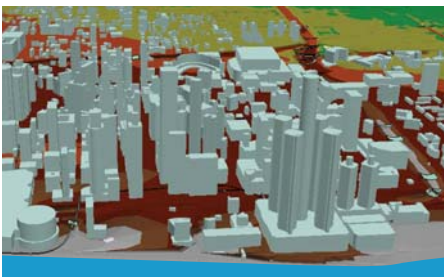


# Sanborn 3DCities™

OFF-THE-SHELF 3D METRO AREAS

Sanborn 3DCities™ Products are an essential ingredient to virtual city implementations. Combining a strong visual appearance with a standards-compliant relational objects database, 3DCities offers building and geospatial feature accuracy. The Sanborn product consists of off-the-shelf metro areas consisting of ortho imagery, buildings, elevation models and geospatial datasets covering the largest central business districts for over 60 of the major cities in the Americas and Europe. Committed to the improvement of city visualization and analysis, additional cities will become available from around the globe.



Top: 3DCities sample showing 3D buildings classified by occupancy attributes over draped ortho image.

Bottom: Sample showing the same area with 3D buildings over a bare earth DEM.

**Sanborn 3DCities can provide valuable geospatial and visualization data for users and organization involved with:**

- State and major urban Fusion Centers
- Local, State and Federal Operations Ctrs.
- Homeland Security and National Defense
- Local law Enforcement
- Architectural / Engineering / Construction
- Real-Estate and Land Development
- Navigation Applications
- Urban and Transportation Planning
- Security Planning and Training
- Public and private utility providers
- Gaming and internet companies

3DCities Products provide a variety of information that can be used in production environments for GIS or CAD software. In some cases the product has both current and archived historical components. The product contains imagery which has been orthorectified for use in applications of both visualization and as an accurate dataset for spatial analysis.

3D Cities	Area (mi <sup>2</sup> )	Area (km <sup>2</sup> )	# Buildings	# Addresses	Attributes	Year Available	3D Cities	Area (mi <sup>2</sup> )	Area (km <sup>2</sup> )	# Buildings	# Addresses	Attributes	Year Available
Arlington, VA	2.3	6.0	3594	5648	Y	2002	Nashville, TN	5.0	13.0	1066	N/A	N	2008
Atlanta, GA	3.4	8.8	2090	4696	Y	2002	New Orleans, LA	3.0	7.9	4412	4709	Y	2002
Austin, TX	5.0	13.0	4482	N/A	N	2008	Newark, NJ	3.6	9.3	7045	11052	Y	2002
Baltimore, MD	2.4	6.3	2562	6849	Y	2002	Norfolk, VA	5.0	13.0	775	N/A	N	2008
Boston, MA	2.9	7.5	3468	11764	Y	2002, 2008	Orlando, FL	5.0	13.0	5301	N/A	N	2008
Bridgeport, CT	5.0	13.0	1922	N/A	N	2008	Pentagon City, VA	1.7	4.3	1230	1570	Y	2002
Brooklyn, NY	2.2	5.8	4424	11679	Y	2002, 2008	Philadelphia, PA	5.5	14.1	15935	21877	Y	2002, 2008
Buffalo, NY	3.5	9.0	5482	5994	Y	2004	Phoenix, AZ	3.3	8.7	3883	4081	Y	2004
Charlotte, NC	5.0	13.0	1709	N/A	N	2008	Pittsburgh, PA	3.7	9.5	3252	3907	Y	2002
Chicago, IL	15.2	39.3	18409	31799	Y	2002, 2008	Portland, OR	1.3	3.4	991	4518	Y	2002
Cincinnati, OH	3.8	9.7	1882	2766	Y	2008	Providence, RI	5.0	13.0	7349	N/A	N	2008
Cleveland, OH	3.8	10.0	1334	1478	Y	2004, 2008	Richmond, VA	5.0	13.0	7770	N/A	N	2008
Columbus, OH	5.0	13.0	9603	N/A	N	2008	Sacramento, CA	3.1	8.0	3047	3582	Y	2004
Dallas, TX	3.8	9.9	2108	4871	Y	2002	San Antonio, TX	5.0	13.0	6992	6992	N	2008
Denver, CO	2.2	5.6	1774	4170	Y	2002, 2004	San Diego, CA	2.1	5.3	1308	3997	Y	2004
Detroit, MI	2.9	7.4	1404	4345	Y	2004, 2008	San Francisco, CA	5.8	15.0	8604	31433	Y	2002, 2008
Ft. Lauderdale, FL	3.5	9.1	5249	7467	Y	2002	San Jose, CA	5.0	13.0	6141	N/A	N	2008
Hartford, CT	5.0	13.0	2136	N/A	N	2008	Seattle, WA	3.5	9.1	2348	7393	Y	2002, 2008
Honolulu, HI	3.8	9.8	3538	3718	Y	2004	St. Louis, MO	4.9	12.7	2164	6334	Y	2002
Houston, TX	3.3	8.4	1648	3291	Y	2002	St. Paul, MN	1.1	2.9	491	1837	Y	2002
Indianapolis, IN	5.0	13.0	3325	N/A	N	2008	St. Petersburg, FL	2.5	6.5	1717	3418	Y	2002
Jersey City, NJ	3.5	8.9	5193	10041	Y	2002	Tampa, FL	0.8	2.1	256	789	Y	2002
Kansas City, MO	3.6	9.4	1544	1946	Y	2004	Washington, DC	7.5	19.3	6487	17516	Y	2002, 2008
Las Vegas, NV	6.4	16.6	2730	4102	Y	2002, 2008	Paris, FRN	5.0	13.0	12852	N/A	N	2004
Long Beach, CA	3.1	8.1	3007	4056	Y	2004, 2008	Berlin, GER	5.0	13.0	3821	N/A	N	2004
Los Angeles, CA	10.4	27.1	27278	42321	Y	2002, 2008	Buenos Aires, ARG	7.0	18.2	32950	N/A	N	2008
Louisville, KY	5.0	13.0	4763	N/A	N	2008	Mexico City, MEX	11.3	29.4	47278	N/A	N	2008
Manhattan, NY	10.1	26.1	17382	43691	Y	2002, 2008	Rio de Janeiro, BRZ	9.4	24.4	31882	N/A	N	2008
Memphis, TN	3.7	9.5	2519	2726	Y	2004	San Paulo, BRZ	9.4	24.3	39137	N/A	N	2008
Milwaukee, WI	5.0	13.0	5993	N/A	N	2008	Santiago, CHI	9.8	25.5	54419	N/A	N	2008
Miami, FL	3.8	10.0	2755	5083	Y	2002	Caracas, VEN	9.7	25.0	57861	N/A	N	2008
Minneapolis, MN	2.0	5.2	864	3727	Y	2002							

**Imagery**

- Imagery is RGB, positional accuracy no less than +/- 2' RMS
- Available for GIS and CAD software formats
- Digital Elevation Model provided

**3D Buildings**

- Buildings--positional accuracies of building models +/- 30cm
- Buildings are developed illustrating external architectural structure
- Full topology--completely built and tested features dataset without gaps, dangles, overlaps, etc.

- Addresses (when available). In many cases all relevant address within each single structure are provided
- Optimized geometry for maximum efficiency and data storage capacity

**Additional Attributes (when available)**

- Transportation features
- Surface elevation models and grids
- Other planimetric feature layers (streets, parks, etc)
- Building Photos
- Alternate address locations

**Additional Available Customized Services**

- Buildings may be textured using a variety of techniques to create generalized to highly realistic exterior facades
- Enhanced modeling provides buildings with generalized architectural structure detail
  - 5 progressively realistic building types. Available as LOD0 though LOD5
  - Buildings are compliant per OGC CityGML standards.
- Full urban models complete with terrain, structures, imagery, and textured building models are available

**Conditions and Deliverables**

- Pricing catalog is subject to change
- Product is warranted for 90 days as defined in the End User License Agreement
- Several formats deliverable for use in GIS and CAD software
- Product deliverable via FTP or hard media
- Most 3DCities orders can be shipped within 48 hours from date of purchase (depending on the size of the order).
- Tax, shipping and handling fees apply.

**How to order**

To order Sanborn 3DCities products, or for information about cities not listed, cities to be updated, or for specific details and pricing, contact Sanborn customer service at 1.866.SANBORN or email [information@sanborn.com](mailto:information@sanborn.com).

**About Sanborn**

With a rich tradition of mapping dating back to 1866, Sanborn offers end-to-end geospatial solutions backed by the latest in technology and superior customer support. The company's combined product and service offerings include consulting and off-the-shelf products, analog, digital, and LiDAR data acquisition, photogrammetric mapping, remote sensing solutions, and data conversion. Sanborn offers product solutions for government and commercial customers. A nationally recognized company, Sanborn has multiple offices in the United States. [www.sanborn.com](http://www.sanborn.com)