



DesInventar: The Project

- ***Some Hypothesis that inspired the project***
 - *Disasters are a problem of Development*
 - *Natural disasters are not so “natural”*
 - *Impact of Disasters is growing*
 - *Small and medium disasters impact is extremely high*
 - *Small and medium disasters occurrence patterns can show vulnerability*



What is DesInventar

- A methodology
- A set of Software Tools

DesInventar Contexts

- Historical Disaster database
- Post-disaster damage data collection tool



DesInventar Methodology:

... essentially proposes the collection of homogeneous data about disasters of all scales. The information compiled and processed is entered in a scale of time and referenced to a relatively small geographic unit.



DesInventar Methodology:

- Concepts
- Definitions
- Glossary of Events and Effects
- Recommendations & How to's
- Analysis suggestions

Bangkok, Thailand March 2-4 2006



DesInventar Methodology:

Concepts:

Vulnerability

Hazard

Risk

Geography

Bangkok, Thailand March 2-4 2006



DesInventar Methodology:

Definition:

“Event” is defined as any social-natural phenomena that can be considered as a threat to life, properties, infrastructure and environment.



DesInventar Methodology:

Definition:

“Disaster” is defined as **the set of adverse effects** caused by social-natural and natural phenomena on human life, properties, infrastructure and environment (an “Event”) **within a specific geographic unit during a given period of time.**



DesInventar Methodology:

- Geography:
 - multi-layered area units
 - Hierarchical structure (currently limited to three levels)
 - Usually Administrative boundaries
 - Challenge: Selecting the maximum resolution



DesInventar Methodology:

GLOSARY OF TERMS: EVENTS

ACCIDENT	HAILSTORM
FLASH FLOOD (ALLUVION)	HEAT WAVE
AVALANCHE	LANDSLIDE
BIOLOGICAL DISASTER	LEAK
COASTLINE EROSION	LIQUEFACTION
DROUGHT	TSUNAMI
EARTHQUAKE	PLAGUE
ELECTRIC STORM	POLLUTION
EPIDEMIC	RAINS
VOLCANIC ERUPTION	SEDIMENTATION
EXPLOSION	SNOWSTORM
FAILURE	SPATE
FIRE	STORM
FLOOD	WINDSTORM
FOREST FIRE	STRUCTURE
FROST	SURGE

Bangkok, Thailand March 2-4 2006



DesInventar Methodology:

DEFINITIONS OF EFFECTS

EFFECTS

Deaths: 0	<input type="checkbox"/> Missing: 0	<input type="checkbox"/> Injured: 0	Magnitude: <input type="text"/>
Affected: 24	<input checked="" type="checkbox"/> Relocated: 0	<input type="checkbox"/> Damaged Houses.: 0	Losses \$Local: 21000
Evacuated: 0	<input type="checkbox"/> Victims: 0	<input type="checkbox"/> Destroyed Houses: 4	Losses \$USD: 0

Affected Sectors

<input type="checkbox"/> Transportation	<input type="checkbox"/> Communications	<input type="checkbox"/> Relief
<input type="checkbox"/> Agriculture	<input type="checkbox"/> Water supply	<input type="checkbox"/> Sewerage
<input type="checkbox"/> Power and Energy	<input type="checkbox"/> Industries	<input type="checkbox"/> Education
<input checked="" type="checkbox"/> Other sectors	<input type="checkbox"/> Health sector	

Damages in roads Mts:

Damages in crops Ha:

Lost Cattle:

Education centers:

Hospitals:

OTHER LOSSES:

Comments:

All the victims are belongs to Scheduled Tribes.

By: prakash Date:

Bangkok, Thailand March 2-4 2006



DesInventar Methodology:

- Recommendations & How to's:
 - Selection of Boundaries
 - Choosing the maximum resolution
 - Selecting Codes (and names)
 - The Period of the research
 - Selection of sources



DesInventar Methodology:

- Recommendations & How to's:
 - When disaggregated data is unavailable
 - Discrepancies among sources
 - “Chained” events
 - When geographical units are split
 - Long duration events



DesInventar Methodology:

- Preliminary Analysis Methods
 - Composition of disasters (type and effects)
 - Temporal analysis
 - Spatial distribution analysis
 - Cause-effect analysis
 - Statistical measures: (mean, max, deviation, variance)
- Output to external tools



DesInventar: The Tool

- ***Potential Uses of DesInventar***
 - *Input as vulnerability layer for Risk assessment models ('proxy' indicators)*
 - *Support for plans (Preparedness, Risk Mitigation, etc)*
 - *Follow-up of efficiency of these plans*
 - *Validation of Risk & Hazard Maps*
 - *Support for Policies/Regulations and investments*
 - *Strategic advantage for negotiation*
 - *Damage Assessment System in major disasters*
 - *Other applications*



DesInventar: The Tool

- ***Software Tools:***
 - *Version 7 , Server (multi-platform, multi-DB)*
 - *Version 6 (Windows, MS Access)*
 - *Friendly, good & fast results*
 - *Based on Standard Relational database*
 - *Multilingual.*
 - *User Configurable*
 - *GLIDE-compliant*
 - *OPEN-SOURCE*



DesInventar: The Tool

Supported Platforms (Server 7):

- *Windows (95, 2000, XP, 2003)*
- *Linux (Redhat 7,8)*
- *Solaris 8,9*
- *HP-ux 11*
- *MacIntosh (Unix)*



DesInventar: The Tool

Supported Databases (Server 7):

- *MS Access*
- *Oracle 8i, 9i, 10G, Express (free)*
- *MS SQL Server 2000, 2005*
- *PostgreSQL (free, open Source)*
- *MySQL (free)*



DesInventar: The Tool

Supported Application Servers(Server 7):

- *Tomcat (with Apache or Ms-IIS)*
- *Geronimo*
- *WebLogic*
- *WebSphere*
- *Java 2EE compliant.*



DesInventar: The Tool

Accessibility (Server 7):

- *Single User Installation*
- *Intranet*
- *Internet*
- *Distributed (via off-line consolidation or DBMS replication)*



DesInventar: The Tool

Interoperability (Version 6, Server 7):

- *Data:*
 - *MS-Excel,*
 - *MS-Access,*
 - *Ascii Text*
- *GIS:*
 - *ArcView/ArcInfo,*
 - *MapInfo,*
 - *IDRISI,*
 - *Promap*



DesInventar: The Tool

Work in progress (Server 7):

- *Built-in ECLAC methodology support*
- *Support for Images in datacard*
- *Support for email notification*
- *Support for Internet Links*
- *Support for Document attachments*
- *Better Distributed schema (via satellite databases)*



DesInventar: The Tool

DEMO

Bangkok, Thailand March 2-4 2006

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English Español

Query View data View map Charts Statistics Reports Thematic

Region Sri-Lanka Historical - [sk] Query Definition Keyword search (slow):

Select events and geographic units, and set the options that specify the disasters you want to query:

Disaster type	Province	Province	District
FLOOD ERUPTION EARTHQUAKE TSUNAMI LANDSLIDE AVALANCHE ALLUVION DROUGHT HEAT WAVE RAINS STRONG WIND	Central Eastern North-Central Northern North-Western Sabaragamuwa Southern Uva Western		

Use Ctrl-Click and/or Shift-Click to deselect or for multiple selections. If no selections are made, all items will be selected.
NOTE: Selections of Province have precedence over selections of Province

Select only events with::	Select events that affected:	Logic
<input type="checkbox"/> Deaths <input type="checkbox"/> Destroyed Houses <input type="checkbox"/> Victims <input type="checkbox"/> Evacuated <input type="checkbox"/> Hospitals <input type="checkbox"/> Damages in roads Mts <input type="checkbox"/> Lost Cattle	<input type="checkbox"/> Injured <input type="checkbox"/> Damaged Houses <input type="checkbox"/> Affected <input type="checkbox"/> Relocated <input type="checkbox"/> Missing <input type="checkbox"/> Damages in crops Ha <input type="checkbox"/> Education centers	<input type="checkbox"/> Water supply <input type="checkbox"/> Health sector <input type="checkbox"/> Industries <input type="checkbox"/> Communications <input type="checkbox"/> Relief <input type="checkbox"/> Other sectors
	<input type="checkbox"/> Sewerage <input type="checkbox"/> Education <input type="checkbox"/> Transportation <input type="checkbox"/> Power and Energy <input type="checkbox"/> Agriculture	<input type="radio"/> OR <input checked="" type="radio"/> AND



Date range: (YYYY MM DD)
From: [] [] [] To: [] [] [] GLIDNumber: []

Expert Selection [] Expert

Sort results by: Entry order Hits per page: 300

New Query Save Query Load Query Clear form

LA RED

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Region Sri-Lanka Historical - [sk] Query Definition Keyword search (slow):

Select events and geographic units, and set the options that specify the disasters you want to query:

Disaster type	Province	Province	District
FLOOD	Central	Galle	
ERUPTION	Eastern	Hambantota	
EARTHQUAKE	North-Central	Matara	
TSUNAMI	Northern		
LANDSLIDE	North-Western		
AVALANCHE	Sabaragamuwa		
ALLUVION	Southern		
DROUGHT	Uva		
HEAT WAVE	Western		
RAINS			
STRONG WIND			

Use Ctrl-Click and/or Shift-Click to deselect or for multiple selections. If no selections are made, all items will be selected.
NOTE: Selections of Province have precedence over selections of Province

Select only events with::

<input checked="" type="checkbox"/> Deaths	<input type="checkbox"/> Injured
<input type="checkbox"/> Destroyed Houses	<input type="checkbox"/> Damaged Houses
<input type="checkbox"/> Victims	<input type="checkbox"/> Affected
<input type="checkbox"/> Evacuated	<input type="checkbox"/> Relocated
<input type="checkbox"/> Hospitals	<input type="checkbox"/> Missing
<input type="checkbox"/> Damages in roads Mts	<input type="checkbox"/> Damages in crops Ha
<input type="checkbox"/> Lost Cattle	<input type="checkbox"/> Education centers

Select events that affected:

<input type="checkbox"/> Water supply	<input type="checkbox"/> Sewerage
<input type="checkbox"/> Health sector	<input type="checkbox"/> Education
<input type="checkbox"/> Industries	<input type="checkbox"/> Transportation
<input type="checkbox"/> Communications	<input type="checkbox"/> Power and Energy
<input type="checkbox"/> Relief	<input type="checkbox"/> Agriculture
<input type="checkbox"/> Other sectors	

Logic
 OR
 AND



Date range: (YYYY MM DD)
From: [] [] [] To: [] [] [] GLIDNumber: []

Expert Selection [] Expert

Sort results by: Entry order Hits per page: 300

New Query Save Query Load Query Clear form

LA RED

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Query View data View map Charts Statistics Reports Thematic

Region Sri-Lanka Historical - [sk] **Data: Query Results** Results: 155 hits. 1 Pages :

Serial (Click for details)	Event	Province	Province	District	Date	Location	Comments
10117	FLOOD	Southern	Galle	Baddegama	1996/09/19	Unanvitiya, Karupanawa ,Mapalagama,Gammeddegoda	Due to heavy rain Gin gaga was over flowed. Unanvitiya and Karup Baddegama, Udugama road submerged due to this over flowing. Al Gammeddegoda were submerged.Transpotation was interrupted d
10118	FLOOD	Southern	Galle	Welivitiya-Divithura	1996/09/19	Welivitiya	Several areas in welivitiya area were submerged due to the over fl Transpotation in those areas was interrupted.
10139	FLOOD	Southern	Matara	Thihagoda	1996/10/15	Thihagoda	Heavy rain during past few days in Thihagoda area have resulted in tributaries and canals overflowing.Paddy cultivations in flood affects affected.Brick and tile manufactures, rubber tappers and those eng been out of employment.
10140	FLOOD	Southern	Matara	Kamburupitiya	1996/10/15	Kamburupitiya	Heavy rain during past few days in Matara district have resulted in and canals overflowing.Paddy cultivations in flood affected areas ha and tile manufactures, rubber tappers and those engaged in variou employment.
10141	FLOOD	Southern	Matara	Hakmana	1996/10/15	Hakmana	Heavy rain during past few days in Matara district have resulted in and canals overflowing.Paddy cultivations in flood affected areas ha and tile manufactures, rubber tappers and those engaged in variou employment.
10142	FLOOD	Southern	Matara	Akuressa	1996/10/15	Akuressa	Heavy rain during past few days in Matara district have resulted in and canals overflowing.Paddy cultivations in flood affected areas ha and tile manufactures, rubber tappers and those engaged in variou employment.
10143	FLOOD	Southern	Matara	Kotapola	1996/10/15	Morawaka and Deniyaya	Heavy rain during past few days in Matara district have resulted in and canals overflowing.Paddy cultivations in flood affected areas ha and tile manufactures, rubber tappers and those engaged in variou employment.
10144	FLOOD	Southern	Galle	Baddegama	1996/10/15	Diyandara	Heavy rain during past few days in Diyandara area have resulted fl cultivations in flood affected areas have been badly affected.Brick a tappers and those engaged in various odd jobs have been out of e
10145	FLOOD	Southern	Galle		1996/10/19	Galle District	Due to the over flowing of Gin gaga Hiniduma,Nelluwa road and Hin Hiniduma Akuressa roads were submerged.
10530	FLOOD	Southern	Galle	Habaraduwa	2000/09/16	Galle district	over 7800 families have been displaced due to flood in Galle district divisional secretariat division in Galle district have displaced due to gaga.Transpotation also affected.Galle- Mapalagama, Elpitiya-Mapa Bandaragama roads were reported to be impassable.Social service 734,400 rupees to provide essential food items for displaced familie
							Over 5000 families in Matara district have been displaced due to he

Local intranet



Region: Sri-Lanka Historical - [sk]

DataCard

[Back to Search Results](#)

Serial: 12389 Date (YMD) 2003 5 26 Duration (d) 0 Source: DN.2003.05.27p-0118
 Province: Southern Province: Matara District:
 Event: FLOOD Place: In Matara district GLIDNumber:
 Cause: RAIN Description of Cause: Due to hit by flood

EFFECTS

Deaths: 74 Missing: 0 Injured: 0 Magnitude:
 Affected: 304980 Relocated: 0 Damaged Houses.: 7005 Losses \$Local: 0
 Evacuated: 0 Victims: 0 Destroyed Houses: 2389 Losses \$USD: 0

Affected Sectors

Transportation Communications Relief
 Agriculture Water supply Sewerage
 Power and Energy Industries Education
 Other sectors Health sector

Damages in roads Mts: 0
 Damages in crops Ha: 0
 Lost Cattle: 0
 Education centers: 28
 Hospitals: 0

OTHER LOSSES:

Comments:

The highest number of affected persons were reported in Matara with 304980 persons in 60996 families were displaced. Around 74 persons have been died in Matara district according to the news letter (27.05.2005.p-01-18) Around Rs.73500000 have been allocated as a flood relief for Matara district according to the news letter on dated 2003.05.27.p-01-18) ***** Around 2389 houses

By: WAS Date: 29.07.2005

Extension: 61 fields

Males Affected: 0
 Displaced Person: 0
 Females Affected: 0
 Nos of Camps: 0
 Relief cost Rs: 0

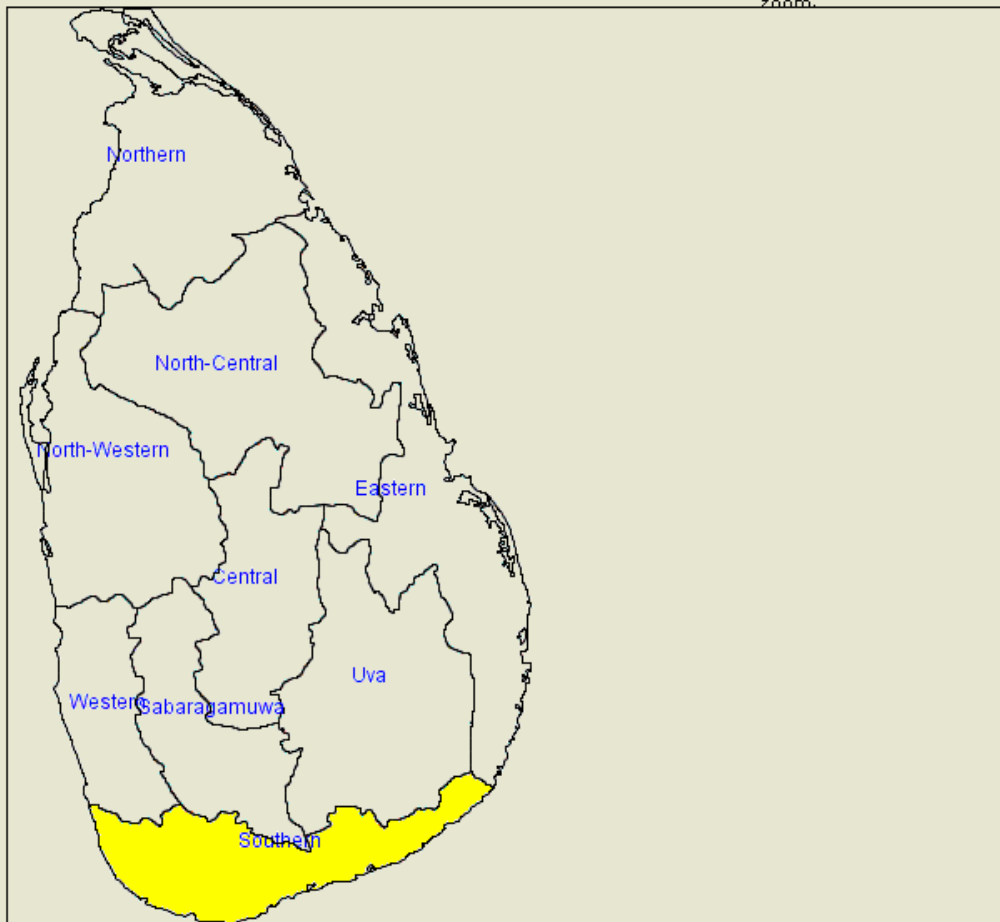


Region Sri-Lanka Historical - [sk]

Administrative Boundaries Map

Click on name to select an area. Double-click for logical zoom.

- Province
- Central
 - Eastern
 - North-Central
 - Northern
 - North-Western
 - Sabaragamuwa
 - Southern**
 - Uva
 - Western



Map width

600

Map height

550

DesConsultar on-line selection Map - Microsoft Internet Explorer

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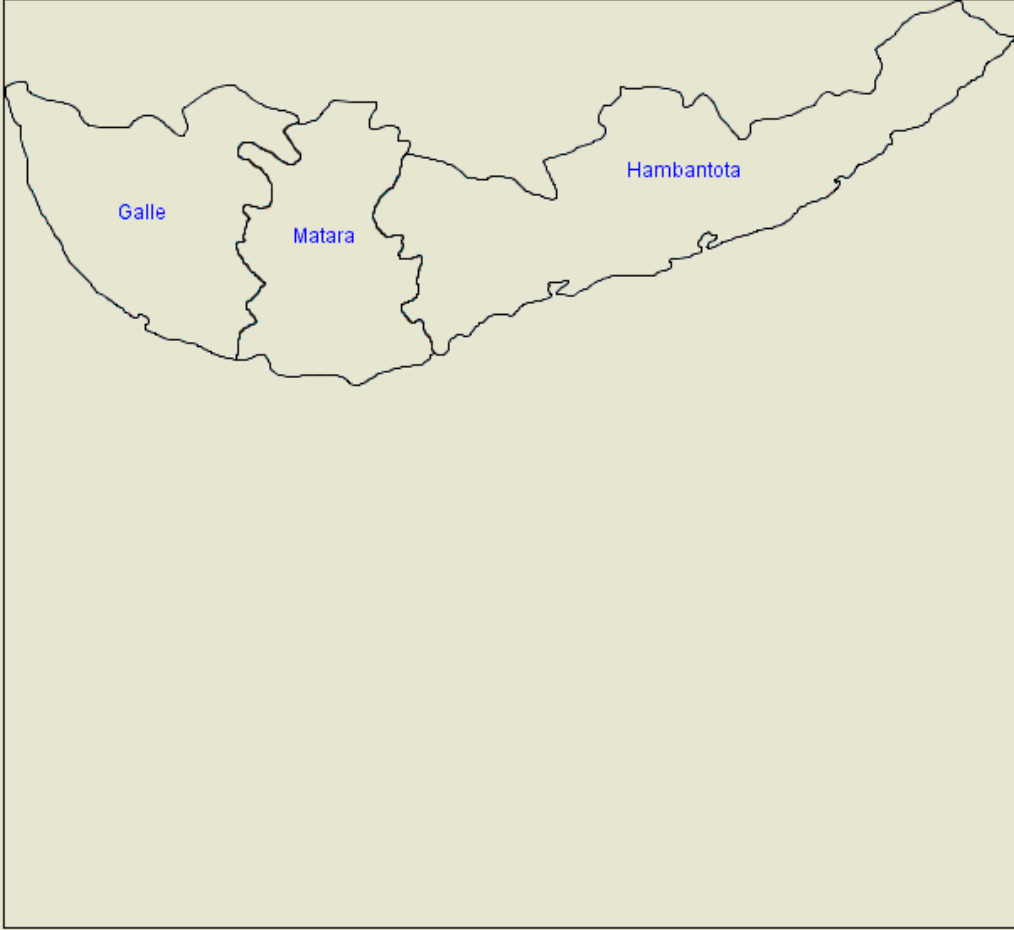
English Español

Query View data View map Charts Statistics Reports Thematic

Region [Sri-Lanka Historical](#) - [sk] **Administrative Boundaries Map** Click on name to select an area. Double-click for logical zoom.

Province

- Galle
- Hambantota
- Matara



Map width: 600

Map height: 550

Map navigation controls: Home, Zoom In, Zoom Out, Home, ABC, Refresh



Region *Sri-Lanka Historical* - [sk]

Chart Generator

Type of Chart

- Temporal Histogram
- Event/Temporal Histogram
- Geographic/Temporal Histogram
- Cause/Temporal Histogram
- Multi-variable Histogram
- Seasonal Histogram
- Comparative by Events
- Comparative by Geography
- Comparative by Cause

Period

- Anual
- Month
- Week
- Day

Season

- Century
- Decade
- Quinquennium (5 yrs)
- Year
- Month

Generate Chart

Variable to be plotted:

- # DataCards
- Deaths
- Injured
- Missing
- Destroyed Houses
- Damaged Houses
- Victims
- Affected
- Relocated
- Evacuated
- Losses \$USD
- Losses \$Local
- Education centers
- Hospitals
- Damages in crops Ha

Chart Features

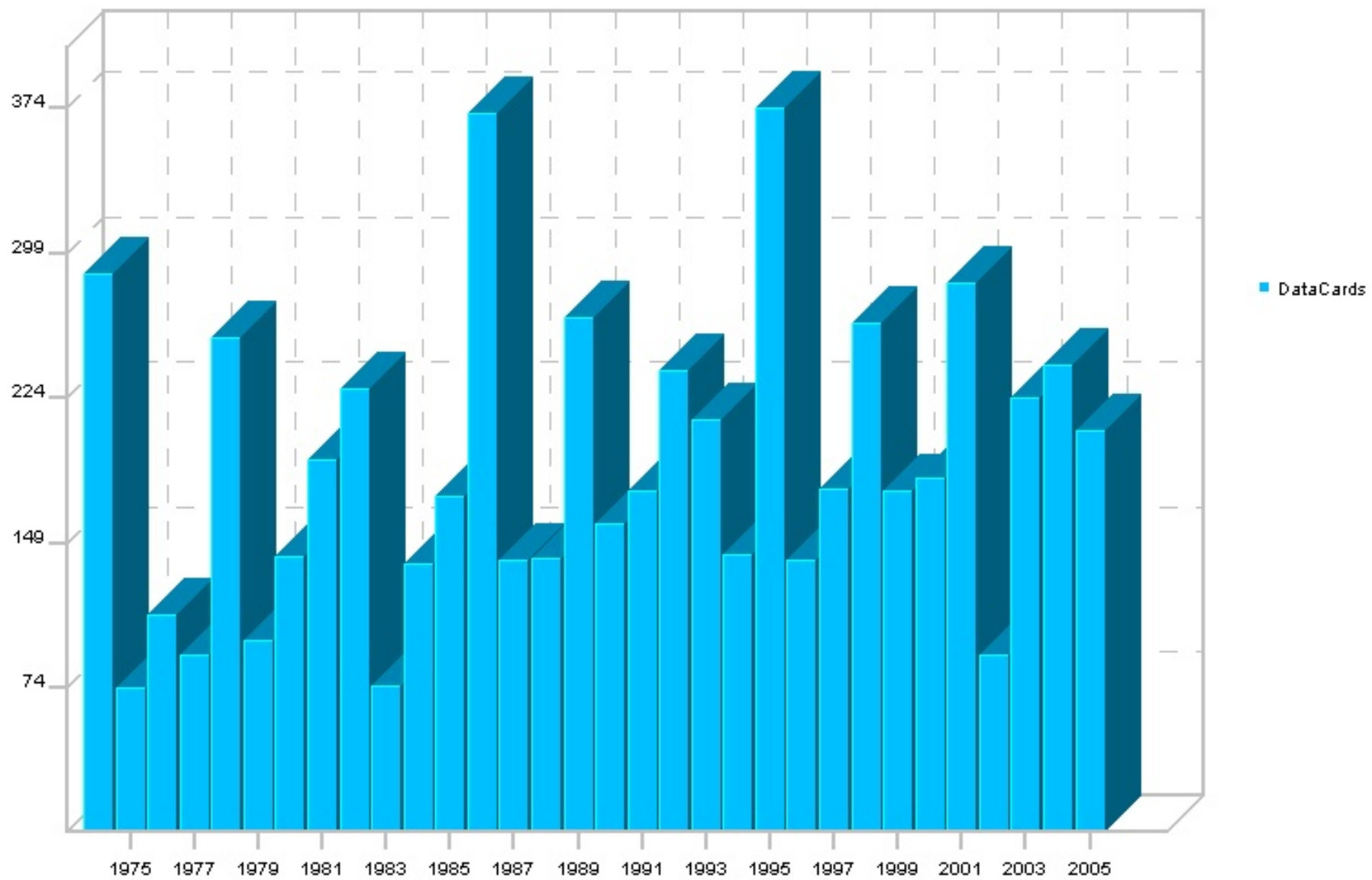
- Bar Chart
- Line Chart
- Pie Chart
- 3D
- 2D
- Color
- B/W
- Normal
- Stacked

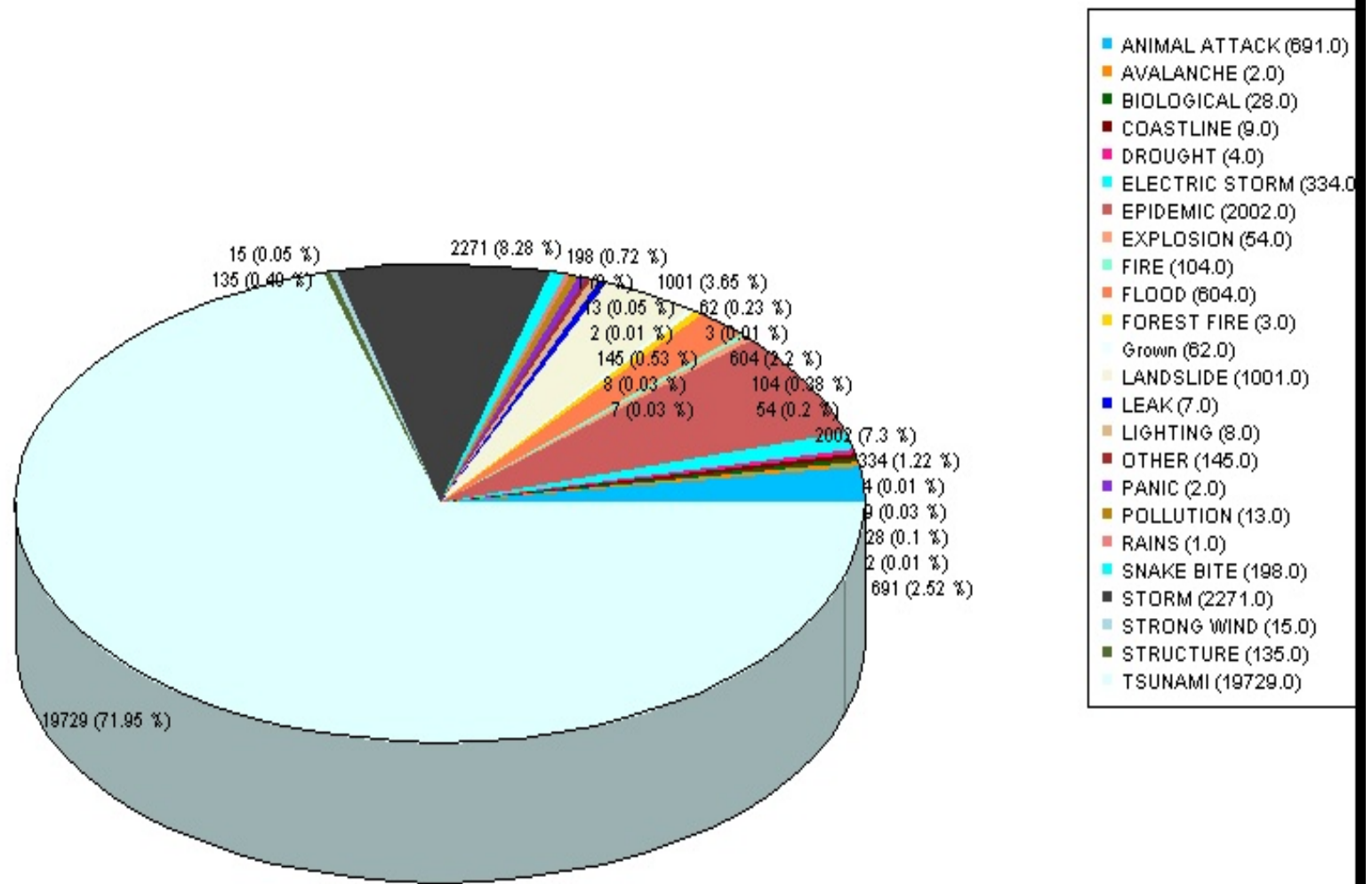
Title:

Subtitle:

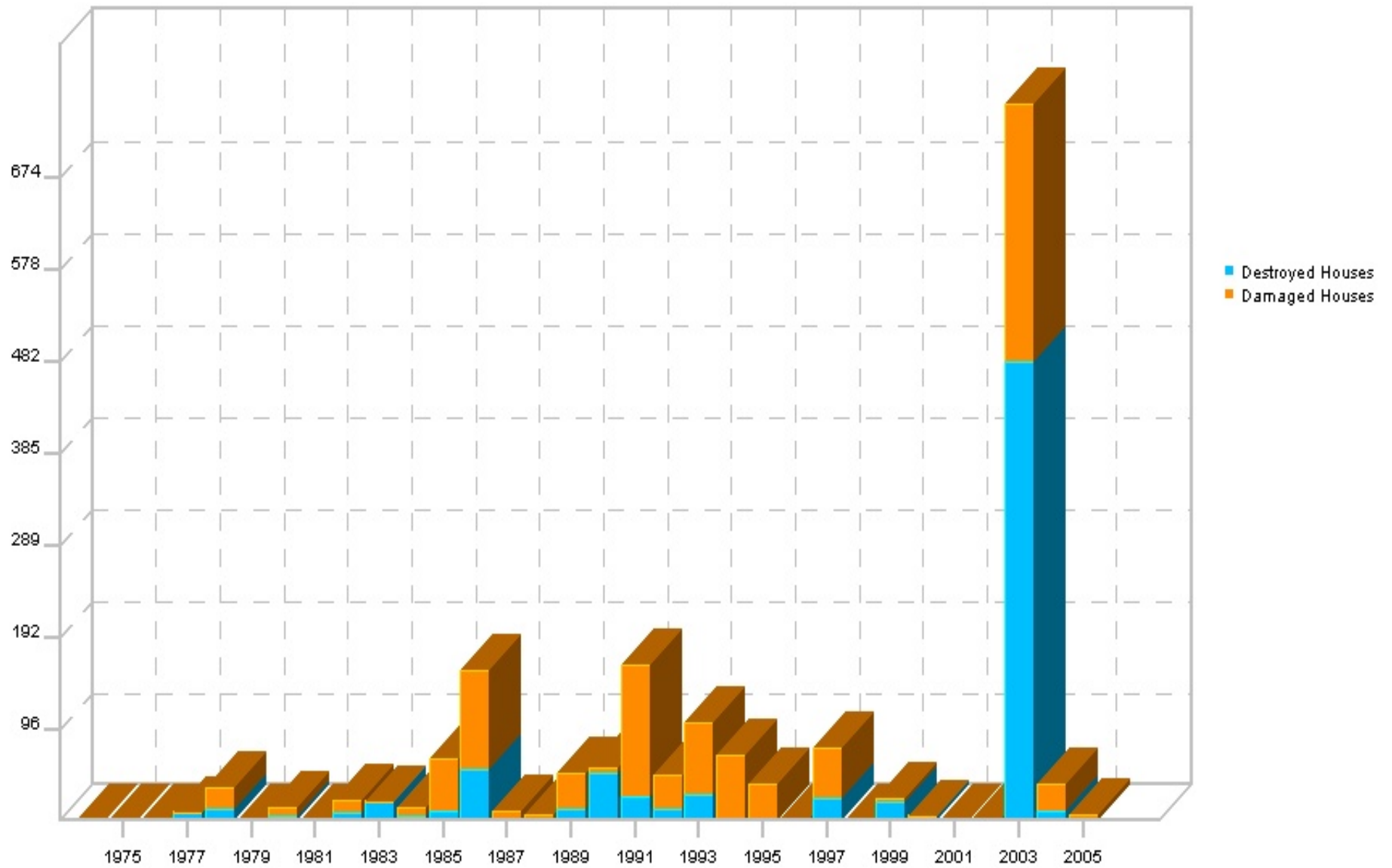
SIZE Width: 800 Height: 600







Landslides in Sri Lanka



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Query View data View map Charts Statistics Reports Thematic

Region: Sri-Lanka Historical - [sk] **Statistics Generator:**

Select the columns you want to appear in your report:

Available		Selected
Losses \$USD	Add >> Remove <<	# DataCards
Losses \$Local		Deaths
Education centers		Injured
Hospitals		Missing
Damages in crops Ha		Destroyed Houses
Lost Cattle		Damaged Houses
Damages in roads Mts		Victims
With Deaths		Affected
With Injured		Relocated
With Missing		Evacuated

Use Ctrl-Click and/or Shift-Click to deselect or for multiple selections.
At least two columns must be selected.

Please define Statistic Functions to produce:

Sum Average Maximum Variance Standard Deviation

Please define your aggregation levels:

First level of totalization:	Second level:	Third level:
Province	Event	Event
District	Province	Province
Division	District	District
Year	Division	Division
Year/month	Year	Year

Don't use Don't use

Continue Report format

Please note that only levels that make sense should be selected. For example, makes no sense to choose District as first level and Province as second level. You can select one, two or all three levels of totalization. The more levels you choose, the more detailed is your statistic.

Done Local intranet

Statistics generated for Sri-Lanka Historical - [sk] [get it as Excel](#)

Province	Event	DataCards	Deaths	Variance Of Deaths	Injured	Variance Of Injured	Missing	Variance Of Missing	Destroyed Houses	Variance Of Destroyed Houses	Damaged Houses	Variance Of Damaged Houses	Vic
Central	ANIMAL ATTACK	143	72	0.7	168	34.96	0	0	146	102.2	47	2.41	
	BIOLOGICAL	39	0	0	0	0	0	0	0	0	0	0	
	DROUGHT	73	0	0	0	0	0	0	0	0	0	0	3,2
	ELECTRIC STORM	27	39	0.95	26	4.42	0	0	1	0.04	11	1.79	
	EPIDEMIC	116	237	37.33	18,585	523,280.12	0	0	0	0	0	0	
	EXPLOSION	4	1	0.25	5	2.25	0	0	0	0	1	0.25	
	FIRE	42	11	0.69	7	0.63	0	0	134	25.18	35	10.43	
	FLOOD	45	21	1.53	0	0	0	0	110	223.43	1,787	50,272.35	
	FOREST FIRE	14	2	0.29	0	0	0	0	5	1.79	0	0	
	FROST	2	0	0	0	0	0	0	0	0	0	0	
	Grown	6	6	0.4	1	0.17	0	0	0	0	0	0	
	HAILSTORM	1	0	0	0	0	0	0	0	0	0	0	
	LANDSLIDE	114	187	19.35	67	9.34	3	0.08	460	814.71	218	104.81	
	LIGHTING	2	1	0.5	0	0	0	0	0	0	2	0	
	OTHER	11	10	0.89	22	32.2	0	0	0	0	0	0	
	POLLUTION	25	0	0	620	5,750.83	0	0	0	0	0	0	
	RAINS	19	1	0.05	1	0.05	0	0	0	0	113	355.39	
	SEDIMENTATION	3	0	0	0	0	0	0	0	0	0	0	
	SNAKE BITE	14	14	0	0	0	0	0	0	0	0	0	
	STORM	9	31	27.78	1	0.11	0	0	500	27,777.78	65	394.44	
STRONG WIND	25	1	0.04	1	0.04	0	0	34	17.99	721	6,452.39		
STRUCTURE	4	4	0	2	1	0	0	0	0	0	0		
Eastern	ANIMAL ATTACK	84	75	2.55	30	0.76	0	0	45	9.55	76	29.41	
	AVALANCHE	1	2	0	14	0	0	0	0	0	0	0	
	BIOLOGICAL	27	2	0.15	0	0	0	0	0	0	0	0	
	COASTLINE	7	0	0	0	0	0	0	0	0	7	7	
	Cyclone	1	0	0	0	0	0	0	0	0	0	0	
	DROUGHT	39	0	0	0	0	0	0	0	0	0	0	

DesConsultar on-line Thematic map specification - Microsoft Internet Explorer

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Query View data View map Charts Statistics Reports Thematic

Region: Sri-Lanka Historical - [sk] Thematic Map Generator

Ranges		
Upper Limit	Color	Legend
48	#ffff88	
198	#ffcc00	
280	#ff8800	
556	#ff0000	
3192	#bb0000	
	#770000	

Calculate: Iso-ranges Equ-ranges Gradient

Variable to be plotted:

- # DataCards
- Deaths
- Injured
- Missing
- Destroyed Houses
- Damaged Houses
- Victims
- Affected
- Relocated
- Evacuated
- Losses \$USD
- Losses \$Local
- Education centers
- Hospitals
- Damages in crops Ha

Type of Area ID

- No Id shown
- Show codes
- Show names

Legend type

- Fill areas
- Discs
- Bars
- Show Values

Selection level

- Province
- District

Output level

- Province
- District
- Division

Generate Map

Map Features

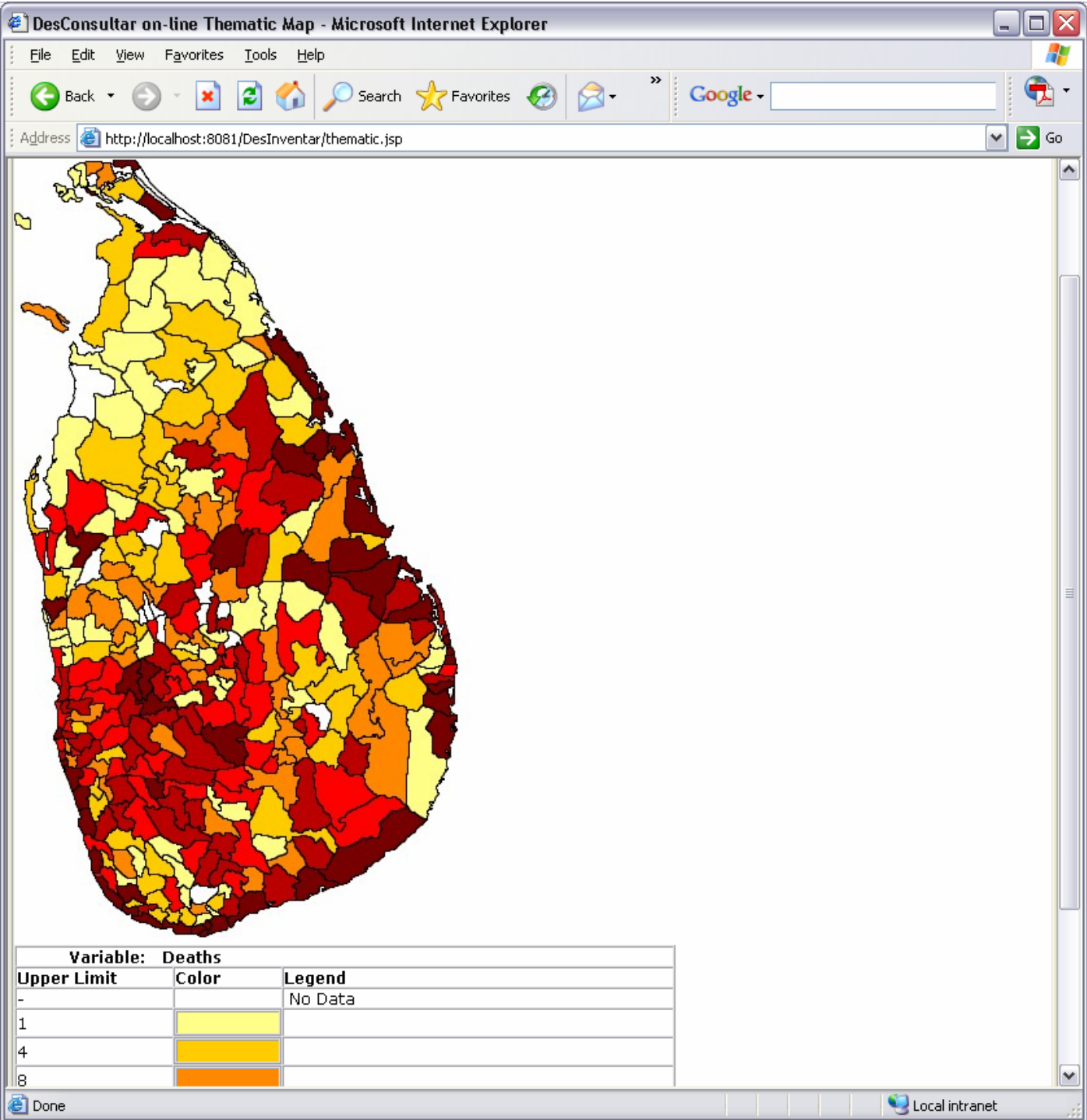
- Color
- B/W

Title: Landslides in Sri Lanka

Subtitle:

SIZE Width: 900 Height: 600

Local intranet



DesInventar on-line : Sri-Lanka Historical Home - Microsoft Internet Explorer

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Region Geography Events Causes Extension Query Edit Data Data Entry Admin Security

Welcome to DesInventar on-line, !!

This *DesInventar* database management module will let you add, edit and obtain basic data about effects of disasters in your regions and countries. This software has been developed as part of the *LA RED's DesInventar Project*.

You are authorized to work with:

- Colombia
- Colombia Oracle
- Guyana
- India - template
- Indonesia Tsunami
- Maldives POSTGRES
- Orissa (India)
- Orissa (Postgres)
- Sri Lanka - Tsunami
- Sri-Lanka Historical

LA RED

DesInventar

UNDP

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DesInventar on-line : Sri-Lanka Historical Geography manager - Microsoft Internet Explorer

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Region Geography Events Causes Extension Query Edit Data Data Entry Admin Security

Region *Sri-Lanka Historical* - [sk]

Management of: Province



- 002 - Central
- 005 - Eastern
- 007 - North-Central
- 004 - Northern
- 006 - North-Western
- 009 - Sabaragamuwa
- 003 - Southern
- 008 - Uva
- 001 - Western

Add Province Edit Province Delete Province

Manage District of this Province

Manage Levels

LA RED



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DesInventar on-line : Sri-Lanka Historical Administration - Microsoft Internet Explorer

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Region Geography Events Causes Extension Query Edit Data Data Entry Admin Security

General Administrative Functions:

- Region Administration
- Parameter Administration



Data Administration Functions [Sri-Lanka Historical]:

- Full text re-index of this Region
- Integrate a new Map for this region
- Import an MS ACCESS DesInventar 6.x Database

Useful Links:

- Query this region with DesConsultar on-line
- Logout
- Reload Translations

LA RED



Local intranet



DesInventar: The Tool

THANK YOU

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