbanks cave	Limitation: frost action subsides ponding	Limitation: rooting depth soil blowing ponding	Limitation: erodes easily soil blowing ponding	Limitation: erodes easily rooting depth wetness
B204A: Roliss-----	85	Moderate: seepage	Severe: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
B205A: Bernier-----	90	Severe: seepage	Severe: excess humus ponding	Severe: slow refill cutbanks cave	Limitation: frost action subsides ponding	Limitation: rooting depth soil blowing ponding	Limitation: soil blowing ponding	Limitation: rooting depth wetness
B206A: Hamre-----	90	Moderate: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
11A: Augsburg-----	85	Severe: seepage	Severe: hard to pack wetness	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: percs slowly wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness

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
I2A: Augsburg-----	85	Severe: seepage	Severe: hard to pack wetness	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly wetness
I3A: Berner-----	90	Severe: seepage	Severe: excess humus ponding	Severe: slow refill cutbanks cave	Limitation: frost action subsides ponding	Limitation: rooting depth soil blowing ponding	Limitation: soil blowing ponding	Limitation: rooting depth wetness
I4A: Berner-----	30	Severe: seepage	Severe: wetness	Severe: slow refill cutbanks cave	Limitation: frost action subsides	Limitation: rooting depth wetness soil blowing	Limitation: wetness soil blowing	Limitation: rooting depth wetness
Rosewood, DEPRESSIONAL-	30	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
Strathcona, DEPRESSIONAL-----	30	Severe: seepage	Severe: piping wetness	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: wetness soil blowing droughty	Limitation: wetness soil blowing	Limitation: wetness droughty
I5A: Borup-----	85	Severe: seepage	Severe: piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: wetness	Limitation: wetness
I6A: Borup-----	85	Severe: seepage	Severe: piping wetness	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Limitation: wetness
I7A: Bowstring-----	45	Severe: seepage	Severe: excess humus ponding	Severe: slow refill cutbanks cave	Limitation: flooding subsides ponding	Limitation: flooding ponding	Limitation: ponding	Limitation: wetness
Fluvaquents-----	45	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: flooding frost action ponding	Limitation: rooting depth ponding droughty	Limitation: too sandy ponding	Limitation: rooting depth wetness droughty
I8A: Cathro-----	90	Severe: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness

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
I9A: Clearwater-----	90	Slight	Severe: hard to pack wetness	Severe: slow refill	Limitation: frost action percs slowly	Limitation: percs slowly slow intake wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness
I10A: Clearwater, DEPRESSIONAL-----	90	Slight	Severe: hard to pack ponding	Severe: slow refill	Limitation: frost action percs slowly ponding	Limitation: percs slowly ponding	Limitation: percs slowly ponding	Limitation: percs slowly wetness
I11A: Deerwood-----	90	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: subsides ponding cutbanks cave	Limitation: soil blowing ponding	Limitation: too sandy soil blowing ponding	Limitation: wetness
I12A: Eckvoll-----	85	Severe: seepage	Moderate: piping wetness	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: fast intake wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily
I13A: Espelie-----	85	Severe: seepage	Severe: wetness	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness soil blowing droughty	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly wetness droughty
I14B: Fairdale-----	85	Moderate: seepage slope	Severe: piping	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Favorable	Favorable
I14D: Fairdale-----	85	Severe: slope	Severe: piping	Moderate: slow refill deep to water	Limitation: deep to water	Limitation: slope	Limitation: slope	Limitation: slope
I15A: Flaming-----	85	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
I16F: Fluvaquents-----	55	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: flooding frost action ponding	Limitation: rooting depth ponding droughty	Limitation: too sandy ponding	Limitation: rooting depth wetness droughty
Hapludolls-----	30	Moderate: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Favorable	Favorable	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
I17A: Foldahl-----	85	Severe: seepage	Severe: piping	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily
I18A: Foldahl-----	85	Severe: seepage	Severe: piping	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: wetness droughty	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily droughty
I19A: Foxhome-----	85	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: frost action	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Favorable
I20A: Foxlake-----	90	Slight	Severe: hard to pack wetness	Severe: slow refill	Limitation: frost action percs slowly	Limitation: percs slowly wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness
I21A: Fram-----	85	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily
I22A: Glyndon-----	85	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily
I23A: Glyndon-----	85	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: frost action cutbanks cave	Limitation: wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily
I24A: Grimstad-----	85	Severe: seepage	Severe: piping wetness	Severe: cutbanks cave	Favorable	Limitation: wetness	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily
I25A: Hamar-----	85	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
I26A: Hamerly-----	85	Moderate: seepage	Severe: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	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
I27A: Hamre-----	90	Moderate: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
I28A: Hangaard-----	85	Severe: seepage	Severe: seepage wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
I29A: Hattie-----	85	---	---	---	---	---	---	---
I29D: Hattie-----	90	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: deep to water	Limitation: percs slowly slope slow intake	Limitation: percs slowly slope	Limitation: percs slowly slope
I30A: Hedman-----	85	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
I31A: Hedman-----	50	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
Fram-----	40	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily
I32A: Hilaire-----	85	Severe: seepage	Severe: hard to pack	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness droughty	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly droughty
I33A: Hilaire-----	85	Severe: seepage	Severe: hard to pack	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: fast intake wetness droughty	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly droughty
I34A: Huot-----	85	Severe: seepage	Severe: hard to pack	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness droughty	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly 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
I35A: Karlsruhe-----	85	Severe: seepage	Severe: seepage wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness soil blowing droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
I36A: Kittson-----	85	Moderate: seepage	Moderate: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Favorable
I37A: Kratka, DEPRESSIONAL---	45	Severe: seepage	Severe: piping ponding	Severe: slow refill cutbanks cave	Limitation: ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: rooting depth wetness
Strathcona, DEPRESSIONAL-----	45	Severe: seepage	Severe: piping ponding	Severe: slow refill cutbanks cave	Limitation: frost action ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
I38A: Kratka-----	85	Severe: seepage	Severe: piping wetness	Severe: slow refill cutbanks cave	Favorable	Limitation: wetness soil blowing droughty	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily wetness droughty
I39A: Linveltd-----	85	Severe: seepage	Severe: piping	Severe: cutbanks cave	Limitation: frost action	Limitation: wetness	Limitation: wetness soil blowing	Favorable
I40B: Maddock-----	85	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: fast intake slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
I40F: Maddock-----	90	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
I41A: Markey-----	90	Severe: seepage	Severe: seepage piping ponding	Severe: slow refill cutbanks cave	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: too sandy soil blowing ponding	Limitation: wetness
I42A: Markey, PONDED-----	90	Severe: seepage	Severe: seepage piping ponding	Severe: slow refill cutbanks cave	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: too sandy soil blowing ponding	Limitation: wetness

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
I43A: Mavie-----	85	Severe: seepage	Severe: piping wetness	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily wetness
I44A: Newfolden-----	85	Moderate: seepage	Severe: piping	Severe: slow refill	Limitation: frost action percs slowly	Limitation: percs slowly wetness	Limitation: wetness	Limitation: percs slowly
I45A: Northwood-----	90	Severe: seepage	Severe: piping ponding	Severe: cutbanks cave	Limitation: frost action subsides ponding	Limitation: rooting depth soil blowing ponding	Limitation: erodes easily soil blowing ponding	Limitation: erodes easily rooting depth wetness
I46A: Pits-----	85	---	---	---	---	---	---	---
I47A: Poppleton-----	85	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
I48A: Radium-----	85	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: fast intake wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: rooting depth droughty
I49A: Rauville-----	90	Severe: seepage	Severe: hard to pack wetness	Severe: slow refill cutbanks cave	Limitation: flooding frost action	Limitation: flooding wetness	Limitation: wetness	Limitation: wetness
I50A: Reiner-----	85	Moderate: seepage	Severe: piping	Moderate: slow refill deep to water	Limitation: frost action	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Limitation: rooting depth
I51A: Reiner-----	85	Moderate: seepage	Severe: piping	Moderate: slow refill deep to water	Limitation: frost action	Limitation: fast intake wetness soil blowing	Limitation: wetness soil blowing	Limitation: rooting depth

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
I52A: Reis-----	50	Slight	Severe: hard to pack wetness	Severe: slow refill	Limitation: frost action percs slowly	Limitation: percs slowly slow intake wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness
Clearwater-----	40	Slight	Severe: hard to pack wetness	Severe: slow refill	Limitation: frost action percs slowly	Limitation: percs slowly slow intake wetness	Limitation: percs slowly wetness	Limitation: percs slowly wetness
I53A: Roliss-----	85	Moderate: seepage	Severe: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
I54A: Roliss, DEPRESSIONAL---	90	Moderate: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
I55A: Rosewood-----	85	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
I56A: Rosewood-----	50	Severe: seepage	Severe: seepage piping wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: wetness droughty
Venlo-----	40	Severe: seepage	Severe: seepage piping ponding	Severe: cutbanks cave	Limitation: ponding cutbanks cave	Limitation: ponding droughty	Limitation: too sandy soil blowing ponding	Limitation: wetness droughty
I57A: Sandberg-----	85	Severe: seepage	Severe: seepage piping	Severe: no water	Limitation: deep to water	Limitation: slope droughty	Limitation: too sandy soil blowing	Limitation: droughty
I58A: Seelyville-----	90	Severe: seepage	Severe: excess humus ponding	Severe: slow refill	Limitation: frost action subsides ponding	Limitation: soil blowing ponding	Limitation: soil blowing ponding	Limitation: wetness
I59A: Smiley-----	85	Moderate: seepage	Severe: piping wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness

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
I60A: Smiley, DEPRESSIONAL---	90	Moderate: seepage	Severe: piping ponding	Severe: slow refill	Limitation: frost action ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
I61A: Strandquist-----	85	Moderate: seepage	Severe: piping wetness	Severe: cutbanks cave	Limitation: frost action	Limitation: wetness soil blowing	Limitation: erodes easily wetness soil blowing	Limitation: erodes easily wetness
I62A: Syrene-----	85	Severe: seepage	Severe: seepage wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: erodes easily too sandy wetness	Limitation: erodes easily wetness droughty
I63A: Thiefriver-----	85	Severe: seepage	Severe: wetness	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness soil blowing droughty	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly wetness droughty
I64A: Ulen-----	85	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
I65A: Ulen-----	85	Severe: seepage	Severe: seepage piping	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: wetness droughty	Limitation: too sandy wetness soil blowing	Limitation: droughty
I66A: Vallars-----	85	Slight	Severe: piping wetness	Severe: slow refill	Limitation: frost action	Limitation: wetness	Limitation: erodes easily wetness	Limitation: erodes easily wetness
I67A: Wheatville-----	85	Severe: seepage	Severe: hard to pack	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness	Limitation: percs slowly wetness	Limitation: percs slowly
I68A: Wheatville-----	85	Severe: seepage	Severe: hard to pack	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: wetness soil blowing	Limitation: percs slowly wetness soil blowing	Limitation: percs slowly

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
I69A: Wyandotte-----	85	Severe: seepage	Severe: hard to pack wetness	Severe: slow refill cutbanks cave	Limitation: frost action percs slowly	Limitation: percs slowly wetness droughty	Limitation: percs slowly wetness	Limitation: percs slowly wetness droughty
I70A: Strathcona-----	85	Severe: seepage	Severe: piping wetness	Severe: slow refill cutbanks cave	Limitation: frost action	Limitation: wetness soil blowing	Limitation: wetness soil blowing	Limitation: wetness
M-W: Water, Miscellaneous---	100	---	---	---	---	---	---	---
W: Water-----	100	---	---	---	---	---	---	---

(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.)