

**LANDSLIDE SUSCEPTIBILITY
FOR
ESSEX COUNTY, NEW JERSEY**

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for the
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- None—HAZUS number 0
- Landslide Class A I—strongly cemented rock, slope angle 15-20 degrees (HAZUS number 1)
- Landslide Class A II—strongly cemented rock, slope angle 20-30 degrees (HAZUS number 2)
- Landslide Class A IV—strongly cemented rock, slope angle 30-40 degrees (HAZUS number 5)
- Landslide Class A VI—strongly cemented rock, slope angle > 40 degrees (HAZUS number 7)
- Landslide Class B III—weakly cemented rock and soil, slope angle 10-15 degrees (HAZUS number 3)
- Landslide Class B IV—weakly cemented rock and soil, slope angle 15-20 degrees (HAZUS number 4)
- Landslide Class B V—weakly cemented rock and soil, slope angle 20-30 degrees (HAZUS number 7)

Landslide classes are from the HAZUS User's Manual, Table 9.2 (National Institute of Building Sciences, 1997). Slope angles were measured from the following U. S. Geological Survey 7.5 minute quadrangles: Caldwell, Orange, Pompton Plains, and Roselle (all with 20-foot contour interval), and Paterson and Elizabeth (10-foot contour interval). Slope materials are from Salisbury (1895) and Stanford (1991, 1998, 2000).

REFERENCES CITED

- National Institute of Building Sciences, 1997, HAZUS user's manual: Washington, D. C., National Institute of Building Sciences Publication 5200.
- Salisbury, R. D., 1895, Surface geology: report of progress: N. J. Geological Survey Annual Report for 1894, p. 1-150.
- Stanford, S. D., 1991, Surficial geology of the Roselle quadrangle, Essex, Union, and Morris counties, New Jersey: N. J. Geological Survey Open File Map 8, scale 1:24,000.
- Stanford, S. D., 1998, Surficial geology of the Orange quadrangle, Essex, Passaic, Hudson, and Bergen counties, New Jersey: N. J. Geological Survey Open File Map (in press), scale 1:24,000.
- Stanford, S. D., 2000, Surficial geology of the Elizabeth quadrangle, Essex, Union, and Hudson counties, New Jersey: N. J. Geological Survey Open File Map (in press), scale 1:24,000.

