

## **2. MAN MADE DISASTERS**

### **2.1. SUDDEN**

#### **2.1.1. Transport or Structural Accident**

\* **Structural Collapse**

The disaster type "structural collapse" is used when the structure collapse results independently, without any outside force. If the collapse is due to an outside force such as an earthquake, tornado, or explosion, then it is classified under the initial causal factor.

**Building Collapse** entails the sudden falling apart of a building in the absence of any outside force.

**Mine Collapse** or a mine cave-in takes place in an excavation below the earth's surface. In a cave-in, parts of the overlying rocks fall down and tunnels are blocked.

\* **Transport Accidents**

**Air Disasters**: involve violent impacts of aircraft which transport passengers or freight.

**Land Disasters**: include collisions or derailments of freight or passenger trains or vehicles in towns and in the country.

**Sea Disasters**: involve ships. Ships may sink in a storm, explode, burn, crash into each other, crash into an iceberg or rock, capsize, or vanish without explanation.

Note : Sea disasters caused by conflict are classified under Conflict. Sea Disasters which result in oil slicks are classified under Industrial/Technological accident (Pollution).

#### **2.1.2. Industrial / Technological accident**

Accidental release occurring during the production, transportation or handling of hazardous chemical substances

\* **Explosions**

Disasters will only be classified as explosions when the explosion is the actual disaster. If the explosion is the cause of another disaster, the event will be classified as the resulting disaster.

**Chemical explosions**: result in violent destruction caused by the explosion of combustible material, nearly always of chemical origin.

**Nuclear explosions or thermonuclear explosions**: accidental release of radiation occurring in civil nuclear facilities, exceeding the internationally established safety levels

**Mine explosions**: occur when natural gas or coal dust reacts with the air.

\* **Pollution**

Degradation of one or more elements or aspects in the environment by noxious industrial, chemical or biological wastes, from debris or man-made products and from mismanagement of natural and environmental resources

**Acid rain**: a washout of an excessive concentration of acidic compounds in the atmosphere, resulting from chemical pollutants such as sulfur and nitrogen compounds. When deposited these increase the acidity of the soil and water causing agricultural and ecological damage

**Chemical Pollution**: a sudden pollution of water or air near industrial areas, leading to internal body disorders which may be fatal, or to external disorders with permanent damage of the skin.

**Atmosphere pollution**: contamination of the atmosphere by large quantities of gases, solids and radiation produced by the burning of natural and artificial fuels, chemicals and other industrial processes and nuclear explosions.

**Chlorofluoro-carbon (CFC)**: a group of chemical compounds used in industry and in the household, of which the excessive and universal use is believed to be one of the causes of ozone depletion, with resulting environmental damage

**Oil Pollution:** pollution of oceans, lakes or rivers. This results from the discharge of hydrocarbons (often petroleum or crude oil) from tanks, tankers or pipelines during transportation or storage. Oil spills are accidental discharge often resulting from storms or collisions. Oil pumping is international discharge from flushing the holds of tankers. Oil Slick are generally small discharges on the waters surface. Black Tide are substantial deposits on tidelands from oil spills or dumping.

### **2.1.3. Fires**

Usually caused by man but may occasionally occur through natural causes; for example, forest fires can be caused by lightning in thunderstorms.

Note: when a fire is a result of a **natural** cause, it will be classified under the natural cause.

**Forest/grassland fire:** fires in frost or bush grasslands that cover extensive areas and usually do damage. They may start by natural causes such as volcanic eruptions or lighting, or they may be caused by arsonists or careless smokers, by those burning wood or by clearing a forest area.

## **2.2. LONG TERM**

### **2.2.1. Conflict**

#### **National (civil strife, civil war)**

Warlike encounters between armed groups from the same country which take place within the borders. This may pose large scale medical problems such as epidemics, lack of water, accumulation of rubbish, displaced persons, refugees, food shortage, hunger, etc.

#### **International**

Warlike encounters between two or more armies from different countries. These may cause large scale mass movements of refugees and displaced persons.

### **2.2.2. Displaced Population**

Persons who for different reasons or circumstances have been compelled to leave their homes. They may or may not reside in their country of origin, but are not legally regarded as **refugees**. They may be forced out by natural disasters, industrial disasters, international conflicts or strife. There are three sorts of mass movements : **exodus**, **expulsion**, and **returnees**. The displaced population are listed under the country which received the displaced persons. This type of disaster always is a consequence of another disaster type. The classification will be made by the original cause.

**Displaced persons:** refers specially to people who have been displaced but remain within the territory of their own country.

**Refugees:** according to international legislation, persons having a well-founded fear of persecution for reasons of race, religion, nationality, membership of a particular social group or political opinion mostly outside the country of nationality and unable to return or avail themselves of the protection of that country. Includes mass exodus of peoples for reasons of conflict and natural disasters moving outside their country of origin.

## **ANNEX 4.**

### **LIST OF FOURTEEN POINTS USED BY DHA FOR REPORTING CONTRIBUTIONS**

#### **REPORTING FORMAT**

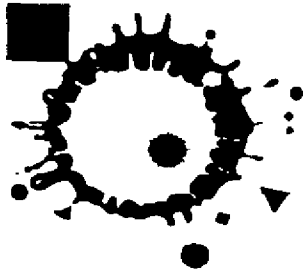
1. Donor
2. Recipient country
3. Date of decision to contribute
4. Description of each relief item
5. Quantity provided, including unit of measurement
6. Value of each relief item, including currency
7. Transport of relief item, if any:
  - A. Type - air/land/sea
  - B. Value of transport
8. Channel (for those contributions which are channelled through or via intermediaries)
9. Local implementing agency (in recipient country)
10. Area of destination of contribution (in recipient country)
11. Purpose of contribution (whenever possible)
12. Expected date and place of arrival of contribution in the recipient country
13. Budgetary source of contribution (ministry, etc)
14. Specification of technical assistance provided and/or assessment teams deployed and their respective skills

## **ANNEX 5.**

### **LIST OF MEETING DOCUMENTS**

1. J. K. Mitchell : "Where Might the International Decade for Natural Disaster Reduction Concentrate Its Activities? A comparative analysis of disaster data sets.
2. International Federation of Red Cross and Red Crescent Societies, Third Meeting of the Development Commission, 26 September 1991. Progress report prepared by G. Hagman.
3. T.S. Glickman, D. Golding, E. Silverman : "Recent Trends in Natural Disasters and Major Industrial Accidents" , Resources for the Future, Washington 1992.
4. Definitions of disasters developed by CRED in collaboration with DHA/UNDRO and based on "Glossary of Disaster Management Terms", IDNDR Workshop, Prague , September 1991.
5. Criteria and description of disaster impact variables used by EM-DAT (CRED).
6. D.G. Sapir & C. Misson : "Development of a Database on Disasters: Experience of the CRED EMDAT Project".
7. DHA-UNDRO : "Preliminary Study on the Identification of Disaster-prone Countries Based on Economic Impact" , Geneva January 1990.
8. Excerpts from "Thesaurus of CICR".
9. "International Emergency Readiness and Emergency Response - Information System" , Scoping Workshop, Review Copy, July 1992.

## ANNEX 6



### **Centre for Research on the Epidemiology of Disasters**

School of Public Health - E pid 30-34  
Clos Chapelle-aux-Champs, 30  
1200 Brussels  
BELGIUM  
Tel: (32) 2- 764 38 23  
Fax: (32) 2- 764 33 28

## **LIST OF SELECTED DATABASES ON DISASTERS**

**DRAFT**

This compilation includes data sets of direct potential interest for the development of an international disaster database. It includes only databases and not softwares and is not an exhaustive list. This list is from a database and may be selectively retrieved. Many of these are selected because they constitute the group of sources feeding into the CRED database, others are included as those that have potential interest in the future. Further queries on this may be addressed to:

C. Misson  
H. Deconinck

**Emergency Disaster Events Database - Em-DAT**

<b>Organization</b>	Centre for Research on the Epidemiology of Disasters
<b>Contact</b>	EPID 30-34 School of Public Health - UCL Clos Chapell-aux-Champs, 30 1200 Brussels Belgium Tel: (32) 2/764 38 23 Fax: (32) 2/764 33 28
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	A computerized disaster events database, providing country specific disaster information: type, date, dead, affected, homeless, injured, estimation amount of US\$ damage, sources of information. It contains over 8900 events. Time period: 1900 to present. Outputs of the software: frequency distribution tables and cross tabulations on number of events or on the sum of the quantitative variables. Disaster data can be entered at country level in a specific country version.
<b>Format</b>	Ascii files, hard-copy, demo version

**Emergency Education**

<b>Organization</b>	Pan Caribbean Disaster Preparedness and Prevention Project
<b>Contact</b>	PCDPPP PO Box 1399 America Road St John's Antigua Tel: (809) 462-4432/35 Fax: (809) 462-4431
<b>Geographic Scope</b>	Caribbean
<b>Description</b>	PCDPPP collects material of all formats, particularly public awareness and education material. Goal: disseminating disaster preparedness information in Caribbean countries and territories which are building their own collections of disaster information.
<b>Format</b>	Monographs, periodicals, pamphlets, videotapes, slides, 16mm films.

**Hydrological Data: Streamline**

<b>Organization</b>	Australian Water Research Advisory Council
<b>Contact</b>	Australian Water Research Advisory Council Department of Primary Industries and Energy GPO Box 858 Canberra ACT 2601 Australia Tel: (61) 62-72 3933
<b>Geographic Scope</b>	Australia
<b>Description</b>	A national computerized database covering all aspects of water and wastewater information produced by Australians or about Australia. Categories: water quantity, aquatic environments, water resource investigation, urban water utilities. It includes bibliographic, research and progress reports.
<b>Format</b>	On-line, hard-copy

**Earthquake Database**

<b>Organization</b>	Australian Seismological Centre
<b>Contact</b>	Information Sector Australian Seismological Centre Bureau of Mineral Resources GPO Box 378 Canberra ACT 2605 Australia Tel: (61) 62-499675 Fax: (61) 62-480913
<b>Geographic Scope</b>	Australia
<b>Description</b>	The centre maintains an earthquake data file containing epicentre data: time, latitude, longitude, depth, magnitude, number of stations, source. Time period: 1873-present. Range: 0-90 degrees South by 131-163 degrees East.
<b>Format</b>	Ascii files, floppy discs, tapes

**Wildfire and Natural Hazards Information**

<b>Organization</b>	Macquarie University
<b>Contact</b>	School of Earth Sciences Macquarie University AA 122377 Macuni New South Wales 2109 Australia
<b>Geographic Scope</b>	Australia, Solomon Islands and Papua New Guinea
<b>Description</b>	Database on the effects of natural hazards: fire, earthquake, tropical cyclone, drought, flooding. Time period: Australia 1788-present, Papua 1880-present
<b>Format</b>	Computer-based in Notebook II and dBase

**Disaster Management**

<b>Organization</b>	CSIRO, Division of Wildlife and Ecology
<b>Contact</b>	Division of Wildlife and Ecology CSIRO PO Box 84 Lyneam, ACT 2602 Australia Tel: (61) 62-421303
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Computer-based decision support system for rapid definition and profiling of impact zones associated with natural disasters and other catastrophic events. The support system accesses national data sets which can be used for pre- and post-disaster planning.
<b>Format</b>	Computer-package for IBM

**Disaster Information**

<b>Organization</b>	Emergency Canada Research Unit
<b>Contact</b>	Emergency Canada Research Unit Carleton University Ottawa K1S 5B6 Canada Tel: (613) 231-5532
<b>Geographic Scope</b>	Canada
<b>Description</b>	Computerized database including information on: agency involvement, type of incident, location.
<b>Format</b>	Computerized data

**Disaster Management**

<b>Organization</b>	Centre of Coordination for Prevention of Natural Disasters in Central America
<b>Contact</b>	Centre of Coordination for Prevention of Natural Disasters in Central America 7a Ave. 14-57 Zona 13 01013 Guatemala Tel: (502) 2-348317 Telex: (502) 2-348318
<b>Geographic Scope</b>	Central America
<b>Description</b>	The centre provides financial support for risk analysis on: earthquakes, volcanic eruptions, landslides, floods. It maintains a catalogue of Central American earthquakes from 1904-present.
<b>Format</b>	Hard-copy



**Geotechnical Information**

<b>Organization</b>	New Zealand Geological Survey
<b>Contact</b>	New Zealand Geological Survey, DSIR PO Box 30368 Mower Hutt New Zealand
<b>Geographic Scope</b>	New Zealand
<b>Description</b>	The Geological Survey maintains 125 years of geological data including 30 years of geodetic data for specialist earth information studies, volcanology, erosion, landslides, sea level change.
<b>Format</b>	Manual and computerized files, record field sheets

**Earthquake Database - EDB**

<b>Organization</b>	Swiss Seismological Service
<b>Contact</b>	Swiss Seismological Service ETH-Honggerberg CH 8093 Zurich Switzerland Tel: (41) 1-377 2602 Fax: (41) 1-371 1864
<b>Geographic Scope</b>	Switzerland
<b>Description</b>	EDB contains 5000 epicentres in Switzerland. Time period: 1300-present
<b>Format</b>	Computer-based off-line, selections on request

**Health**

<b>Organization</b>	European Centre for Disaster Medicine
<b>Contact</b>	European Centre for Disaster Medicine La Panetière 1261 Bogis Bossey Switzerland or State Hospital 47031 Republic of San Martino Tel: (39) (0) 549-994535/906244 Fax: (39) (0) 549-903706
<b>Geographic Scope</b>	Europe
<b>Description</b>	The centre coordinates medical disaster assistance for Europe. Information programme: collects information into computerized files, maintains a data bank for quick access to teaching materials and bibliographic information on disaster management.
<b>Format</b>	Hard-copy, computerized materials

**Earthquake Database**

**Organization** Earthquake Research Institute  
**Contact** Earthquake Research Institute  
Eskisehir Yolu Lo ncu Km Lodumlu evkii  
Ankara  
Turkey  
Tel: (90) 4-2873640  
Fax: (90) 4-213 7658  
**Geographic Scope** Turkey  
**Description** Computer catalogue of earthquakes for the period 1880-1986 and reports of earthquakes since 1940.  
**Format** Hard-copy and computer-copy

**Earthquake Database**

**Organization** International Seismological Centre  
**Contact** International Seismological Centre  
Pipers Lane  
Thatcham, Newbury, Berks RG13 4NS  
United Kingdom  
Tel: (44) 635-61022  
**Geographic Scope** Worldwide  
**Description** Final collection, analysis and publication of standard earthquake information from all over the world. Earthquake readings are received from some 1500 seismograph stations.  
**Format** Hard-copy, magnetic tape

**National Geoscience Information Service**

**Organization** British Geological Survey  
**Contact** British Geological Survey  
Nicker Hill, Keyworth  
Nottingham NG12 5GG  
United Kingdom  
Tel: (44) 60-77 6111  
Fax: (44) 60-77 6602  
**Geographic Scope** Britain and Commonwealth, recent: worldwide  
**Description** Comprehensive information service based on geological, geophysical, geochemical data. Time period: some dating back from 1850.  
**Format** Hard-copy, digital files via UK JANET network

**Earthquake Database**

**Organization** Institute of Geophysics  
**Contact** Institute of Geophysics  
Richard Wagner Strasse  
44 D 7000 Stuttgart 1  
Germany  
Tel: (49) 711- 121 3592  
Telex: (49) 07-23563 Unig-d  
**Geographic Scope** Germany  
**Description** Seismological data from 1905-present, macro-seismic data from 1800-present, accelerograph data since 1976.  
**Format** On-line via GRF, hard-copy

**Westwide Avalanche Network**

**Organization** Colorado Avalanche Information Centre  
**Contact** Colorado Avalanche Information Centre  
c/o Rocky Mountain Forest and Range Experiment Station  
Forest Service  
US Department of Agriculture  
240 West Prospect Street  
Fort Collins CO 80526, USA  
Tel: (1) 303-498 1847  
FTS: (1) 303-323 1847  
**Geographic Scope** Western USA and Alaska  
**Description** Consisting of 40 observation stations, maintaining data on: daily avalanche, snow cover, weather. Time period: the last 20 to 25 years.  
**Format** Computer cards, magnetic tape, listings

**Avalanche Information**

**Organization** Northwest Avalanche Centre  
**Contact** Northwest Avalanche Centre  
7600 Sandpoint Way NE  
Box C-15700  
Seattle, WA 98115, USA  
Tel: (1) 206-526 6164  
**Geographic Scope** Northwest USA: Washington and Northern Oregon  
**Description** Data: weather, snow, avalanche fatalities, snow stability, avalanche hazard forecast and occurrences including hourly temperature, wind precipitation, humidity.  
**Format** On-line

**Computational Seismology**

<b>Organization</b>	Centre for Computational Seismology
<b>Contact</b>	Division of Geophysics and Geomechanics Centre for Computational Seismology Lawrence Berkeley Labs 50 East 1 Cyclotron Road Berkeley, CA 94720, USA Tel: (1) 415-486 6709 Fax: (1) 415-486 5686
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Offers a wide variety of software and hardware to conduct seismic research. Analyzes seismic data, develops seismic exploration and monitoring techniques, conducts hydrofracture detection, propagation and monitoring research, generates seismic databases.
<b>Format</b>	On-line

**Earthquake Database**

<b>Organization</b>	National Geophysical Data Centre
<b>Contact</b>	NOAA/NESDIS National Geophysical Data Centre 325 Broadway Boulder, CO 80303-3328, USA
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Information on over 500.000 earthquakes and associated phenomena. Data: dates and times of occurrence, latitude and longitude, magnitudes, depths of focus, related data on effects. Time period: before BC-present, mostly since 1990.
<b>Format</b>	Magnetic tape, hard-copy, searches, plots, maps

**Earthquake Effect File**

<b>Organization</b>	National Geophysical Data Centre
<b>Contact</b>	NOAA/NESDIS National Geophysical Data Centre 325 Broadway Boulder, CO 80303-3328, USA
<b>Geographic Scope</b>	USA
<b>Description</b>	Data on earthquake effects measured on Modified Mercalli Intensity Scale for over 22.000 earthquakes in USA. Data: source, latitude, longitude, nearest town, distance between the 2 points. Time period: 1928-1982.
<b>Format</b>	Magnetic tape, plots, maps, lists, searches

**Landslide Register**

<b>Organization</b>	Bureau of Reclamation
<b>Contact</b>	US Bureau of Reclamation Denver Federal Centre, Code D-5210 PO Box 25007 Denver, CO 80225, USA Tel: (1) 303-236 8087 FTS: 776 8087
<b>Geographic Scope</b>	17 Western States
<b>Description</b>	Data on significant landslides located near Bureau of Reclamation dam and reservoir sites. Data: slide characteristics, activity, risk upon failure. B. of R. personnel are the primary sources of the data.
<b>Format</b>	Hard-copy, computer-copy

**Tsunami Digital Database**

<b>Organization</b>	National Geophysical Data Centre
<b>Contact</b>	National Geophysical Data Centre NOAA, Code E/GC 4 325 Broadway Boulder, CO 80303, USA Tel: (1) 303-497 6337 FTS: 320 6337
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Data on about 2000 tsunami events. Data: occurrence, earthquake latitude, longitude, magnitude, intensity, affected areas, wave heights, damage, deaths.
<b>Format</b>	Magnetic tape, floppy discs, maps, publications

**Tsunami Data**

<b>Organization</b>	National Geophysical Data Centre
<b>Contact</b>	National Geophysical Data Centre NOAA, Code E/GC 4 325 Broadway Boulder, CO 80303, USA Tel: (1) 303-497 6337 FTS: 320 6337
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Historic tsunami data of about 6.600 records. Data: wave heights, damage, travel times, arrival times, number of deaths, earthquake epicentres, magnitudes and depths. Time period: 49 BC-present.
<b>Format</b>	Hard-copy, magnetic tape, floppy discs, maps, ...

**Volcano Database - Scientific Event Alert Network SEAN**

<b>Organization</b>	Smithsonian Institution
<b>Contact</b>	Smithsonian Institution SEAN, NHB MRC 129 Washington, DC 20560, USA Tel: (1) 202-357 1511 Fax: (1) 202-357 2476
<b>Geographic Scope</b>	USA
<b>Description</b>	The Institute maintains descriptive reports on current volcanic activity, large earthquakes, meteorites. Time period: 1968-1975. Since 1975 it has maintained SEAN.
<b>Format</b>	Hard-copy bulletins, computer volcano data

**Drought Index: Palmer Drought Severity Index**

<b>Organization</b>	Climate Analysis Centre
<b>Contact</b>	Climate Analysis Centre Agricultural Weather Station NOAA/USDA Agricultural Weather Facility USDA South Building, Room 5844 Washington , DC 20250
<b>Geographic Scope</b>	USA
<b>Description</b>	Relating climate and weather to prolonged and abnormal soil moisture deficiencies affecting water sensitive economies. Useful in delineating disaster areas, indicating the availability of irrigation water supplies, reservoir levels, range conditions, amount of stock water, potential intensity for forest fires.
<b>Format</b>	Maps in 2 atlases for 1895-1983, computerized tapes

**Drought Information**

<b>Organization</b>	International Drought Information Centre
<b>Contact</b>	International Drought Information Centre Centre for Agricultural Meteorology and Climatology 236 L.W. Chase Hall University of Nebraska Lincoln, NE 68583-0728, USA Tel: (1) 402- 472 3679
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	The centre strives to improve communication about prediction, monitoring, impact assessment, adjustment and adaptation, planning and response to drought. Goal: collect, analyze, disseminate information; response, mitigation and planning activities; research results and the development and application of new technologies to manage drought; publications and conferences; train persons; stimulate and coordinate drought related activities in the US.
<b>Format</b>	Workshops, newsletters

**Hurricane Data**

<b>Organization</b>	National Hurricane Centre
<b>Contact</b>	National Hurricane Centre 1320 South Dixie Highway, Room 631 Coral Gables, FL 33146, USA Tel: (1) 305-666 4612
<b>Geographic Scope</b>	USA
<b>Description</b>	Records of hurricanes containing position and strength estimates at 6-hour intervals. Time period: 1871-present.
<b>Format</b>	Hard-copy, on-line, computer listings, floppy discs

**Tropical Cyclone Data**

<b>Organization</b>	National Climatic Data Centre
<b>Contact</b>	National Climatic Data Centre NOAA Federal Building Asheville, NC 28801, USA Tel: (1) 704-259 0344 FTS: 672-0344
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Position and stage for tropical cyclones. Data organized by ocean basin. Time period: late 1800s-present.
<b>Format</b>	Magnetic tape, hard-copy, plots, searches and analyses

**Severe Storm Data**

<b>Organization</b>	National Climatic Data Centre
<b>Contact</b>	National Climatic Data Centre NOAA Federal Building Asheville, NC 28801, USA Tel: (1) 704-259 0448 FTS: 672-0448
<b>Geographic Scope</b>	USA
<b>Description</b>	Data on storms: location, date, damages, injuries, death. Time period: 1959-present
<b>Format</b>	Hard-copy, computer-copy, slides, films, searches

**Tornado Data**

**Organization** National Climatic Data Centre  
**Contact** National Climatic Data Centre  
NOAA  
Federal Building  
Asheville, NC 28801, USA  
Tel: (1) 704-259 0448  
FTS: 672-0448  
**Geographic Scope** USA  
**Description** Tornado statistics on location, movement, Fujita index, damage, deaths, injuries.  
Time period: 1951-present.  
**Format** Magnetic tape, searches, plots, analyses

**Forestry Data: Insects and Diseases**

**Organization** Forest Service  
**Contact** Forest Insect and Diseases Management Division  
Forest Service  
US Department of Agriculture  
PO Box 2417  
Washington, DC 20013, USA  
Tel: (1) 703-235 1560  
FTS: 235 1560  
**Geographic Scope** USA  
**Description** Aerial and ground surveys are conducted annually to monitor the status of destructive insect and disease pests on Forest Service lands. Archival data are available at regional or area headquarters for the last 20 years.  
**Format** Hard-copy, on-line

**Wildfire Data**

**Organization** Boise Interagency Fire Centre  
**Contact** Boise Interagency Fire Centre  
3905 Vista Avenue  
Boise, ID 83705, USA  
Tel: (1) 208-389 2603  
FTS: 554 2603  
**Geographic Scope** USA  
**Description** Data from over 800 Forest Service weather stations estimating the severity of fire damage and forest management planning. Data: number of fires, acres burned, \$ damage, fire size class, major causes. Catalogued by forest, region, state.  
**Format** Hard-copy, computer-copy



**Health**

<b>Organization</b>	National Centre for Health Statistics
<b>Contact</b>	Mortality Statistics Branch National Centre for Health Statistics Room 1-44 Center Building 3700 East-West Highway Hyattsville, MD 20782, USA Tel: (1) 301-436 8884 FTS: 301-436-8884
<b>Geographic Scope</b>	USA
<b>Description</b>	Wide range of statistics on marriage, divorce, families, health and mortality, using the International Classification of Diseases. Causes of mortality include accidents resulting from: natural and environmental factors, excessive heat or cold, high and low air pressure, flood, hurricanes, cataclysm, and others. Individual mortality data: place of occurrence, residence, age, sex, race. Time period: 1933-present.
<b>Format</b>	Computer tapes, tabulations, reports

**Disaster Assistance**

<b>Organization</b>	Agricultural Stabilization and Conservation Service
<b>Contact</b>	Agricultural Stabilization and Conservation Service Kansas City Management office US Department of Agriculture PO Box 419205 Kansas City, MO 64141-0205, USA Tel: (1) 816-926 6502 FTS: 926 6502
<b>Geographic Scope</b>	USA
<b>Description</b>	Records of disaster payments for low yields, including the type of disaster and dollars spent.
<b>Format</b>	Hard-copy, computer-copy

**Disaster History File**

<b>Organization</b>	Agency for International Development
<b>Contact</b>	Office of US Foreign Disaster Assistance Agency for International Development US Department of State Washington, DC 20523, USA Tel: (1) 202-647 8924
<b>Geographic Scope</b>	Worldwide, excluding the USA
<b>Description</b>	Quantitative record of all foreign disasters to which the Agency for International Development/Office of US Foreign Disaster Assistance (USAID/OFDA) has responded and significant non-declared disasters. Data of 3,400 records of natural and human-made disasters include: dates, locations, casualties, damages to housing, transportation, communications, crops and magnitude of impact. Time period: 1964 + selected major disasters dating back to 1900-present. Retrieval by a variety of selection criteria.
<b>Format</b>	Searches, listings, publications

**Natural Disasters Database**

<b>Organization</b>	United Nations Centre for Regional Development
<b>Contact</b>	United Nations Centre for Regional Development Nakamura-ku Nagoya 450 Japan Tel: (481) 52-561 9377
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Computerized data on natural disasters: location, date, event, area, death toll. Time period: 1900-present
<b>Format</b>	Hard-copy

**Disaster Database**

<b>Organization</b>	Office of Civil Defense
<b>Contact</b>	Office of Civil Defense Department of National Defense Camp Emilio Aguinaldo Quezon City Philippines
<b>Geographic Scope</b>	Philippines
<b>Description</b>	Computerized database on natural disasters. Data: type of disaster, date, death, injured, affected, homeless, cost of damages, local/international name of typhoon, place. Time-period: 1961-present.
<b>Format</b>	Hard-copy

**Disater Database**

<b>Organization</b>	Prime Minister's Office
<b>Contact</b>	Acting Chief Secretary and Acting Secretary to Cabinet Prime Minister's Office PO Box 62 Nuku'Alofa Tonga Tel: 21 300 Fax: 23 888
<b>Geographic Scope</b>	Tonga and neighbouring Islands
<b>Description</b>	Listing of natural disasters, data: date, killed, injured, affected, homeless, US\$ damage, place, type of emergency, damages. Time period: 1900-present.
<b>Format</b>	Hard-copy

**Statistical Information**

<b>Organization</b>	Direction de la Protection Civile
<b>Contact</b>	Direction de la Protection Civile Ministère de l'Interieur Tunis Republique Tunisienne
<b>Geographic Scope</b>	Tunesia
<b>Description</b>	Data on floods, earthquakes, fires: year, number of interventions, killed/rescued/homeless, material damages. Time period: 1980-present.
<b>Format</b>	Hard-copy

**Disaster Data**

<b>Organization</b>	Organisation Pré-désastre et de Secours
<b>Contact</b>	Organisation Pré-désastre et de Secours 148 Ave Martin Luther King Port-au-Prince Haiti Tel: 5 3222/5 8874/5 8956/5 2164 Fax: 58 971
<b>Geographic Scope</b>	Haiti
<b>Description</b>	Data: type of disaster, place, date, houses affected, persons affected/wounded/death. Time period: 1987-present.
<b>Format</b>	Hard-copy

**Disaster Data**

<b>Organization</b>	Office of Disaster Preparedness & Emergency Relief Co-ordinator
<b>Contact</b>	Office of Disaster Preparedness & Emergency Relief Co-ordinator 12a Camp Rd. Kingston 4 Jamaica Tel: 92-85111 4
<b>Geographic Scope</b>	Jamaica
<b>Description</b>	Data on disaster events: date, type of disaster, damage costs, houses destroyed, homeless, injured, killed. Time period: 1907-present.
<b>Format</b>	Hard-copy

**History of Disaster**

<b>Organization</b>	The Government of Anguilla
<b>Contact</b>	National Disaster Co-ordinator The Secretariat The Valley Anguilla West Indies Tel: 2451 5 Fax: 809-497 2751
<b>Geographic Scope</b>	Anguilla
<b>Description</b>	Data on disasters: date, type of disaster, killed/ injured/affected, losses, damages. Time-period: 1747-present.
<b>Format</b>	Hard-copy

**Earthquake Data**

<b>Organization</b>	Government of Ecuador
<b>Contact</b>	Government of Ecuador Quito Ecuador
<b>Geographic Scope</b>	Ecuador
<b>Description</b>	Data on earthquakes with an intensity bigger than VI (K): date, principal effects. Time period: 1541-present.
<b>Format</b>	Hard-copy

**List of Civil Defence Emergencies**

<b>Organization</b>	Ministry of Civil Defence
<b>Contact</b>	Civil Defence Commissioner Ministry of Civil Defence Department of Internal Affairs PO Box 5010 Wellington New Zealand Tel: 04-738 699 Fax: 04-737 369
<b>Geographic Scope</b>	New Zealand
<b>Description</b>	Data: date of declaration, date of termination, area, type of declaration, emergency, notes (affected, killed, damage). Time period: 1963-present.
<b>Format</b>	Hard-copy

**Inventory of Belgian Catastrophes**

<b>Organization</b>	Association des Ambulancier de Belgique
<b>Contact</b>	Association des Ambulancier de Belgique Caserne Hélicoptère du S.R.I. Brussels Belgium
<b>Geographic Scope</b>	Belgium
<b>Description</b>	Data: date, place, type of disaster, description, victims (killed, injured, missing). Time period: (1100) 1889-present.
<b>Format</b>	Hard-copy

**Disaster Data**

<b>Organization</b>	Compagnie Suisse de Réassurances
<b>Contact</b>	Compagnie Suisse de Réassurances 50/60 Mythenquai Boîte Postale 8022 Zurich Suisse Tel: (41) 1-285 25 43
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Data on natural disasters: date, place, event, number of victims (killed, injured, homeless, affected), damage in US\$. Time period: annual data, in magazine Sigma (1991).
<b>Format</b>	Magazine

**Disaster Data**

<b>Organization</b>	Observatorio Sismologico del Suroccidente - OSSO
<b>Contact</b>	Observatorio Sismologico del Suroccidente - OSSO Universidad del Valle A.A. 25360 Cali Colombia Tel: 57-23-297222 Fax: 57-23- 313418
<b>Geographic Scope</b>	Colombia and others in Middle and South America
<b>Description</b>	Computerized data: type and place of disaster, description (killed, homeless, affected, media source. Time period: 1980-1989.
<b>Format</b>	Hard-copy

**Emergency Preparedness Canada (EPC) Disaster Database**

<b>Organization</b>	Emergency Preparedness Canada
<b>Contact</b>	Emergency Preparedness Canada Protection Civile Canada
<b>Geographic Scope</b>	Canada
<b>Description</b>	Database developed from CRED Disaster Events Database. Data: date, province, disaster type, number of death, injured, evacuated, magnitude, information source, damage in Can\$, comments. Time period: 1900-present.
<b>Format</b>	Hard-copy

**International Food Aid Information System - INTERFAIS**

<b>Organization</b>	World Food Programme
<b>Contact</b>	Data Management Group World Food Programme 426 Via Cristoforo Colombo 00145 Roma Italy Tel: (39) 657976624 Fax: (39) 657973045
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Computerized database providing information on worldwide food aid flows and related logistics, containing more than 40.000 records. Time period: 1986-present.
<b>Format</b>	Publications, reports, Faminet: on-line system

**Disaster History Records**

<b>Organization</b>	DHA-UNDRO
<b>Contact</b>	Department of Human Affairs Office of the United Nations Disaster Relief Co-ordinator Palais des Nations CH 1211 Geneve 10 Switzerland Tel: (41) (22) 7310-211 Fax: (41) (22) 733-5623
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Data entered for all disasters demanding DHA assistance: disaster code, starting date, disaster type, country/region, location, date end, affected, dead, missing, injured, homeless, damage in US\$, total contribution in US\$, description, Undro involvement. Time period: 1988-present.
<b>Format</b>	Hard-copy

**FACTS Database: Failure and Accidents Technical Information System**

<b>Organization</b>	TNO
<b>Contact</b>	Environmental and Energy Research TNO Institute of Environmental and Energy Technology Laan van Westenenk PO Box 501 7300 AH Apeldoorn The Netherlands Tel: (31) 55 49 34 93
<b>Geographic Scope</b>	Worldwide
<b>Description</b>	Technical information about accidents that occurred during the handling of hazardous chemicals, containing 16.000 accidents. Data: registration, source, local data, activity data, occupancy data, course of incident, comments, chemical data. Time period: last 60 years.
<b>Format</b>	Floppy discs, reports, software, bulletin