





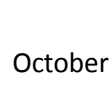


KITTITAS COUNTY

National Earthquake Hazard Reduction Program (NEHRP) Soil Site Classes

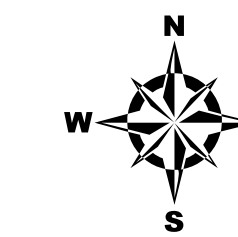
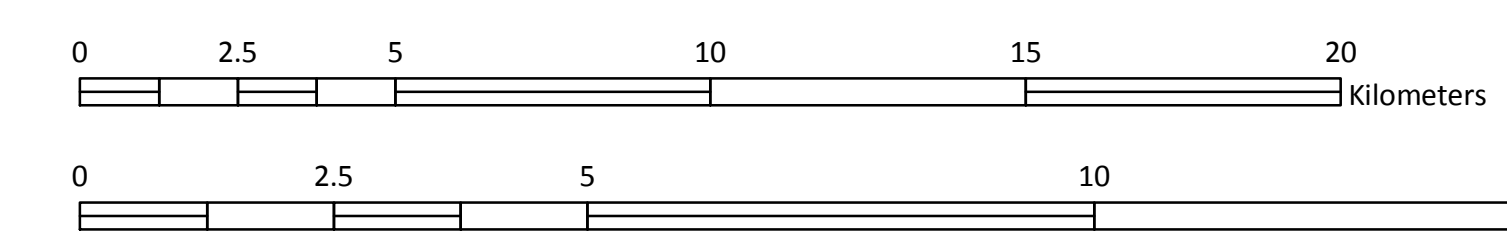
-  Site Class F - Requires site-specific investigation
-  Site Class E - Soft Soil
-  Site Class D - Stiff Soil
-  Site Class C - Very Dense Soil and Soft Rock
-  Site Class B - Rock
-  Water
-  Ice

October 2010

NEHRP Site Class Data
Washington State Department of Natural Resources,
Division of Geology and Earth Resources

1 inch equals 10,000 feet

1:120,000



This site class map provides some measure of the potential for strong shaking in a particular area during an earthquake, and shows best judgment to date of the distribution of the various site classes throughout Washington State. This map is based on surficial geology published at a scale of 1:100,000 by the Washington State Department of Natural Resources, Division of Geology and Earth Resources (Washington Division of Geology and Earth Resources staff, 2001). Designation of site classes was based on a large database of shear wave velocity data obtained in many of the geologic units shown in the 1:100,000-scale geologic mapping. For units without velocity measurements, site class was assigned based on similarity to units in the shear wave database.

In the methodology presented by BSSC (1997), site class B represents a soft rock condition, where earthquake shaking is neither amplified or reduced by the near surface geology. Site classes C, D, and E represent increasingly softer soil conditions which result in a progressively increasing amplification of ground shaking. Site class F is reserved for unusual soil conditions where prediction of the amplification of earthquake shaking can only be determined by a site-specific evaluation. On this map we delineate areas of peat soil as site class F. Liquefiable soils also fall into site class F, but we have not included them on this map; please refer to the liquefaction susceptibility map for more information.

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