



Using GIS (Geographic Information Systems) has become common practice for local governments of all sizes. GIS is a technology suitable for disaster planning, response, and recovery. Local and regional disaster planners and their partners should investigate the spatial datasets created and distributed by the Department of Homeland Security (DHS).

**Homeland Security Infrastructure Program (HSIP) Gold 2013**

HSIP Gold is a unified homeland infrastructure geospatial data inventory assembled by the National Geospatial-Intelligence Agency (NGA) in partnership with the Department of Homeland Security (DHA) for official use by the Homeland Security and Homeland Defense (HLS/HD) and National Preparedness – Prevention, Protection, Mitigation, Response and Recovery (NP-PPMR&R) communities. It is a compilation of over 450 geospatial datasets, characterizing domestic infrastructure and base map features, which have been assembled from a variety of Federal agencies and commercial sources<sup>1</sup>.

HSIP Gold 2013 includes nearly 600 GIS layers that are useful for disaster planning, response, and recovery. The geodatabases (i.e. layer categories) and examples include:

| <b>Category or Layer</b>  | <b>Example Data</b>                 |
|---|-------------------------------------|
| ▪ Agriculture.....  | State Fairgrounds, Crop Farms       |
| ▪ Borders .....   | Canada, Mexico                      |
| ▪ Boundaries .....  | Urbanized Areas, Federal Lands      |
| ▪ Chemicals .....   | HazMat Routes                       |
| ▪ Commercial .....  | Grocery Stores                      |
| ▪ Communications .....  | Cell Towers                         |
| ▪ Education .....   | Public Schools                      |
| ▪ Emergency Services.....   | Communications Centers              |
| ▪ Energy .....  | Electric Generation Plants          |
| ▪ Finance .....   | Banks                               |
| ▪ Food Industry .....   | Ice Manufacturing                   |
| ▪ Government .....  | State Gov't Buildings               |
| ▪ Inventory Asset List (IAL).....   | Dams, Bridges                       |
| ▪ Law Enforcement .....   | Police/Sherriff Stations            |
| ▪ Mail/Shipping .....   | USPS Processing Facilities          |
| ▪ Manufacturing.....  | Wood Products                       |
| ▪ Mining .....  | Sand & Gravel                       |
| ▪ National Food Hazard.....   | Flood Hazard Areas by Risk          |
| ▪ National Levee.....   | Crossing Points                     |
| ▪ National Symbols.....   | Historic Sites                      |
| ▪ Natural Hazards.....  | Landslides, Fault Lines             |
| ▪ Population – 2012 LandScan: Day & night time populations (2010 Census)    |                                     |
| ♦ Alaska, Hawaii, Puerto Rico separate                                      |                                     |
| ♦ Continental US  |                                     |
| ▪ Public Health .....   | Hospitals                           |
| ▪ Public Venues .....   | Campgrounds, Churches               |
| ▪ Transportation – Air .....  | Airports                            |
| ▪ Transportation – Ground.....  | Railroads                           |
| ▪ Transportation – NAVTEQ: Includes Points of Interest (POI) for navigation |                                     |
| ♦ Interstates   |                                     |
| ♦ Highways  |                                     |
| ♦ Major roads   |                                     |
| ♦ Streets   |                                     |
| ♦ Exits   |                                     |
| ▪ Transportation – Water.....   | Lake Area, Ferries                  |
| ▪ Water Supply.....   | NHD <sup>2</sup> , Inland Waterways |

<sup>1</sup> From DHS Release Notes.

<sup>2</sup> National Hydrography Database from USGS.



### **LandScan Population**

LandScan population is included in HSIP Gold 2013. Using an innovative approach with geographic information systems and remote sensing, Oak Ridge National Laboratory's (ORNL) LandScan™ is the community standard for population distribution. Grid resolution for continental US data is approximately 100 meters. The LandScan algorithm uses spatial data and imagery analysis technologies and a multi-variable dasymetric modeling approach to disaggregate census counts within an administrative boundary. Both day and nighttime population layers are available.

### **HSIP Freedom**

This is a Department of Homeland Security (DHS) product that is a license free subset of HSIP Gold. These datasets assist with planning, situational awareness, threat and impact analysis (natural or man-made), modeling emergencies, protection of borders, and decision making during response and recovery operations

### **Obtaining HSIP Gold**

Authorized mission areas for the purpose of approving requests for the HSIP Gold data related to urban forestry and natural resources include:

- Infrastructure Mapping, Assessments, Analysis, and Modeling
- National Response Framework Emergency Support Functions (NDRF)
- Crisis, Consequence, and Disaster Management
- Man-Made and Natural Hazard Modeling and Effects Analysis
- Emergency Planning, Response and Recovery
- Training and Exercise Support related to the above mission areas

To request HSIP Gold, log on to the HIFLD web site ([www.hifldwg.org](http://www.hifldwg.org); start by creating an account at this website), go to the HSIP Gold page and complete the HSIP Gold request form.

### **Obtaining HSIP Freedom**

HSIP Freedom is available free to federal, state, local, tribal, and private sector mission partners and may be downloaded through the Homeland Security Information Network (HSIN) Geospatial Information System Community of Interest (COI), which can be accessed at <https://government.hsin.gov>. To gain access to HSIN, email [HSIN.helpdesk@dhs.gov](mailto:HSIN.helpdesk@dhs.gov) with your:

- Name
- Official Email Address
- Organization
- Phone Number
- Supervisor's name
- Community of Interest (i.e., Geospatial Information Systems, Emergency Management)