SHARED_FP.LSI_DATA

Metadata also available as

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

Identification_Information:
Citation:
Citation_Information:
Originator: Vaugeois, Laura M., and Boyd, Tom
Publication_Date: 4/1/03
Title: SHARED_FP.LSI_DATA
Edition: 2
Geospatial_Data_Presentation_Form: tabular digital data
Series_Information:
Series_Name: landslide hazard zonation project
Issue_Identification: ongoing
Publication_Information:
Publication_Place: olympia
Publisher: WA-DNR-Forest Practices
Other_Citation_Details:
see also: Boyd & Vaugeois, 2003, On the Development of a Statewide Landslide Inventory, Geological Society of America Annual Meeting, absracts with programs; Vaugeois, 2003, Washington's Statewide Landslide Inventory: First Public Draft, Geological Society of America Annual Meeting, absracts with programs.
Online_Linkage:
\\snarf\cal4\kgbfiles\landsi\info\arc0080.dat (internal DNR) external: www.dnr.wa.gov/forestpractices/data
Online_Linkage: www.dnr.wa.gov/forestpractices/data
Larger_Work_Citation:
Citation_Information:
Originator: Laura Vaugeois, Julie Dieu, Mary Raines
Publication_Date: 9/24/03
Title: Landslide Hazard Zonation: Project Proposal and Status Reprt
Geospatial_Data_Presentation_Form: document
Other_Citation_Details:
This project supports the needs of Washington State's Forests and Fish legislation, which calls for identification and avoidance of unstable slope slope areas.
Description:
Abstract:

The LSI_DATA table contains most of the interesting information for the landslide features. It is related to the spatial coverage LSI via the lsi_uniqid item. It is related to another table LSI_SRC_DAT via the src_idno item.
Purpose:
The LSI coverage and related data tables were created to support the Landslide Hazard Zonation Project, which is intended to document the unstable slopes and landforms of the state, on state and private lands
Supplemental_Information:
The tabular portion of this dataset will be undergoing a minor alteration in the near future (by July 1, 2004). The metadata for the alteration will be updated to reflect the alteration at that time.
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 10/31/03
Beginning_Time: unknown
Ending_Date: unknown
Ending_Time: unknown
Currentness_Reference: publication date
Status:
Progress: In work
Maintenance_and_Update_Frequency: Irregular
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate:
REQUIRED: Western-most coordinate of the limit of coverage expressed in longitude.
East_Bounding_Coordinate:
REQUIRED: Eastern-most coordinate of the limit of coverage expressed in longitude.
North_Bounding_Coordinate:
REQUIRED: Northern-most coordinate of the limit of coverage expressed in latitude.
South_Bounding_Coordinate:
REQUIRED: Southern-most coordinate of the limit of coverage expressed in latitude.
Keywords:
Theme:
Theme_Keyword: landslide
Theme_Keyword: mass wasting
Theme_Keyword: glissade
Theme_Keyword: soil slip
Theme_Keyword: mudslide
Place:
Place_Keyword: washington
Place_Keyword: pacific northwest
Access_Constraints:
Once a product license agreement has been agreed to (see the distribution section for details), no constraints are necessary.
Use_Constraints: No Use Constraints
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: laura vaugeois
Contact_Organization: WA-Department of Natural Resources, Forest Practices Division
Contact_Position: Geologist/GIS Specialist
Contact_Address:
Address_Type: mailing address

Address: 1111 Washington St Se
Address: P.O. Box 47012
City: Olympia
State_or_Province: WA
Postal_Code: 98504-7012
Country: USA
Contact_Voice_Telephone: (360) 902-1405
Contact_Facsimile_Telephone: (360) 902-1428
Contact_Electronic_Mail_Address: laura.vaugeois@wadnr.gov
Hours_of_Service: 8am-4:30pm
Contact_Instructions:
I do a fair amount of field work. As such, I am not always available immediately, but will return email and phone messages as soon as possible.
Data_Set_Credit:
This work is based on a compilation of many authors work (see LSI_SRC_DAT for source authors), as well as the dedicated work of the Landslide Hazard Zonation team, working on an UPSAG rule tool development project, in the CMER workplan.
Security_Information:
Security_Classification_System: unclassified
Security_Classification: Unclassified
Security_Handling_Description:
Other than an agreed to product license, there are no security issues regarding this data.
Native_Data_Set_Environment:
Microsoft Windows 2000 Version 5.2 (Build 3790) Service Pack 2; ESRI ArcCatalog 9.2.2.1350
Cross_Reference:
Citation_Information:
Originator: vaugeois, laura and Boyd, Tom
Publication_Date: 4/1/04
Publication_Time: n/a
Title: lsi_data: tabular data for the LSI coverage
Edition: 2
Geospatial_Data_Presentation_Form: tabular digital data
Series_Information:
Series_Name: landslide hazard zonation project
Publication_Information:
Publication_Place: olympia
Publisher: WA-DNR-Forest Practices
Other_Citation_Details:
This table is related to the LSI coverage through the lsi_uniqid item. It is related to two other tables, lsi_src_dat and lsi_dispute_dat via the item sourc_idno for the former and lsi_uniqid for the latter.
Online_Linkage:
/www.dnr.wa.gov/forestpractices/data under the tab marked 'landslides' (available as a bundled zipfile)
Cross_Reference:
Citation_Information:
Originator: vaugeois and boyd, 2003
Publication_Date: 4/1/04
Publication_Time: Unknown
Title: lsi_src_dat-source information for each of the landslide data
Edition: 2
Geospatial_Data_Presentation_Form: tabular digital data
Series_Information:
Series_Name: landslide hazard zonatin project

Publication_Information:
Publication_Place: olympia
Publisher: WA-DNR-Forest Practices
Other_Citation_Details:
the lsi_src_dat file is related to the lsi_data table via the source_idno item.
this is a work in progress, as such, ongoing updates to these databases is occurring.
Online_Linkage:
www.dnr.wa.gov/forestpractices/data under the tab marked 'landslides' (available as a bundled zipfile)
Cross_Reference:
Citation_Information:
Originator: vaugeois and boyd, 2003
Publication_Date: 4/1/04
Publication_Time: Unknown
Title: lsi_dispute_dat-landslide dispute resolution table
Edition: 2
Geospatial_Data_Presentation_Form: tabular digital data
Series_Information:
Series_Name: landslide hazard zonation
Publication_Information:
Publication_Place: olympia
Publisher: WA-DNR-Forest Practices
Other_Citation_Details:
this table is related to the lsi_data table via the common item lsi_uniqid
this is a work in progress, as such, updates to the databases are ongoing.
Online_Linkage:
www.dnr.wa.gov/forestpractices/data under the tab marked 'landslides' (available as a bundled zipfile)

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: No attribute accuracy report is available
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: 50%
Attribute_Accuracy_Explanation:
approximately one half of the landslide inventories that were compiled had tabular data associated with them.
Logical_Consistency_Report:
No tests have been conducted on the logical consistency of this dataset
Completeness_Report:
This data is based on compilations of other authors work. In some cases, authors chose to only share spatial data or the tabular data was incomplete. Due diligence was performed in capturing the intent of the original authors work, but no guarantee of completeness is inferred.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report: n/a: tabular data
Quantitative_Horizontal_Positional_Accuracy_Assessment:
Horizontal_Positional_Accuracy_Value: n/a
Horizontal_Positional_Accuracy_Explanation: tabular data
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Vaugeois & Boyd, compilers from multiple sources and authors.

Publication_Date: 4/1/04
Title: multiple sources and authors
Edition: 2
Geospatial_Data_Presentation_Form: tabular digital data
Series_Information:
Series_Name: landslide hazard zonation project
Issue_Identification: landslide inventory
Publication_Information:
Publication_Place: olympia
Publisher: wa-dnr-forest practices
Other_Citation_Details:
see the lsi_src_dat for details on source and author informaiton
Online_Linkage: none
Source_Scale_Denominator: n/a: tabular data
Type_of_Source_Media: digital tabular data, paper tabular data
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 10/31/03
Beginning_Time: unknown
Ending_Date: unknown
Ending_Time: unknown
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: spd, ppr
Source_Contribution:
various authors have supplied tabular data to accompany the spatial inventory of landslides
Process_Step:
Process_Description:
The compilation involved normalizing the data provided onto a standard data frame. Ongoing updates through the landslide hazard zonation project involve converting data collected in the standardized format (in excel) into info, then merging it with the whole dataset.
Source_Used_Citation_Abbreviation: \\jabba\cal4\landslides\lsi_data
Process_Date: ongoing
Process_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: tom boyd
Contact_Organization: WA-DNR-Forest Practices Division
Contact_Position: Cartographer
Contact_Address:
Address_Type: mailing address
Address: 1111 Washington St SE
Address: P.O. Box 47012
City: Olympia
State_or_Province: WA
Postal_Code: 98506-7012
Country: usa
Contact_Voice_Telephone: (360) 902-1403
Contact_Facsimile_Telephone: (360) 902-1428
Contact_Electronic_Mail_Address: tom.boyd@wadnr.gov
Hours_of_Service: 7am-3:30pm
Process_Step:

Process_Description: Dataset copied.
Source_Used_Citation_Abbreviation:
Server=panhead; Service=esri_user; User=JFVV490; Version=SDE.DEFAULT
Process_Step:
Process_Description: Dataset copied.
Source_Used_Citation_Abbreviation:
\\DNRFS2\GIS\AM on UNIX\cal3\jwfdata\lsi_dir\lsi_FC_fr_USERf.gdb

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Spatial_Data_Organization_Information:
Indirect_Spatial_Reference:
tabular data that relates to the spatial LSI data by the lsi_uniqid item

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: SHARED_FP.LSI_DATA
Entity_Type_Definition:
tabular data to support the LSI coverage. related via the common item lsi_uniqid
Entity_Type_Definition_Source: LHZ project
Attribute:
Attribute_Label: TYPE
Attribute:
Attribute_Label: LSI_UNIQID
Attribute_Definition: unique numeric identifier for every slide
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: unique value for every landslide in the state
Enumerated_Domain_Value_Definition:
every unique landslide feature must have a unique number to relate the tabular data to
Enumerated_Domain_Value_Definition_Source: calculated
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: every landslide has a unique number
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: SLIDE_ID
Attribute_Definition:
author-defined unique identifer for every landslide in their study
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: numeric, non-unique
Enumerated_Domain_Value_Definition:
author-defined unique identifer for every landslide in their study, used to relate the author's original data to the standardized data fram
Enumerated_Domain_Value_Definition_Source: lhz project
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation:
when authors did not provide unique identifiers, we calculated them for the purposes of this project
Attribute_Measurement_Frequency: None planned
Attribute:
Attribute_Label: SOURCE_IDNO
Attribute_Definition:
unique numeric relate item to LSI_SRC_DAT table, describing the source of this data element
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1-999
Enumerated_Domain_Value_Definition:
unique numeric relate item to LSI_SRC_DAT table, describing the source of this data element
Enumerated_Domain_Value_Definition_Source: lhz project
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: the source is known for all data elements
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: LSI_PROCESS
Attribute_Definition: describes the failure(landslide) process
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: shallow-rapid
Enumerated_Domain_Value_Definition_Source: lhz project
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: debris flow
Enumerated_Domain_Value_Definition_Source:
most of the value definitions are agreed upon representations of landslide types, based partially in scientific literature and by consensus of the Upslope Processes Scientific Advisory Group
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: debris slide/avalanche
Enumerated_Domain_Value_Definition_Source: lhz project
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: deep seated
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: shallow, sporadic deep seated
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 6
Enumerated_Domain_Value_Definition: large persistent deep seated
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis

Enumerated_Domain:
Enumerated_Domain_Value: 7
Enumerated_Domain_Value_Definition: earthflow
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 8
Enumerated_Domain_Value_Definition: rock topple
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 9
Enumerated_Domain_Value_Definition: snow avalanche
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: unknown-varies by author
Attribute_Value_Accuracy_Explanation:
different authors have varying ability to accurately identify process, additionally, not all authors provided information on process and in most cases, this value was identified remotely
Attribute_Measurement_Frequency: Irregular
Attribute:
Attribute_Label: CERTAINTY
Attribute_Definition: how certain the author was of the landslide identification
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: d
Enumerated_Domain_Value_Definition: author was certain that the feature identified was a landslide
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: p
Enumerated_Domain_Value_Definition:
author was almost certain (probable) that the feature was a landslide
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: q
Enumerated_Domain_Value_Definition:
author is not certain that the feature was a landslide (questionable)
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: author-described certainty of feature identification
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: ID_DATE
Attribute_Definition: date of identification
Attribute_Definition_Source: lhz project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: calendar year of identification

Enumerated_Domain_Value_Definition: when uncertain, best estimate of failure date is made
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: within 10 years
Attribute_Value_Accuracy_Explanation:
throughout most of washington, slide scars are revegetated within 15 years
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: LS_SIZE
Attribute_Definition: estimated size of failure
Attribute_Definition_Source: Watershed Analysis
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: very small (1-100 square yards)
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: small (101-500 square yards)
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: medium (501-2000 sq. yrds)
Enumerated_Domain_Value_Definition_Source: lhz project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: large (2001-5000 sq yds)
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: very large (greater than 5000 sq yds)
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
different authors have differing ability to estimate size accurately
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: ID2_DATE
Attribute_Definition:
next year of landslide identification, if slide has changed size or shape
Attribute_Definition_Source: lhz project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: calendar year of next identified landslide movement
Enumerated_Domain_Value_Definition:
next year of landslide identification, if slide has changed size or shape
Beginning_Date_of_Attribute_Values: 10/31/03

Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation: some slides do not move again after initial movement
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: ID2_SIZE
Attribute_Definition: approximate size at ID2_date
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: very small
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: small
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: medium
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: large
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: very large
Enumerated_Domain_Value_Definition_Source: lhz and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
not all landslides continue moving after their initial first movement.
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: LANDFORM
Attribute_Definition: the geomorphic feature the landslide occured on
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: inner gorge
Enumerated_Domain_Value_Definition_Source: Washington Administrative Code (WAC) and LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: bedrock hollow
Enumerated_Domain_Value_Definition_Source: Washington Administrative Code (WAC) and LHZ project

Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: avalanch chute
Enumerated_Domain_Value_Definition_Source: Washington Administrative Code (WAC) and LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: terrace face
Enumerated_Domain_Value_Definition_Source: Washington Administrative Code (WAC) and LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: headwall
Enumerated_Domain_Value_Definition_Source: Washington Administrative Code (WAC) and LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 6
Enumerated_Domain_Value_Definition: rock outcrop
Enumerated_Domain_Value_Definition_Source: LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 7
Enumerated_Domain_Value_Definition: other
Enumerated_Domain_Value_Definition_Source: LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 8
Enumerated_Domain_Value_Definition: deep seated landslide
Enumerated_Domain_Value_Definition_Source: LHZ project
Enumerated_Domain:
Enumerated_Domain_Value: 9
Enumerated_Domain_Value_Definition: stream influenced
Enumerated_Domain_Value_Definition_Source: LHZ project
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
not all authors from the compiled work collected this information. the LHZ team collects this information as part of their study.
Attribute_Measurement_Frequency: None planned
Attribute:
Attribute_Label: SLP_SHP
Attribute_Definition: the planimetric shape of the slope on which the slide occurred
Attribute_Definition_Source: lhz project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: concave-curved like the inner surface of a ball
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: concave-planar
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis

Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: planar-a straight, uncurved slope
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: planar-convex
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: convex-curved like the outer surface of a ball
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
not all authors collected this information. the LHZ team collects this information
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: GRADIENT
Attribute_Definition: the percent slope on which the landslide failed
Attribute_Definition_Source: field, photo, or calculated from a DEM
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 999
Attribute_Units_of_Measure: percent slope
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: 70%
Attribute_Value_Accuracy_Explanation:
nearly all authors collected this information. In the future, where missing, this data will be calculated from the DEM.
Attribute_Measurement_Frequency: As needed
Attribute:
Attribute_Label: DELIVERY
Attribute_Definition:
does the landslide deliver to a rule-identified public resource or threaten public safety
Attribute_Definition_Source: lhz project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: y
Enumerated_Domain_Value_Definition: delivery occurred (visible)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: n
Enumerated_Domain_Value_Definition: delivery did not occur
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: p

Enumerated_Domain_Value_Definition: probable delivery occured (not visible, but proximal suggetive)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: i
Enumerated_Domain_Value_Definition: indeterminant whether sediment delivered or not
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
not all authors collect this information, nor collect it uniformly. the LHZ team collects this information
Attribute_Measurement_Frequency: None planned
Attribute:
Attribute_Label: LANDUSE
Attribute_Definition:
associated landuse or activity on site when failure was observed
Attribute_Definition_Source: LHZ project
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: clearcut (timber 0-5 yrs)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 2
Enumerated_Domain_Value_Definition: young stands (timber 5-15 years)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 3
Enumerated_Domain_Value_Definition: submature timber (15-50 years)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 4
Enumerated_Domain_Value_Definition: mature timber (greater than 50 years)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 5
Enumerated_Domain_Value_Definition: road or culvert
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 6
Enumerated_Domain_Value_Definition: partial cut
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 7
Enumerated_Domain_Value_Definition: yarding scar
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:
Enumerated_Domain_Value: 8
Enumerated_Domain_Value_Definition: alpine area
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Enumerated_Domain:

Enumerated_Domain_Value: 9
Enumerated_Domain_Value_Definition: other (i.e. non-forest use, e.g., housing, agriculture)
Enumerated_Domain_Value_Definition_Source: LHZ project and watershed analysis
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: 70%
Attribute_Value_Accuracy_Explanation: not all authors collected this information
Attribute_Measurement_Frequency: None planned
Attribute:
Attribute_Label: INIT_ELEV
Attribute_Definition: elevation(in feet) of the landslide initiation site
Attribute_Definition_Source: topographic sheets or DEM
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100000
Attribute_Units_of_Measure: feet
Attribute_Measurement_Resolution: 40 feet
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation:
not all authors collected this information. in the future, this value will be calculated from DEMs where missing.
Attribute_Measurement_Frequency: Irregular
Attribute:
Attribute_Label: PHOTO_NUM
Attribute_Definition:
the full photo number the slide was identified on (if appropriate)
Attribute_Definition_Source: photo
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value:
character field that represents the ful photo number the slide was identified on
Enumerated_Domain_Value_Definition: e.g. sppc12-24-123
Beginning_Date_of_Attribute_Values: 10/31/03
Ending_Date_of_Attribute_Values: unknown
Attribute_Value_Accuracy_Information:
Attribute_Value_Accuracy: variable
Attribute_Value_Accuracy_Explanation: not all authors collected this information.
Attribute_Measurement_Frequency: None planned
Attribute:
Attribute_Label: ACTIVITY_LEVEL
Attribute:
Attribute_Label: OBJECTID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.

Detailed_Description:
Entity_Type:
Entity_Type_Label: SHARED_FP.LSI_DATA_LSI_SRC_DAT

Distribution_Information:
Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: WA-DNR-FOrest Practices Division
Contact_Address:
Address_Type: mailing address
Address: 1111 Washington St SE
Address: P.O. Box 47012
City: Olympia
State_or_Province: WA
Postal_Code: 98504-7012
Country: usa
Contact_Voice_Telephone: (360) 902-1400
Contact_Facsimile_Telephone: (360) 902-1428
Hours_of_Service: 8am-4:30pm
Resource_Description: lsi_data
Distribution_Liability:
Distributor makes no statement about the quality of the compiled data, other than that due diligence was performed in compiling the information that was provided. Other liability statements are found in the product license agreement.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: ARCE
Format_Version_Number: 7.3
Format_Specification: arc/info export tabular file
Format_Information_Content:
tabular attribute data for LSI coverage, related via uniqid item
File_Decompression_Technique: winzip
Transfer_Size: 1.418
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: /www.dnr.wa.gov/forestpractices/data
Access_Instructions:
login to website, scroll down to landslides, click on 'e00' hyperlink. a pop-up window will provide a data license agreement. if agreed, a zipfile containing this file and all the related information will begin to download to the location of your preference.
Online_Computer_and_Operating_System: unix
Offline_Option:
Offline_Media: n/a
Fees: none
Ordering_Instructions:
log into /www.dnr.wa.gov/forestpractices/data. scroll to the part marked landslides. click on the hyperlink marked "E00". a product license agreement (PLA) will pop-up. if you agree to the PLA, then the data will begin to download.

Turnaround: free web download
Custom_Order_Process:
Due to budget and staffing cutbacks, this data is not available in any custom format.
Technical_Prerequisites:
This data is provided as an arc/info export file. It is readable in any of the Arc software, as well as a variety of other GISs.
Available_Time_Period:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 10/31/03
Beginning_Time: unknown
Ending_Date: unknown
Ending_Time: unknown

Metadata_Reference_Information:
Metadata_Date: 20070904
Metadata_Review_Date: 20040701
Metadata_Future_Review_Date: as needed
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: laura vaugeois
Contact_Organization: WA DNR-Forest Practices Division
Contact_Position: Geologist/GIS Specialist
Contact_Address:
Address_Type: mailing address
Address: 1111 Washington St SE
Address: P.O. Box 47012
City: Olympia
State_or_Province: WA
Postal_Code: 98504-7012
Contact_Voice_Telephone: (360) 902-1405
Contact_Facsimile_Telephone: (360) 902-1428
Contact_Electronic_Mail_Address: laura.vaugeois@wadnr.gov
Hours_of_Service: 8am-4:30
Contact_Instructions:
I do a fair amount of field work. As such, I am not always immediately available.
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Access_Constraints: no constraints on access to metadata
Metadata_Use_Constraints: no constraints on use of metadata
Metadata_Security_Information:
Metadata_Security_Classification_System: unclassified
Metadata_Security_Classification: unclassified
Metadata_Security_Handling_Description:
metadata is automatically downloaded with the data from the web.
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile
