

APPENDIX B MAINE HYDROGEOLOGIC SOIL GROUPS

HYDROLOGIC SOIL GROUPS, MAXIMUM PERMISSIBLE VELOCITIES and SUBSURFACE INFLOW RATES FOR SOILS IN MAINE (USDA Soil Conservation Service)

Hydrologic Group A

<i>Soil Name</i>	<i>K factor (10"-20")</i>	<i>Permissible Velocity Feet per second</i>		<i>Inflow Rate cfs/1000 ft. (where water table exists)</i>
		<i><u>Bare</u></i>	<i><u>Vegetated</u></i>	
		Adams (Windsor)	.17	
Colton (Hinckley)	.17	2.5	4.5	1.00
Dune Land	.10	2.0	4.0	1.00
Hermon (Gloucester)	.10	2.5	4.5	1.00
Masardis	.10	2.5	4.5	1.00
Pits, Gravelly	.02	2.5	4.5	1.00
Pits, Sandy	.15	2.0	4.0	1.00
Sunday (Suncook)	.15	2.5	4.5	1.00

Hydrologic Group B

Allagash	.28	1.5	3.5	1.00
Au Gres	.15	2.0	4.0	1.00
Bangor	.28	1.5	3.0	.15
Berkshire (Charlton)	.32	1.5	3.0	.15
Caribou	.24	1.5	3.0	.10
Croghan (Deerfield)	.17	2.0	4.0	.50
Danforth	.15	2.0	3.5	.15
Duane	.17	2.5	4.5	.50
Elliottsville	.24	1.5	3.0	----
Fryeburg (Hadley)	.49	1.5	3.0	.10
Groveton (Agawam)	.32	2.0	4.5	1.00
Lille	.43	1.5	3.0	.10
Linneus	.28	1.5	3.0	----
Lovewell (Winnooski)	.49	1.5	3.0	.10
Machias	.10	2.5	4.5	.50
Madawaska (Ninigret)	.28	1.5	3.5	.50
Monadnock	.28	1.5	3.5	.15
Ondawa	.37	2.0	4.0	.20
Penquis	.32	1.5	3.0	----
Perham	.32	1.5	3.0	.10
Podunk	.37	1.5	3.0	.15
Salmon (Hartland)	.64	1.0	2.5	.10
Sheepscot	.10	2.5	4.5	.50
Shirley	.15	2.0	3.5	.15
Skowhegan	.17	2.0	4.0	.50
Stetson (Merrimac)	.10	2.5	4.5	1.00
Waumbek	.17	2.5	4.5	1.00

APPENDIX B (Continued)

Hydrologic Group C

<i>Soil Name</i>	<i>K Factor (10" – 20")</i>	<i>Permissible Velocity Feet per second</i>		<i>Inflow Rate cfs/1000 ft. (where water table exists)</i>
		<i>Bare</i>	<i>Vegetated</i>	
Becket	.28	1.5	3.0	.10
Boothbay	.49	1.5	3.0	.05
Brayton (Ridgebury)	.32	1.5	3.0	.10
Buxton (Suffield)	.49	1.5	3.5	.05
Canaan	.17	2.0	3.5	----
Charles (Limerick)	.49	1.5	3.0	.10
Chesuncook	.32	1.5	3.0	.10
Colonel	.24	2.0	3.5	.10
Conant	.24	2.0	3.5	.15
Cornish	.49	1.5	3.0	.10
Crary	.64	1.0	2.5	.10
Daigle	.24	1.5	3.0	.10
Dixfield	.24	2.0	3.5	.10
Dixmont	.28	1.5	3.0	.15
Eldridge	.24	1.5	3.0	.05
Elmwood	.32	1.5	3.0	.05
Finch (Saugatuck)	.15	2.0	3.5	.15
Fredon	.24	2.0	3.5	.15
Howland	.24	2.0	3.5	.10
Kinsman	.17	2.0	4.0	.15
Mapleton	.20	2.0	3.5	----
Marlow (Paxton)	.32	2.0	4.0	.10
Melrose	.32	2.0	4.0	.10
Moosilauke (Walpole)	.24	2.0	4.0	.15
Naskeag	.10	2.5	4.5	.15
Naumburg	.17	2.0	4.0	.15
Nicholville (Belgrade, Scio)	.64	1.0	2.5	.10
Peru	.32	2.0	3.5	.10
Plaisted	.24	2.0	3.5	.10
Potsdam	.64	1.0	2.5	.10
Red Hook	.24	2.5	4.5	.15
Roundabout (Raynham)	.64	1.0	2.5	.05
Rumney	.37	1.5	3.0	.15
Skerry	.28	1.5	3.0	.10
Swanville (Canandaigua)	.49	1.5	3.0	.05
Telos	.32	1.5	3.0	.10
Tunbridge	.20	2.0	3.5	----
Westburry	.24	1.5	3.0	.10
Winnecook	.28	1.5	3.0	1.00

APPENDIX B (Continued)

Hydrologic Group D

<i>Soil Name</i>	<i>K factor (10" – 20")</i>	<i>Permissible Velocity Feet per second</i>		<i>Inflow Rate cfs/1000 ft. (where water table exists)</i>
		<i>Bare</i>	<i>Vegetated</i>	
Abram	----	2.0	3.5	----
Aurelie	.17	2.0	3.5	.10
Beaches	.05	2.5	4.5	1.00
Benson	.17	2.0	3.5	----
Biddeford	.32	1.5	3.0	.05
Burnham	.28	1.5	3.0	.10
Easton	.37	1.5	3.0	.10
Gouldsboro	.37	1.5	3.0	.05
Lamoine	.49	1.5	3.0	.05
Lyme (Leicester)	.32	1.5	3.0	.10
Medomak (Saco)	.49	1.5	3.0	.05
Monarda	.28	2.0	3.5	.10
Peacham (Whitman)	.28	2.0	3.5	.10
Scantic	.49	1.5	3.5	.05
Schoodic	.17	2.0	3.5	----
Searsport (Scarboro)	.17	2.5	4.5	.15
Washburn	.24	2.0	3.5	.10
Whately	.28	2.0	3.5	.05

Hydrologic Group B/D

(Atherton)	.28	2.0	3.5	.15
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Hydrologic Group C/D

Creasy	.28	1.5	3.0	----
Halsey	.24	2.0	3.5	.15
Lyman (Hollis)	.32	2.0	3.5	----
Mapleton, Stony	.20	2.0	3.5	1.00
Monson	.24	2.0	3.5	----
Swanton	.32	1.5	3.0	.05
Thorndike	.20	2.0	3.5	1.00

- Mesic soil names appear in parenthesis
- Miscellaneous land types are not assigned to a hydrologic group because of the soil's variability.
- Organic soils and those soils mapped above an elevation of 2300 feet (cryic soils) do not appear on this list as they will require special considerations.
- Soils with bedrock within 30" are not given inflow rates because of inadequate available cover for underground drainage conduits. Exceptions to this are Winnecook, Mapleton, and Thorndike, which are generally over bedrock that is rippable.

Sources

- Hydrologic Groups: Interpretation Record Sheets (SCS-SOI-5) SCS.
- Reference: Water Management Guide – Part 1 – Drainage (SCS 1976). Since 1976, values for new soils were established by comparing them to soils with similar properties.

