

# LandScan™ Global Population Database

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The World's Finest Population Distribution Data

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## New for 2013

- ▶ LandScan Global Archive
- ▶ Recently Collected Census Data

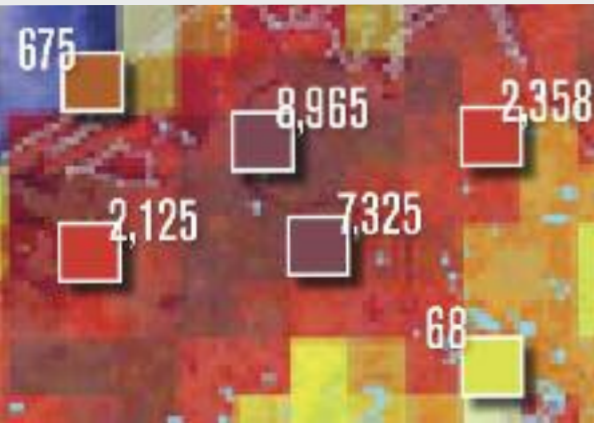


Uncommon Information  
Extraordinary Places

# LandScan™ Global Population Database



East View offers the latest edition of the LandScan™ Global Population Database developed by the Department of Energy's Oak Ridge National Laboratory (ORNL). Using an innovative approach with complex algorithms, GIS and Remote Sensing, LandScan is the industry standard for global population distribution.



## Critical Features

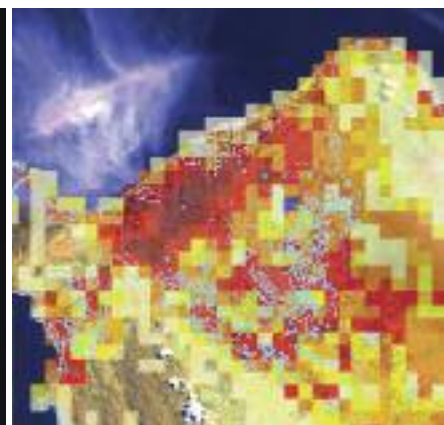
LandScan is the world's most accurate and reliable, geographically based, distribution model and finest resolution global population database.

- High resolution population distribution data (30 arc seconds or ~1km at equator) in a GIS raster (ESRI Grid) format
- Distribution depicts ambient (24 hr. average) population distribution
- Sub-national census counts provided by the International Program Center, Bureau of Census
- Upgraded and updated annually to reflect changes in global political boundaries



## Utility of LandScan

- Allows quick and simple assessment, estimation, and visualization of population at risk
- Demographic (age, gender) characteristics are integrated with population data to allow easy incorporation into risk and impact assessment models
- Critical component for Sustainable Development, Risk Assessment, Strategic Planning, Humanitarian Aid, Disaster Response and Disease Modeling
- Analysis enhancement for insurance, retail and other business applications



## LandScan Global Archive *New in 2013!*

- Compilation of annual LandScan Global population data sets from 2000 through 2010
- Access all LandScan Global databases from the same web portal
- Analyze population trends and demographic changes
- Available as complete set (2000-2010) or single years
- Data sets added yearly as they become archived



*Archive 2000 – Kinshasa, DR Congo*



*LandScan Global  
Archive Portal Page*



*Archive 2007 – Kinshasa, DR Congo*

## Disease Modeling

- Geocoding and spatial modeling of epidemics
- Infectious disease dynamics
- Public health policies
- Disease control programs

## Insurance Applications

- Risk analysis
- Life insurance forecasting
- Data warehousing
- Market predictions

2010	CTRYNUM	LINK	PTOT_0_4
00316	147	3925	0.07126058
00496	147	3926	0.07124687
00264	147	3927	0.07126121
002827	147	3928	0.07125105
001139	148	3929	0.17233353
009443	149	3037	0.09502287
009736	149	3038	0.09502372
009223	149	3036	0.09502343
006865	149	3040	0.09502362

## Telecommunications Network Planning

- Population count assessment
- Communication placement
- Urban land use clutter data enhancement
- Infrastructure improvements

## Spatial Data Analysis

- Raster (land cover, elevation, slope)
- Lines and Polygons (roads, rails, waterways, urban areas)
- Polygons (urban/rural areas, administrative boundaries)
- Points (small towns and villages, building data)

New and Improved access to LandScan!

LandScan is available in three convenient



**FTP/DVD** – An archival copy of the data delivered electronically via FTP or mailed on a DVD.





## Sustainable Development & Environmental Protection

- ▶ Assess human impact on the environment
- ▶ Locate per capita consumption hot-spots
- ▶ Habitat loss mitigation
- ▶ Critical infrastructure analysis

## Market Growth

- ▶ Retail expansion
- ▶ Population trends
- ▶ Market research
- ▶ Global comparative analysis
- ▶ Business development

## Humanitarian Aid & Relief Support

- ▶ Expedite assistance to catastrophic areas
- ▶ Monitor vulnerable populations in areas of conflict
- ▶ Rapid location of victims
- ▶ Plan and aid recovery efforts before natural and human disasters

access methods offering 24/7 access and unlimited simultaneous users!

**WMS/WCS** - Easy access for GIS users to connect to the data hosted via a Web Mapping Service and Web Coverage Service with any GIS software.



**WebApp** - Easy access for non-GIS users to view, analyze and extract the data via an easy to use Web Application accessible by anyone with a web browser.





## Annual Improvements

- Higher resolution input data
- Census and political boundary updates
- High-resolution imagery
- Processing techniques
- Algorithm refinements



Previous edition



Recent edition

## Current Users of LandScan

- LandScan population data is the accepted standard for estimating population at risk by the DoD and DoS
- LandScan is being used at the Health and Human Services Command and Control Center
- Other agencies including DOE, USGS, NASA, EPA, CDC, and NIH are current users of the data for their research and development and routine exercises
- International NGOs including the UN and WHO use LandScan data for relief missions and planning
- Academic institutions around the world use LandScan for a wide variety of research
- Multinational corporations eyeing expansion and other infrastructure investments

## Complete or Custom Datasets

The LandScan™ dataset is available for purchase by country, region or globally. Also included are a robust set of metadata, documentation, and user's guides to enable you to get the most information possible out of this data.



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