

## Section II-iii-J

### Water Management

Interpretations of soils for water management are given as limitations for pond reservoir areas; embankments, dikes, and levees; excavated pond (aquifer-fed); and as restrictive features that affect drainage, irrigation, terraces and diversions, and grassed waterways.

Pond reservoir area is the area that holds water behind a dam or embankment. Soils best suited to this use have a low seepage potential, which is determined by the permeability and depth to fractured or permeable bedrock, or other permeable material.

Embankments, dikes, and levees are raised structures of soil material constructed to impound water or protect land against overflow. They generally are less than 20 feet high and are constructed of "homogeneous" soil material (without a core zone) and compacted to medium density.

Excavated ponds (aquifer-fed) are bodies of water created by excavating a pit or dugout into a ground-water aquifer. Excluded are ponds which are fed by surface runoff or that have embankments that impound water 3 feet or more above the original surface.

Drainage is the process of removing excess surface and subsurface water from agricultural land. Soil features are listed that affect grading, excavation, and stability of trench sides or ditchbanks. Features are also listed which might affect productivity after drainage is installed. The availability of drainage outlets must also be considered.

Irrigation is the controlled application of water to supplement rainfall for supporting plant growth. Soil features are listed that affect design, layout, construction, management, or performance of an irrigation system.

Terraces and diversions are embankments or a combination of an embankment and a channel constructed across a slope to control erosion by diverting or storing surface runoff instead of permitting it to flow uninterrupted down the slope. Soil features are listed that affect the construction of terraces and diversions and that may cause problems after construction.

Grassed waterways are natural or constructed channels that generally are broad and shallow and are covered with erosion-resistant grasses. They are used to conduct surface water to outlets at a nonerosive velocity. Soil features are listed that affect the construction and maintenance of the waterway, and also that affect the growth of grass after construction.

See the National Soil Survey Handbook, Part 620, for criteria used in rating specific uses.

**WATER MANAGEMENT**

**Somerset County, Southern Part**

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Soil name and map symbol	Limitations For			Features Affecting			
	Pond Reservoir areas	Embankments ,Dikes, and Levees	Aquifer-fed Excavated Ponds	Drainage	Irrigation	Terraces and Diversions	Grassed Waterways
<b>AaB</b> ADAMS	Severe: seepage	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: soil blowing, too sandy	Limitation: droughty
<b>AaC</b> ADAMS	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: slope, soil blowing, too sandy	Limitation: droughty, slope
<b>AaD</b> ADAMS	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: slope, soil blowing, too sandy	Limitation: droughty, slope
<b>BaB</b> BANGOR	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>BaC2</b> BANGOR	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>BgB</b> BANGOR	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>BgC</b> BANGOR	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope

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<b>BgD</b> BANGOR	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>BhB</b> BERKSHIRE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope, soil blowing	Limitation: large stones, soil blowing	Limitation: large stones
<b>BhC</b> BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope, soil blowing	Limitation: large stones, slope, soil blowing	Limitation: large stones, slope
<b>BkB</b> BERKSHIRE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones	Limitation: droughty, large stones
<b>BkC</b> BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope	Limitation: droughty, large stones, slope
<b>BkE</b> BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope	Limitation: droughty, large stones, slope
<b>Bo</b> BIDDEFORD	Slight:	Severe: hard to pack, ponding	Severe: slow refill	Limitation: frost action, percs slowly, ponding	Limitation: percs slowly, ponding	Limitation: erodes easily, percs slowly, ponding	Limitation: erodes easily, percs slowly, wetness

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<b>BuB</b> BUXTON	Moderate: slope	Severe: hard to pack, wetness	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness
<b>BuC2</b> BUXTON	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, rooting depth, slope
<b>CnC</b> COLTON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>CnD</b> COLTON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>CnE</b> COLTON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>DxB</b> DIXMONT	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, wetness	Limitation: percs slowly, wetness
<b>DxC</b> DIXMONT	Severe: slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness

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<b>DyB</b> DIXMONT	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, wetness	Limitation: percs slowly, wetness
<b>DyC</b> DIXMONT	Severe: slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness
<b>Dz</b> DUNE LAND	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, soil blowing	Limitation: slope, soil blowing, too sandy	Limitation: droughty, slope
<b>Ha</b> HADLEY	Moderate: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: flooding	Limitation: erodes easily	Limitation: erodes easily
<b>Lc</b> LEICESTER	Severe: seepage	Severe: piping, wetness	Moderate: slow refill	Limitation: frost action	Limitation: wetness	Limitation: wetness	Limitation: wetness
<b>Lk</b> LIMERICK	Moderate: seepage	Severe: piping, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, flooding, frost action	Limitation: flooding, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness
<b>LyB</b> LYMAN	Severe: depth to rock	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock	Limitation: depth to rock, droughty

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<b>LyC</b> LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>LzC</b> LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>LzE</b> LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>MbB</b> MADAWASKA	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, slope	Limitation: droughty, slope, wetness	Limitation: too sandy, wetness	Limitation: droughty, wetness
<b>MeB</b> MELROSE	Severe: seepage	Moderate: hard to pack, piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: erodes easily, percs slowly	Limitation: erodes easily, rooting depth
<b>Mn</b> MIXED ALLUVIAL LAND	Severe: seepage	Severe: piping, ponding, seepage	Severe: cutbanks cave	Limitation: flooding, frost action, ponding	Limitation: flooding, ponding	Limitation: erodes easily, ponding, too sandy	Limitation: erodes easily, wetness
<b>Mo</b> MONARDA	Moderate: slope	Severe: piping, wetness	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: slope, wetness	Limitation: percs slowly, wetness	Limitation: wetness

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<b>Mr</b> MONARDA	Moderate: slope	Severe: piping, wetness	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: slope, wetness	Limitation: percs slowly, wetness	Limitation: wetness
<b>Pa</b> PEAT	Severe: seepage	Severe: excess humus, ponding	Slight:	Limitation: frost action, ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
<b>MUCK</b>	Severe: seepage	Severe: excess humus, ponding	Slight:	Limitation: frost action, ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
<b>PcB</b> PERU	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: soil blowing, wetness	Limitation: percs slowly, rooting depth
<b>PdB</b> PERU	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, wetness	Limitation: percs slowly, rooting depth
<b>PdC</b> PERU	Severe: slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, rooting depth, slope
<b>PgB</b> PLAISTED	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth

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<b>PgC</b> PLAISTED	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>PrB</b> PLAISTED	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>PrC</b> PLAISTED	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>PrD</b> PLAISTED	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>RtC</b> ROCK LAND	Severe: depth to rock	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock	Limitation: depth to rock
<b>THORNDIKE</b>	Severe: depth to rock, slope	Severe: large stones, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
<b>LYMAN</b>	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope

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<b>RtE</b> ROCK LAND	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope
THORNDIKE	Severe: depth to rock, slope	Severe: large stones, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>Sc</b> SCANTIC	Slight:	Severe: hard to pack, wetness	Severe: no water	Limitation: frost action, percs slowly	Limitation: percs slowly, wetness	Limitation: erodes easily, percs slowly, wetness	Limitation: erodes easily, rooting depth, wetness
<b>Sk</b> SKOWHEGAN	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, slope	Limitation: droughty, slope, wetness	Limitation: too sandy, wetness	Limitation: droughty, wetness
<b>StB</b> STETSON	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>SuC2</b> SUFFIELD	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, rooting depth, slope

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<b>TkC</b> THORNDIKE	Severe: depth to rock, slope	Severe: large stones, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
<b>TkD</b> THORNDIKE	Severe: depth to rock, slope	Severe: large stones, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
<b>TpB</b> THORNDIKE	Severe: depth to rock	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones	Limitation: depth to rock, large stones
<b>PLAISTED</b>	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>TpC</b> THORNDIKE	Severe: depth to rock, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope
<b>PLAISTED</b>	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope

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<b>TpD</b> THORNDIKE	Severe: depth to rock, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope
<b>PLAISTED</b>	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>TtB</b> THORNDIKE	Severe: depth to rock	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones	Limitation: depth to rock, large stones
<b>BANGOR</b>	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>TtC</b> THORNDIKE	Severe: depth to rock, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope
<b>BANGOR</b>	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>TtD</b> THORNDIKE	Severe: depth to rock, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope	Limitation: depth to rock, large stones, slope

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<b>TtD</b> BANGOR	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>Wa</b> WALPOLE	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, frost action	Limitation: wetness	Limitation: soil blowing, too sandy, wetness	Limitation: wetness
<b>Wn</b> WINOOSKI	Moderate: seepage	Severe: piping, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, flooding, frost action	Limitation: flooding, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily