## Landslide Incidence and Susceptibility



Tags Landslides

Identification\_Information: Citation: Citation\_Information: Originator: Jonathan W. Godt Publication Date: 200102 Title: Landslide Incidence and Susceptibility in the Conterminous United States Geospatial Data Presentation Form: Vector digital data Series\_Information: Series\_Name: U.S. Geological Survey Open-File Report Issue Identification: 97-289 Publication Information: Publication Place: Reston, VA Publisher: U.S. Geological Survey Other\_Citation\_Details: These data were originally published as: Godt, J.W., 1997, Digital Representation of Landslide Overview Map of the Conterminous United States: U.S. Geological Survey Open-File Report 97-289, scale 1:4,000,000. Available online at <http://landslides.usgs.gov/html\_files/landslides/nationalmap/national.html> Online\_Linkage: <http://nationalatlas.gov/atlasftp.html> Description: Abstract: These data are a digital version of U.S. Geological Survey Professional Paper 1183, Landslide Overview Map of the Conterminous United States. The map and digital data delineate areas in the conterminous United States where large numbers of landslides have occurred and areas which are susceptible to landsliding. Because the data are highly generalized, owing to the small scale and the scarcity of precise landslide information for much of the country, they are unsuitable for local planning or actual site selection. This National Atlas data set was previously distributed as Digital Representation of the Landslide Overview Map of the Conterminous United States. Purpose: These data are intended for geographic display and analysis at the

national level, and for large regional areas. The data should be displayed and analyzed at scales appropriate for 1:4,000,000-scale data. No responsibility is assumed by the U.S. Geological Survey in the use of these data. Supplemental\_Information: The purpose of this data set is to give the user a general indication of areas that may be susceptible to landsliding. It is not suitable for local planning or site selection.

More information on the USGS National Landslides Hazards Program is available at <a href="http://www.landslides.usgs.gov/index.html">http://www.landslides.usgs.gov/index.html</a>.

Time Period of Content: Time\_Period\_Information: Single\_Date/Time: Calendar\_Date: 2001 Currentness\_Reference: Publication date Status: **Progress: Complete** Maintenance\_and\_Update\_Frequency: None planned Spatial Domain: Bounding Coordinates: West Bounding Coordinate: -125 East\_Bounding\_Coordinate: -66 North\_Bounding\_Coordinate: 50 South Bounding Coordinate: 24 Keywords: Theme: Theme\_Keyword\_Thesaurus: None Theme\_Keyword: Landslides Place: Place Keyword Thesaurus: None Place\_Keyword: United States Place\_Keyword: USA Place\_Keyword: Alabama Place\_Keyword: Arizona Place\_Keyword: Arkansas Place Keyword: California Place Keyword: Colorado Place\_Keyword: Connecticut Place\_Keyword: Delaware Place\_Keyword: District of Columbia Place\_Keyword: Florida Place\_Keyword: Georgia Place\_Keyword: Idaho Place Keyword: Illinois Place\_Keyword: Indiana Place\_Keyword: Iowa Place\_Keyword: Kansas Place Keyword: Kentucky Place\_Keyword: Louisiana Place\_Keyword: Maine Place\_Keyword: Maryland Place\_Keyword: Massachusetts Place\_Keyword: Michigan Place\_Keyword: Minnesota Place\_Keyword: Mississippi Place\_Keyword: Missouri

Place\_Keyword: Montana Place\_Keyword: Nebraska Place\_Keyword: Nevada Place\_Keyword: New Hampshire Place\_Keyword: New Jersey Place\_Keyword: New Mexico Place\_Keyword: New York Place\_Keyword: North Carolina Place Keyword: North Dakota Place\_Keyword: Ohio Place\_Keyword: Oklahoma Place\_Keyword: Oregon Place\_Keyword: Pennsylvania Place\_Keyword: Rhode Island Place Keyword: South Carolina Place\_Keyword: South Dakota Place\_Keyword: Tennessee Place Keyword: Texas Place\_Keyword: Utah Place\_Keyword: Vermont Place\_Keyword: Virginia Place\_Keyword: Washington Place\_Keyword: West Virginia Place\_Keyword: Wisconsin Place\_Keyword: Wyoming Access\_Constraints: None Use Constraints: None. Acknowledgment of the National Atlas of the United States of America and (or) the U.S. Geological Survey would be appreciated in products derived from these data. Point of Contact: Contact\_Information: Contact\_Person\_Primary: Contact\_Person: Lynn Highland Contact Organization: U.S. Geological Survey, National Landslide Information Center Contact\_Position: Director Contact\_Address: Address\_Type: Mailing address Address: MS 966 Denver Federal Center Box 25046 City: Denver State or Province: CO Postal Code: 80225 Country: USA Contact\_Voice\_Telephone: 800-654-4966 Contact Facsimile Telephone: 303-273-8600 Contact\_Electronic\_Mail\_Address: highland@usgs.gov Contact\_Instructions: e-mail is the preferred method of contact Data Set Credit: Damon Sather and Jonathan Godt performed the laborious task of integrating the thematic data with the National Atlas coastline data. Native\_Data\_Set\_Environment: Windows NT Version 4.0 (Build 1381) Service Pack 6; ESRI Arc/INFO 8.0.2.405 (ESRI QFE 802p1d 08/31/2000)

Data\_Quality\_Information: Attribute Accuracy: Attribute Accuracy Report: The data are accurate, within visible tolerances, to the original manuscripts. Logical Consistency Report: Digital data were visually inspected and agree with the original manuscripts. Completeness Report: This data set is an overview of landsliding in the conterminous United States. The data are thematic and general in nature. There is no intention to fully describe the extent of landsliding in the conterminous United States. Positional\_Accuracy: Horizontal Positional Accuracy: Horizontal Positional Accuracy Report: No tests for horizontal accuracy have been performed on this data set. Lineage: Source Information: Source Citation: Citation\_Information: Originator: D.H. Radbruch-Hall Originator: R.B. Colton Originator: W.E. Davies Originator: Ivo Lucchitta Originator: B.A. Skipp Originator: D.J. Varnes Publication Date: 1982 Title: Landslide Overview Map of the Conterminous United States Geospatial\_Data\_Presentation\_Form: Map Series\_Information: Series\_Name: U.S. Geological Survey Professional Paper Issue\_Identification: 1183 Publication\_Information: Publication Place: Washington, DC Publisher: U.S. Geological Survey Source Scale Denominator: 3,750,000 Type of Source Media: Stable-base material Source\_Time\_Period\_of\_Content: Time\_Period\_Information: Single\_Date/Time: Calendar\_Date: 1982 Source Currentness Reference: Publication date Source\_Citation\_Abbreviation: LSOVER Source\_Contribution: Spatial and attribute information Source Information: Source Citation: Citation\_Information: Originator: U.S. Geological Survey Publication Date: 1999 Title: State Boundaries of the United States Geospatial\_Data\_Presentation\_Form: Map **Publication Information:** Publication\_Place: Reston, VA Publisher: U.S. Geological Survey

Source\_Scale\_Denominator: 2,000,000 Type of Source Media: Online Source Time Period of Content: Time\_Period\_Information: Range\_of\_Dates/Times: Beginning Date: 1972 Ending\_Date: 1999 Source\_Currentness\_Reference: Ground condition Source Citation Abbreviation: Coastlines Source Contribution: Spatial and attribute information Process Step: Process\_Description: Landslide incidence and susceptibility polygons were digitized from the original stable-base manuscripts at 1:3,750,000 from U.S. Geological Survey Professional Paper 1183. Source\_Used\_Citation\_Abbreviation: LSOVER Process Date: 1997 Process Contact: Contact\_Information: Contact\_Person\_Primary: Contact\_Person: Jonathan W. Godt Contact\_Organization: U.S. Geological Survey Contact Address: Address\_Type: Mailing address Address: MS 966 Denver Federal Center Box 25046 City: Denver State or Province: CO Postal Code: 80225 Country: USA Contact\_Voice\_Telephone: 303-273-8626 Contact\_Facsimile\_Telephone: 303-273-8600 Contact\_Electronic\_Mail\_Address: jgodt@usgs.gov Contact\_Instructions: e-mail is the preferred method of contact Process Step: Process Description: Polygons were closed along the coastline using the National Atlas coastline file. Minor revisions were made to spatial and attribute information in consultation with one of the original authors (D.J. Varnes). Source Used Citation Abbreviation: Coastlines Process\_Date: 2000 Process\_Step: Process Description: Sliver polygons along State lines were eliminated by merging the polygons with the appropriate larger polygon to which they belonged. Adjacent polygons with the same descriptor of landslide incidence and susceptibility (inc\_sus) were merged. Interior State lines were deleted and the attribution was checked. A value of 'no-data' was applied to water areas such as Puget Sound and the Great Lakes. Process\_Date: 2000 Process\_Step: Process Description: Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands were removed from the file.

Process\_Date: 2001

Spatial Data Organization Information: Direct\_Spatial\_Reference\_Method: Vector Point\_and\_Vector\_Object\_Information: SDTS Terms Description: SDTS\_Point\_and\_Vector\_Object\_Type: GT-polygon composed of chains Point\_and\_Vector\_Object\_Count: 2813 Spatial Reference Information: Horizontal\_Coordinate\_System\_Definition: Geographic: Latitude\_Resolution: 0.000278 Longitude\_Resolution: 0.000278 Geographic Coordinate Units: Decimal degrees Geodetic\_Model: Horizontal\_Datum\_Name: North American Datum of 1983 Ellipsoid Name: GRS1980 Semi-major\_Axis: 6378137.000000 Denominator of Flattening Ratio: 298.257222 Entity\_and\_Attribute\_Information: Detailed Description: Entity\_Type: Entity\_Type\_Label: Landslide susceptibility and incidence polygons (described by lsoverp020.dbf) Entity\_Type\_Definition: Landslide incidence and susceptibility Entity Type Definition Source: U.S. Geological Survey Professional Paper 1183 Attribute: Attribute Label: Shape Attribute Definition: The representation of the entity in the data. Attribute\_Definition\_Source: U.S. Geological Survey Attribute Domain Values: Enumerated\_Domain: Enumerated Domain Value: polygon Enumerated Domain Value Definition: 2-dimensional element Enumerated\_Domain\_Value\_Definition\_Source: ESRI GIS software Attribute: Attribute Label: Area Attribute\_Definition: The size of the shape in coverage units. Attribute\_Definition\_Source: U.S. Geological Survey Attribute\_Domain\_Values: Range Domain: Range Domain Minimum: 0.000 Range\_Domain\_Maximum: 618.453 Attribute: Attribute Label: Perimeter Attribute Definition: The perimeter of the shape in coverage units. Attribute\_Definition\_Source: U.S. Geological Survey Attribute\_Domain\_Values: Range\_Domain: Range Domain Minimum: 0.008 Range\_Domain\_Maximum: 1515.642

Attribute: Attribute Label: Lsoverp020 Attribute Definition: Internal feature number. Attribute\_Definition\_Source: U.S. Geological Survey Attribute\_Domain\_Values: Range\_Domain: Range Domain Minimum: 2 Range\_Domain\_Maximum: 2814 Attribute: Attribute Label: Inc sus Attribute\_Definition: A descriptor of landslide incidence and susceptibility. Attribute\_Definition\_Source: U.S. Geological Survey Attribute\_Domain\_Values: Enumerated Domain: Enumerated\_Domain\_Value: combo-hi Enumerated\_Domain\_Value\_Definition: High susceptibility to landsliding and moderate incidence. Enumerated Domain Value Definition Source: U.S. Geological Survey Professional Paper 1183 Enumerated\_Domain: Enumerated\_Domain\_Value: high Enumerated Domain Value Definition: High landslide incidence (more than 15% of the area is involved in landsliding). Enumerated Domain Value Definition Source: U.S. Geological Survey Professional Paper 1183 Enumerated\_Domain: Enumerated Domain Value: low Enumerated\_Domain\_Value\_Definition: Low landslide incidence (less than 1.5 % of the area is involved in landsliding). Enumerated\_Domain\_Value\_Definition\_Source: U.S. Geological Survey Professional Paper 1183 Enumerated Domain: Enumerated Domain Value: mod Enumerated Domain Value Definition: Moderate landslide incidence (1.5 - 15% of the area is involved in landsliding). Enumerated\_Domain\_Value\_Definition\_Source: U.S. Geological Survey Professional Paper 1183 Enumerated\_Domain: Enumerated\_Domain\_Value: no-data Enumerated\_Domain\_Value\_Definition: No data exist for these areas. Enumerated\_Domain\_Value\_Definition\_Source: U.S. Professional Paper 1183 Enumerated Domain: Enumerated\_Domain\_Value: sus-high Enumerated Domain Value Definition: High susceptibility to landsliding and low incidence. Enumerated\_Domain\_Value\_Definition\_Source: U.S. Geological Survey Professional Paper 1183 Enumerated\_Domain: Enumerated\_Domain\_Value: sus-mod Enumerated Domain Value Definition:

Moderate susceptibility to landsliding and low incidence. Enumerated\_Domain\_Value\_Definition\_Source: U.S. Geological Survey Professional Paper 1183

Distribution\_Information: Distributor: Contact\_Information: Contact\_Organization\_Primary: Contact Organization: Earth Science Information Center, U.S. Geological Survey Contact Address: Address\_Type: Mailing address Address: 507 National Center City: Reston State or Province: VA Postal Code: 20192 Contact\_Voice\_Telephone: 1-888-ASK-USGS (1-888-275-8747) Contact\_Voice\_Telephone: 703-648-5920 Contact\_Instructions: In addition to the address above there are other ESIC offices throughout the country. A full list of these offices is at <http://mapping.usgs.gov/esic/esic\_index.html>. **Distribution Liability:** Although these data have been processed successfully on a computer system at the U.S. Geological Survey, no warranty expressed or implied is made by the U.S. Geological Survey regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by the U.S. Geological Survey in the use of these data.

Standard\_Order\_Process: Digital\_Form: Digital\_Transfer\_Information: Format\_Name: ESRI Shapefile Digital\_Transfer\_Option: Online\_Option: Computer\_Contact\_Information: Network\_Address: Network\_Resource\_Name: <http://nationalatlas.gov/atlasftp.html> Digital Transfer Option: Offline\_Option: Offline\_Media: CD-ROM Recording\_Format: tar Digital\_Form: Digital\_Transfer\_Information: Format Name: SDTS Digital\_Transfer\_Option: Online\_Option: Computer\_Contact\_Information: Network\_Address: Network\_Resource\_Name: <http://nationalatlas.gov/atlasftp.html> Digital\_Transfer\_Option: Offline Option:

Offline\_Media: CD-ROM Recording\_Format: tar

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Metadata Reference Information: Metadata\_Date: 20020904 Metadata Contact: Contact\_Information: Contact Person Primary: Contact\_Person: Peg Rawson Contact\_Organization: U.S. Geological Survey Contact Address: Address\_Type: Mailing address Address: 521 National Center City: Reston State or Province: VA Postal Code: 20192 Contact\_Voice\_Telephone: 703-648-4183 Contact\_Electronic\_Mail\_Address: atlasmail@usgs.gov Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata Metadata Standard Version: FGDC-STD-001-1998 Metadata\_Security\_Information: Metadata\_Security\_Classification\_System: None Metadata Security Classification: Unclassified Metadata Security Handling Description: None