Developments and efforts on disaster-related statistics in Georgia

27 May, 2021
Disaster-Related Statistics in Georgia

POLICY

LAW OF GEORGIA ON STATE OF EMERGENCY (17 October 1997)

A. LAW of GEORGIA on PUBLIC SAFETY (29 May, 2014): (Article 9 - Keeping records of emergencies, fires and of their effects)

1. A unified state system for keeping records.
2. The Agency provides official statistics and State statistical reporting.
3. The Ministry of Internal Affairs establishes procedures in agreement with the Legal Entity, NSO and other agencies.
4. Any party shall perform the procedures established for keeping records

B. National Disaster Risk Reduction Strategy of Georgia: 3.4. Development/Implementation of Methodology/Approach for Post-Disaster Damages and Recovery Needs Assessment and Calculation of Economic Losses

1. To develop a methodology for identification, collection and analysis of data;
2. To delineate competences of different stakeholders;
3. To identify institution(s) responsible for coordination
4. To develop economic and social mechanisms for disaster management

C. Action Plan 2017-2020 of the National Disaster Risk Reduction Strategy of Georgia:

1. Includes 18 Priority areas;
2. Responsible State Bodies-Inter ministerial
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**COORDINATION**

- The State Security and Crisis Management Council, Prime Minister’s office
- The Natural Disaster Prevention and Rapid Response Unit (established in 2014 under MRDI) integrates prevention, warning, response, and recovery in infrastructure planning and development

**State Bodies involved in the measurement of the occurrence of hazards:**

| Natural hazards | Ministry of Internal Affairs of Georgia  
Ministry of Environment Protection and Agriculture of Georgia |
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<tbody>
<tr>
<td>Biological hazards</td>
<td>Ministry of Internally Displaced Persons from The Occupied Territories, Labour, Health and Social Affairs of Georgia</td>
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<tr>
<td>Man-made hazards (anthropogenic hazards)</td>
<td>Ministry of Internal Affairs of Georgia</td>
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DATA COLLECTION

A. The Georgia Emergency Management and Homeland Security Agency
1. Disaster occurrences and impacts
2. Disaster management and emergency response capacities

A. The National Environmental Agency (NEA)
1. Assesses and documents geo-ecological conditions, performs forecasts and warning, risk zoning and mapping.
2. The Hydrometeorology Department: collects and provides hydro meteorological disaster hazards-related data.
3. The Geology Department maintains topographic maps; resistibility, buildings and structures; and visual engineering-geological on lands.

B. The National Statistics Office of Georgia (Geostat),
1. Maintains spatial data with historical and projected disaster data with some gaps that can be improved
2. Does not maintain specific disaster-related data.

C. Academic communities
1. The Mikheil Nodia Institute of Geophysics, Tbilisi State University: a seismic zoning map
2. The Institute of Earth Sciences and Seismic Monitoring Center at the Ilia State University: earthquakes and seismic activity
DATA SHARING

Ongoing Efforts:
• The end of the USSR system reduced the data collection capacity.
• In compliance to the European Infrastructure of Spatial Information in Europe (INSPIRE);
  ○ Improving the geo-information sector, legal framework, and administrative considerations,
  ○ Geospatial Data Infrastructure for disaster risk management.

Establishing inter-sectoral coordination, developing agreed terminologies, hazard and risk maps, and addressing gaps in risk assessment methodology.

Data sharing
• An Atlas at the Geoportal of Natural Hazards and Risks:
  ○ Containing maps of natural hazards, and physical, social, ecological, economic vulnerability
  ○ It needs periodical updating and further dissemination to sectoral and local authorities.
  ○ Not all of agencies datasets has been digitised, i.e. seismology, geology, hydrometeorology
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SAMPLE OF DATA

The data on the victims and perpetrators of the domestic violence by regions and ages

The data on the victims and perpetrators of the domestic violence by regions and sex

Data of registered fires

Number of registered fires, unit

2020
15000
10000
5000
0

Total number of fires

14 May 2021
Geostat meeting with mayors and representatives of the municipality

13 May 2021
EXTERNAL MERCHANDISE TRADE OF GEORGIA IN JANUARY-APRIL 2021 (EXPRESS RELEASE)

2021 Year May

Downloaded Data
## Disaster-Related Statistics in Georgia

### Data of registered fires (unit)

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<tr>
<td>Total number of fires</td>
<td>5304</td>
<td>9060</td>
<td>10951</td>
<td>15222</td>
<td>10769</td>
<td>14800</td>
<td>13511</td>
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<tr>
<td>Persons killed</td>
<td>68</td>
<td>40</td>
<td>49</td>
<td>79</td>
<td>57</td>
<td>46</td>
<td>65</td>
</tr>
<tr>
<td>Persons injured</td>
<td>69</td>
<td>60</td>
<td>249</td>
<td>244</td>
<td>247</td>
<td>274</td>
<td>203</td>
</tr>
<tr>
<td>Buildings and structures destroyed</td>
<td>192</td>
<td>397</td>
<td>468</td>
<td>543</td>
<td>453</td>
<td>517</td>
<td>487</td>
</tr>
<tr>
<td>Domestic animals killed</td>
<td>51</td>
<td>94</td>
<td>48</td>
<td>79</td>
<td>28</td>
<td>54</td>
<td>53</td>
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* Data from 2010 includes the number of fires and arsons in accordance with Decree N1574 of the Minister of Internal Affairs dated December 25, 2009.

Source: Ministry of Internal Affairs of Georgia.
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COLLABORATIONS

The government established EU standards compatible national spatial data infrastructure

The EU-Georgia Association Agreement: the commitment to improving the utilization of disaster-related data including in the assessment and management of flood risks.
- the adoption of national legislation
- the designation of competent authorities;
- data collection for
  - preliminary flood assessments and preparation of flood risks maps;
  - the development and updating of flood risk management plans.

The Caucasus Environmental NGO Network (CENN) supported by Netherlands: Has a project that includes spatial approaches and technologies, a new system for data management, and Atlas of natural hazards and disasters.
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CHALLENGES

• Lack of administrative sources
• Data is not collected, systematized, customized and regularly updated in one central repository.
• Lack of experience of producing Disaster-Related Statistics in administrative sources as well as at Geostat
• Lack of Knowledge of Disaster-Related Statistics
THANK YOU FOR YOUR ATTENTION!

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