

# LANDSLIDE SUSCEPTIBILITY FOR UNION COUNTY, NEW JERSEY

Prepared by Scott D. Stanford, New Jersey Geological Survey for the New Jersey State Police, Office of Emergency Management  
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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 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: Chatham, Plainfield, Perth Amboy, and Roselle (all with 20-foot contour interval), and Arthur Kill and Elizabeth (10-foot contour interval). Slope materials are from Salisbury (1895) and Stanford (1991, 1999, 2002).

### 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.

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