

# EarthWorks: Federated Geospatial Searching

Julie Sweetkind-Singer

Stanford University

March 2015 NGAC Meeting

## Find maps and data

Get started here

Search Q

Browse by category



### Institution

[Harvard](#), [Tufts](#), [Columbia](#), [Minnesota](#),  
[MIT](#), [Stanford](#), [MassGIS](#), [Berkeley](#),  
[more »](#)



### Placename

[Europe](#), [Massachusetts](#), [China](#), [World](#),  
[Mexico](#), [Russian River Watershed](#)  
[\(Calif.\)](#), [Sonoma County \(Calif.\)](#), [more »](#)



### Data type

[Polygon](#), [Line](#), [Point](#), [Raster](#), [Mixed](#),  
[more »](#)



### Subject


[Boundaries](#), [Inland Waters](#),  
[Administrative and political divisions](#),  
[Rivers](#), [Society](#), [Location](#), [Hydrology](#),  
[more »](#)

Browse by location



earthworks.stanford.edu

Get started here

Search 

Browse by category



Institution

[Harvard](#), [Tufts](#), [Columbia](#), [Minnesota](#), [MIT](#), [Stanford](#), [MassGIS](#), [Berkeley](#), [more »](#)



Data type

[Polygon](#), [Line](#), [Point](#), [Raster](#), [Mixed](#), [more »](#)



Placename

[Europe](#), [Massachusetts](#), [China](#), [World](#), [Mexico](#), [Russian River Watershed \(Calif.\)](#), [Sonoma County \(Calif.\)](#), [more »](#)



Subject

[Boundaries](#), [Inland Waters](#), [Administrative and political divisions](#), [Rivers](#), [Society](#), [Location](#), [Hydrology](#), [more »](#)

Browse by location



Limit your search

- Institution >
- Author >
- Publisher >
- Subject >
- Place >
- Year >
- Access >
- Data type >
- Format >



You searched for:  [Start Over](#)

« Previous | 1 - 10 of 1,998 | Next »








Sort by relevance ▾ 10 per page ▾

- ▶ 1. [Census Block Groups, 1995 - District of Columbia](#) 📏 🏠 🔒
- ▶ 2. [Census Block Groups District of Columbia 2010](#) 📏 🏠 🔒
- ▶ 3. [Census Blocks, 1990 - District of Columbia](#) 📏 🏠 🔒
- ▶ 4. [Census Blocks District Columbia 2010](#) 📏 🏠 🔒
- ▶ 5. [Census Class A Roads, 1995 - District of Columbia](#) 📏 🏠 🔒
- ▶ 6. [Census Counties, 1990 - District of Columbia](#) 📏 🏠 🔒
- ▶ 7. [Census County Divisions and Minor Civil Divisions,...](#) 📏 🏠 🔒
- ▶ 8. [Census Landmark Points, 1995 - District of Columbia](#) 📍 🏠 🔒
- ▶ 9. [Census Landmark Polygon Features, 1995 - District...](#) 📏 🏠 🔒
- ▶ 10. [Census Landmarks, 1995 - District of Columbia](#) 📏 🏠 🔒








Access		
	<a href="#">Public</a>	1,138
	<a href="#">Restricted</a>	860

Institution		
	<a href="#">Harvard</a>	957
	<a href="#">Columbia</a>	437
	<a href="#">MIT</a>	371
	<a href="#">Tufts</a>	175
	<a href="#">Stanford</a>	47
	<a href="#">MassGIS</a>	9
	<a href="#">Berkeley</a>	2

Data type		
	<a href="#">Polygon</a>	902
	<a href="#">Point</a>	543
	<a href="#">Line</a>	355
	<a href="#">Raster</a>	194
	<a href="#">Mixed</a>	4

- Numerous facets to narrow results
- Federated metadata from many institutions
- Public and restricted data shown

# Census Block Groups District of Columbia 2010

**Description** This polygon dataset represents the 2010 TIGER/Line census block groups for the District of Columbia. Block Groups (BGs) are defined before tabulation block delineation and numbering, but are clusters of blocks within the same census tract that have the same first digit of their 4-digit census block number from the same decennial census. The TIGER/Line Files are shapefiles and related database files (.dbf) that are an extract of selected geographic and cartographic information from the U.S. Census Bureau's Master Address File / Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Database (MTDB).

**Publisher** United States. Bureau of the Census. Geography Division

**Year** 2010

**Held by** [Tufts](#)

**More details at** <http://opengeometadata.stanford.edu/metadata/org.opengeoportal/sde:GISPORTAL.GISOWNER01.DCCENSUS...>

Tools

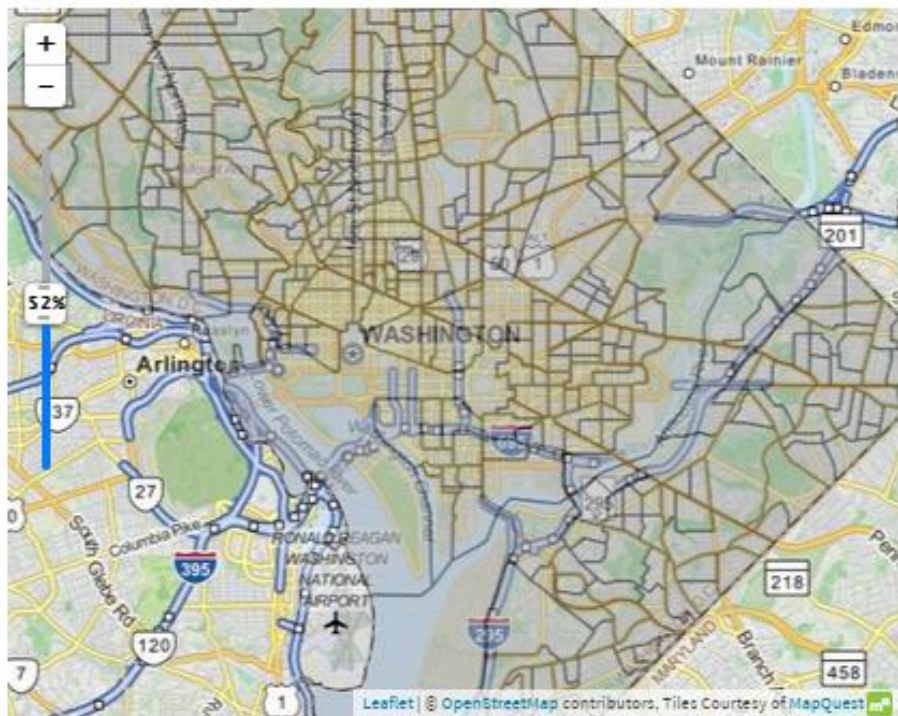
- [Bookmark](#)
- [Email](#)
- [Web services](#)

[Download Shapefile](#) ▾



Attribute	Value
<i>Click on map to inspect values</i>	

- Rich metadata
- Preview of dataset
- Freely available to all (not just Tufts)



Attribute	Value
fid	GISPORTAL.GISOWNER01.D
STATEFP10	11
COUNTYFP10	001
TRACTCE10	011100
BLKGRPCE10	3
GEOID10	110010111003
NAMELSAD10	Block Group 3
MTFCC10	G5030
FUNCSAT10	S
ALAND10	3553888.0
AWATER10	346566.0
INTPTLAT10	+38.9112627
INTPTLON10	-076.9659734

Tools

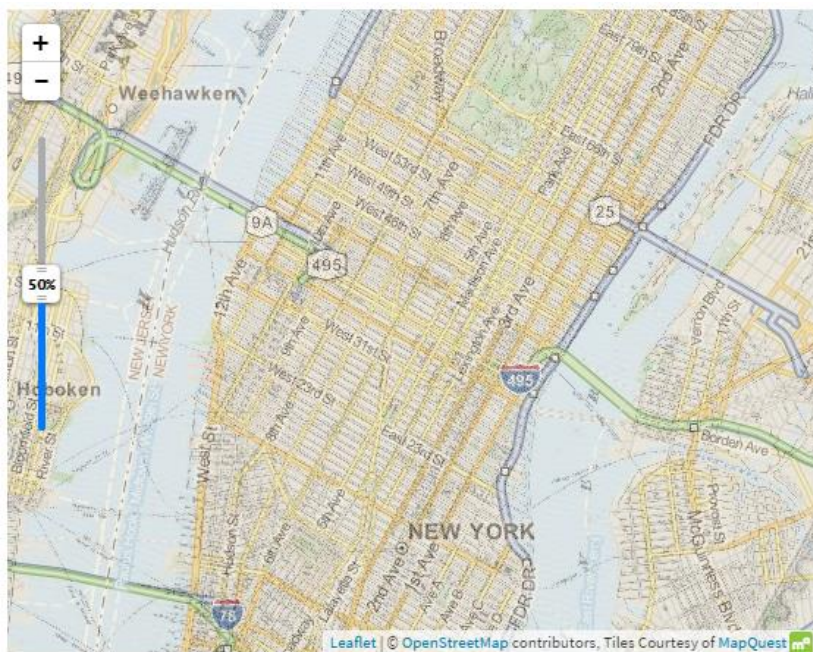
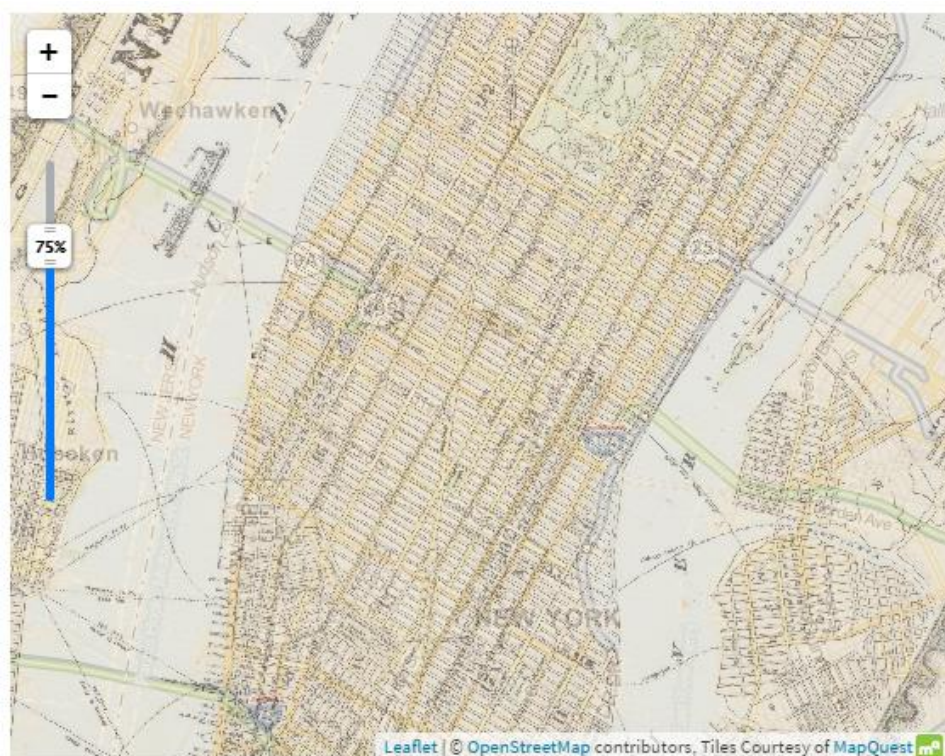
- Bookmark
- Email
- Web services

Download Shapefile ▾

Generated









- [Download Shapefile](#)
- [Download KMZ](#)
- [Download GeoJSON](#)

- Change opacity
- Review metadata
- Download different file formats



- Scanned, georeferenced maps
- Opacity slider to detect change
- Ability to download as GeoTIFF



Institution <span style="float: right;">×</span>		
	<a href="#">Harvard</a>	9,895
	<a href="#">Tufts</a>	2,802
	<a href="#">Columbia</a>	2,795
	<a href="#">Minnesota</a>	2,258
	<a href="#">MIT</a>	2,127
	<a href="#">Stanford</a>	1,225
	<a href="#">MassGIS</a>	398
	<a href="#">Berkeley</a>	150

« Previous    Next »

- Individual technical infrastructures
- Federated metadata using github
- Agreed upon metadata standards for enhanced searching

# Building Communities



<http://opengeoportal.org>



<http://geoblacklight.org>  
<http://earthworks.stanford.edu>