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Census Geography Items in the Homer Babbidge Collection

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Census Geography Items in the Homer Babbidge Collection

Steve Batt

Bill Miller

University of Connecticut

Homer Babbidge Library

February 13, 2008 – Homer Babbidge Library

The Census Geographic Data Initiative is a project of the University of Connecticut Center for Geographic Information and Analysis. The UCCGIA was founded in 1997 with support from the Homer Babbidge Library, the Department of Geography, and the College of Liberal Arts and Sciences. The mission of the Center is to advance the use of geographic data and spatial analytic techniques in research, teaching, and service at the University of Connecticut and in the region it serves.

We would like to welcome you to the third in a series of four workshops sponsored by the Initiative.



Purpose of the Initiative

- To increase understanding and use of U.S. Census **geographic** data
- To design and create a geographic database of Connecticut census geography (1790 to 2000)
- To develop search and discovery tools using this database

The purpose of the UCCGIA's Census Geographic Data Initiative is threefold:

First, we want to increase understanding and use of U.S. Census **geographic** data in the University community and in the state.

Second, we are in the process of designing and creating a digital geographic database of Connecticut census geography for each decennial census from 1790 to 2000.

Third, we are working with colleagues in the Libraries' Information Technology Services Area to develop search and discovery tools that will use this database to find information. A 3-year grant proposal has been submitted to IMLS; Dr. Cromley will talk more about project in next presentation.



Four Workshops

- Geography of the 2000 Census
- Using the Census Web Site
- Census Geography Items in the Homer Babbidge Collection
- Census Enumeration Districts

As you know, this is the third workshop in this series.



Purpose of this Presentation

- Inform patrons about the procedures of finding Census geography items in the collection in the Homer Babbidge Library (HBL)
- Provide listings of Census geography items in the collection in HBL

Including examples of maps from Federal Documents, MAGIC, and Dodd Research Center collections; Homer search strategies; commercial products



Pre-1940 Census Maps

- Fewer geographic products
- Statistical reports mainly used mainly political, not statistical, geographical units
- In some cases, Census Bureau relied on commercially-produced maps in reports

For the most part, towns are the smallest census unit.

The University of Minnesota maintains a site for downloading historical boundaries. These boundaries would date back to the early 20th century in Connecticut. There may have been cities with census tracts.

Statistics by ward may be available for pre-1940 Census years.

Tracts started in metropolitan areas in 1910?20? In NYC/Boston



Bibliographies and Finding Aids

- Dubester's U.S. Census Bibliography with SuDoc Class Numbers and Indexes Babbidge Reference Level 1: Ref. HA 214 .C66 1996
- Serial Set index for cartographic materials: U.S. Serial Set Index: Index and Carto-bibliography of Maps Babbidge Reference Level 1: Ref. J 74 .C66 1975

Dubester numbers are the classification system used to shelve the Decennial census volumes up to the 1950 census in the Reference Census collection within the Federal Documents collection on Level B of the Homer Babbidge Library. Most of these materials are also cataloged in Homer.

The commercially-produced CIS index to the Serial Set is a vital aid to locating the many Census reports published in the Congressional Serial Set; the 'Carto-bibliography' identifies the thousands of maps included in the Serial Set volumes. Uconn's Serial Set collection is one of the most complete in the country, numbering over 10,000 volumes, is housed in the Dodd Research Center. Copying and scanning is available.

Enumeration District Boundaries

- Described in Manuscript Census microfilm
- Physical description only: e.g. Enumeration District 210 in Manchester in the 1910 Census consisted of addresses :

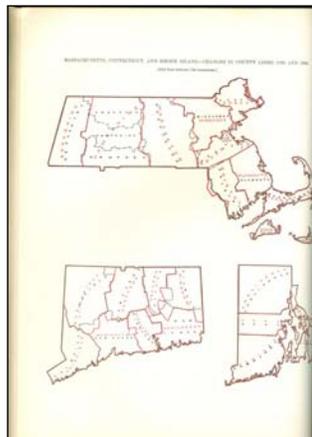
"North of center of Middle turnpike and east of center of Main, North Main St., Oakland St. and the line of Oakland St. extended to the northern boundary."

- [Library guide](#) available for pre-1940 Census publications
- Enumeration Districts are Focus of final presentation in Geographic Data series

Examples of maps used in early Census Publications

Massachusetts,
Connecticut and
Rhode Island –
Changes in County
Lines 1790-1900

From: United States
Bureau of the
Census. (1909). *A
century of population
growth, from the first
census of the united
states to the twelfth,
1790-1900* (Book
ed.). Washington,
D.C.: Government
Printing Office.



There seem to be few examples of maps produced by Census bureau produced prior to 1880. This map from a 1909 publication tracks the changes in county boundaries in three New England states from 1790-1900

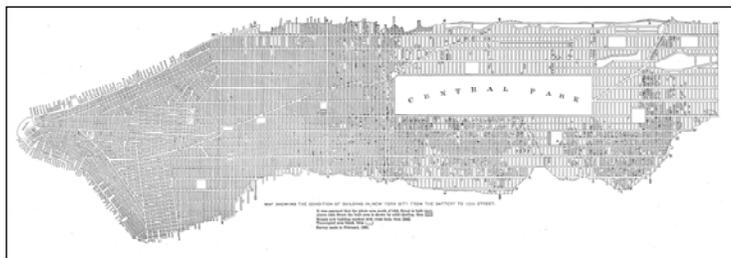


Examples of maps in 10th Census Publications (1880)

- All published in U.S. Congressional Serial Set, housed in Dodd Research Center
- Many significant Serial Set maps have been removed, stored, and scanned by MAGIC and are available through Homer

**New York
City, 1880**

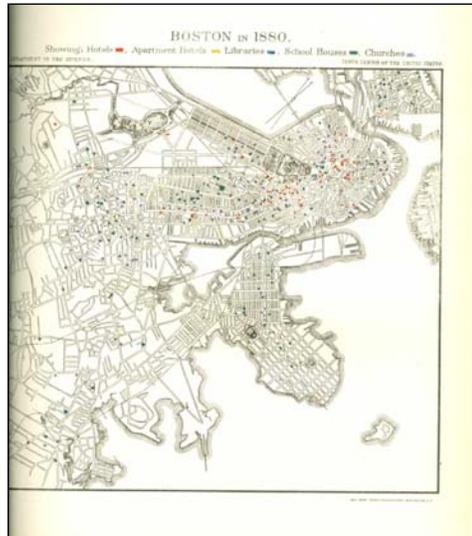
From: U.S.
Congressional
Serial Set Volume
2148 *Tenth*
Census, v. 18:
Social Statistics of
Cities pt. 1: New
York (47-2)
H.Misdoc.



Contains a historical sketch of New York City, and current information public services and infrastructure including markets, sanitation system, schools, fire & police departments. Essays on other New England cities are contained in this volume.

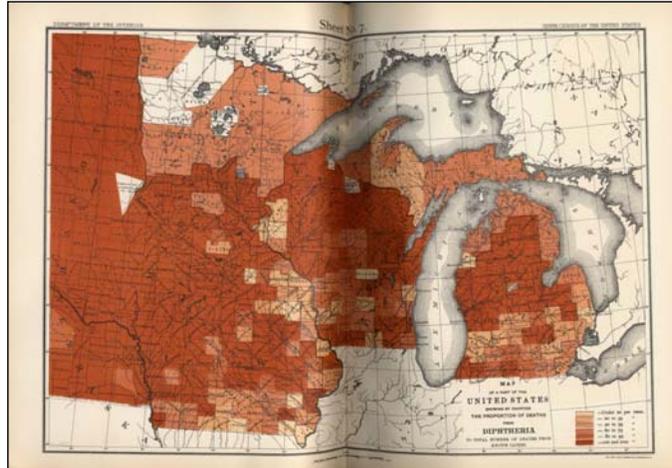
**Boston at the
time of the
10TH Census,
1880**

From: U.S.
Congressional
Serial Set Volume
2148 *Tenth
Census, v. 18:
Social Statistics of
Cities pt. 1: Boston*
(47-2) H.Misdoc



***U.S. Deaths by
Dyphtheria by
county, 1880***

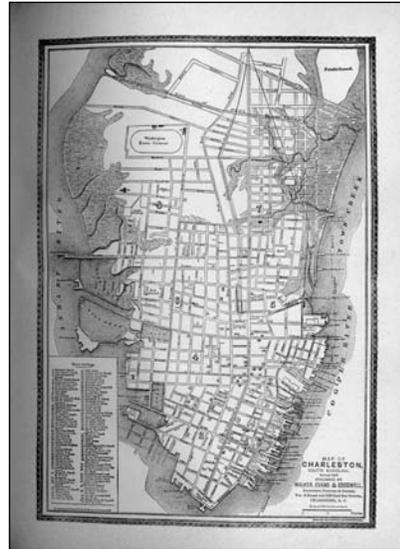
From: U.S.
Congressional Serial
Set Volume 2141 *Tenth
Census, v.12: Mortality
and vital statistics pt. 2*
(47-2) H.Misdoc



***Map of Charleson,
South Carolina.
Revised 1877.***

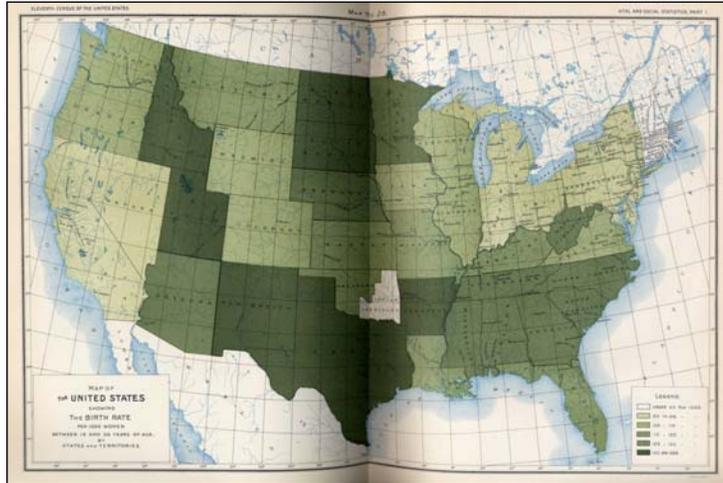
***Published by
Walker, Evans &
Cogswell***

From: U.S. Congressional
Serial Set Volume 2149
Tenth Census, v.19: Social
Statistics of Cities pt.2:
Charleston (47-2) H.Misdoc



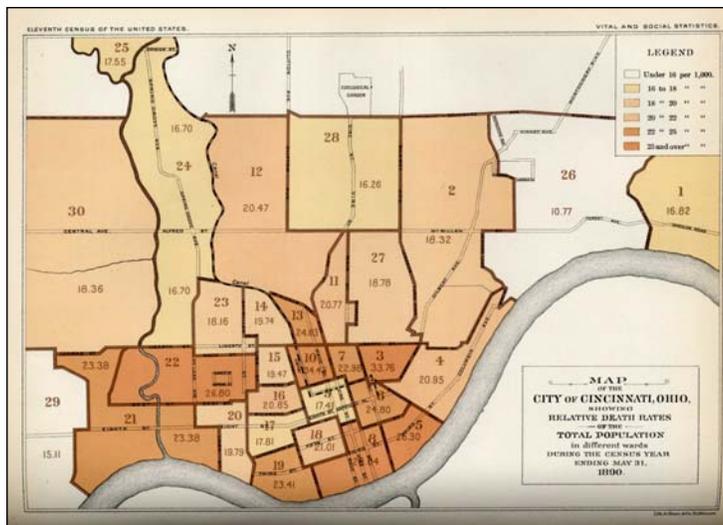
**Map of the
United States
Showing The
Birth Rate Per
1000 Women
Between 15
and 50 Years
of Age (1890
Census)**

From: U.S.
Congressional Serial
Set Volume 3033
Eleventh Census.
Vital and Social
Statistics pt. 1:
Analysis and rate
tables (52nd -1)
H.Misdoc



Map of the City of Cincinnati, Ohio. Showing Relative Death Rates of the Total Population in different wards during the census year ending May 31, 1890

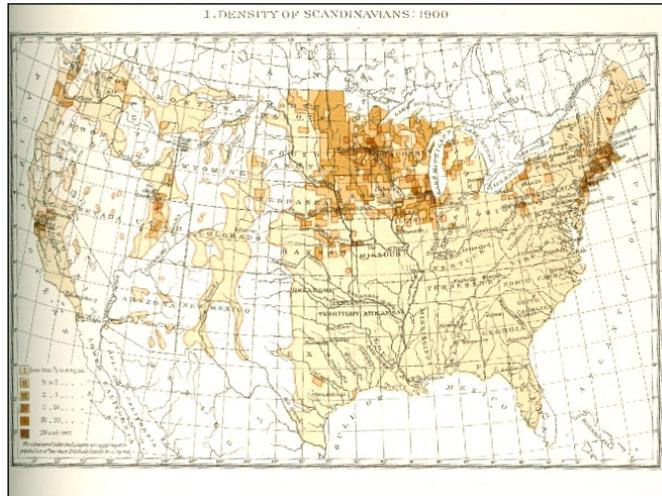
From: U.S. Congressional Serial Set Volume 3034 Eleventh Census. Vital and Social Statistics pt.2: Vital Statistics (52nd -1) H.Misdoc



It is unusual, before the 1910 Census, to see data (much less thematic maps) published reflecting geographic areas less than state, county or city.

***Density of
Scandinavians,
1900***

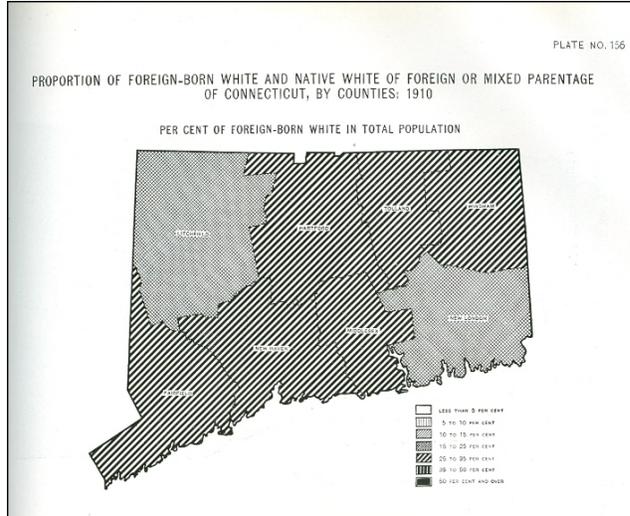
From: U.S. Census
Office: Statistical
Atlas (12th Census,
1900) Babbidge
Federal Documents
Reference Census
Collection, Ref.
Census 277



Statistical atlases accompanied the 12th and 13th censuses (1900&1910), with many color thematic maps.

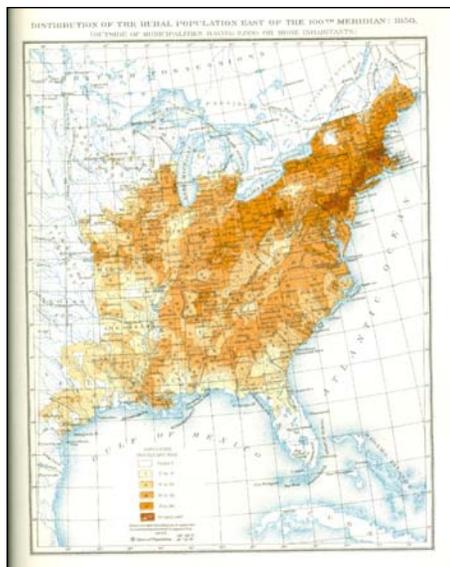
Proportion of Foreign-born White and Native White of Foreign or Mixed Parentage of Connecticut, by Counties: 1910

From: U.S. Bureau of the Census: *Statistical Atlas of the United States*. (13th Census, 1910) Babbidge Reference Census Collection: Ref. Census 346)



Distribution of the Rural Population East of the 100th Meridian, 1850.

From: U.S. Bureau of the Census: *Statistical Atlas of the United States*. (13th Census, 1910) Babbidge Reference Census Collection: Ref. Census 346)



A series of maps shows the population density per square mile of regions outside of larger cities, from the first census in 1790 through the 1910 Census. Many other color maps are included in this statistical atlas.

**Linguistic
Families of
American Indians
North of Mexico
by J.W. Powell.
1915**

From: U.S. Bureau of the
Census: *Indian
population in the United
States and Alaska*. 1910
(Babbage Federal
Documents collection,
Level B: C 3.2:ln 2/3)



**New Haven, Conn.,
by Census Tracts
and Blocks: 1940**

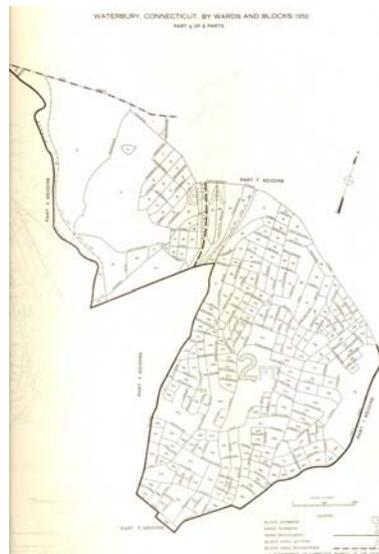
(Map prepared by
W.P.A. Project No.
165-2-97-66, New
York City)



“The concept of Census tracts was originated by Dr. Walter Laidlaw in New York City in 1906. He was convinced of the need for data for homogeneous subdivisions of cities as a basis for studying neighborhoods smaller than boroughs or wards. At his request, the Bureau of the Census tabulated census tract data from the 1910 Census for New York and seven other cities with a population over 500,000. Tract data were again tabulated for the same 8 cities in 1920, and in 1930 this number was increased to 18. In 1940, tract data were tabulated for 60 cities...” Including New Haven.

**Waterbury,
Connecticut By
Wards and
Blocks, 1950**

From: *1950 United States Census of Housing. Waterbury, Conn. Block Statistics*
Babbidge Reference
Census Collection,
Level B. C 3.950-8:
C76/W 29

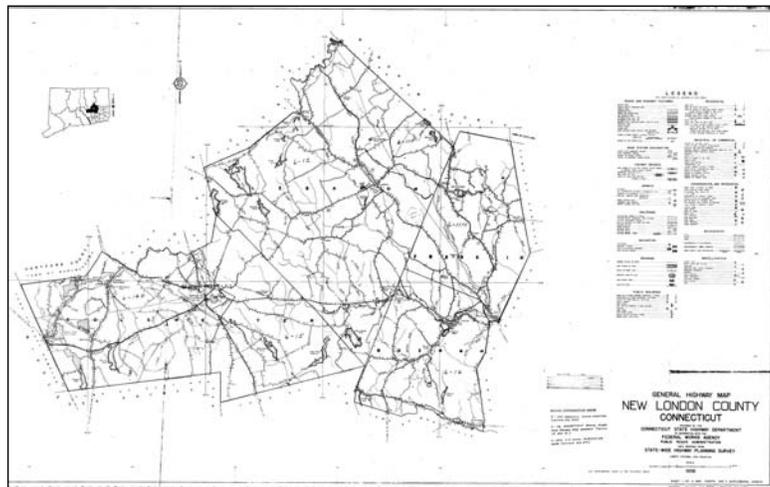


Reports in this series on Level B consist of separate reports for each of the 209 cities which in 1940, or in a subsequent census prior to 1950, had a population of 50,000 or more. Each report presents for the city, by blocks, tabulations for a limited number of subjects obtained in the Census of Housing. The Subjects are similar to those in the block statistics supplements to the 1940 census.



**New London
County,
Connecticut
Enumeration
District Map,
1960**

From: MAGIC
collections



The base of this map is a scanned general highway map from the Connecticut State Highway Department from 1938. It was annotated to show enumeration districts of the 1960 Census.

These maps have not been cataloged, which means they are not searchable in HOMER. However, they are available for viewing in the Map Library.

Collection of CT maps in Map Library with 1960 Enumeration Districts drawn on 1938 Maps Created by the Connecticut State Highway Department in Cooperation with the Federal Works Agency, Public Roads Administration. EDs are hand-drawn and are believed to be used by Census enumerators in the 1960 Census, the last to rely on door-to-door enumeration by Census personnel. No data was published by Enumeration District. Personal data from the 1960 Census will be released in 2030.

1960 last pre-computerized Census; not put on magnetic tape.

1970 Census Map Legend

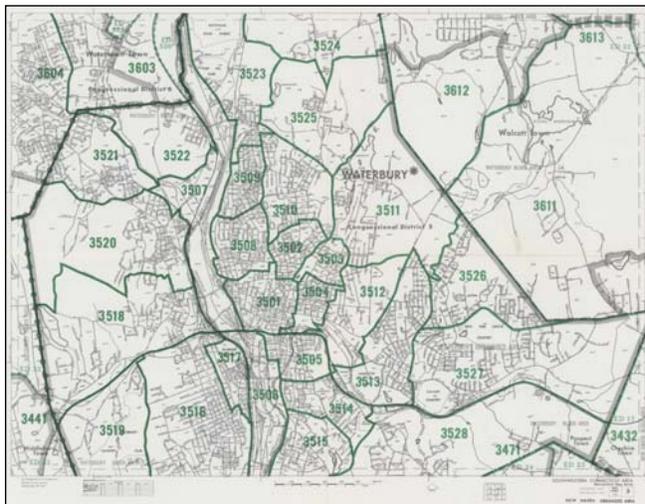
From: *1970 Census of Population and Housing. Series PHC(1)-227. Census Tracts. Waterbury, Conn. Standard Metropolitan Statistical Area (and adjacent area). Babbidge Federal Documents Collection, Level B: C 3.223/11: 970/227*



This legend for 1970 Census Boundary Symbols and Area Identifiers illustrates the numerous geographical features, political and statistical areas defined by Census maps in 1970; streets; political boundaries including counties, congressional districts, minor civil divisions (towns), incorporated places; Statistical units include Tract, Enumeration District, Blocks and Wards.

**Waterbury
Census Tracts,
Blocks,
Congressional
Districts 1970**

From: *1970 Census of Population and Housing. Series PHC(1)-227. Census Tracts. Waterbury, Conn. Standard Metropolitan Statistical Area (and adjacent area).* Babbidge Federal Documents Collection, Level B: C 3.223/11: 970/227

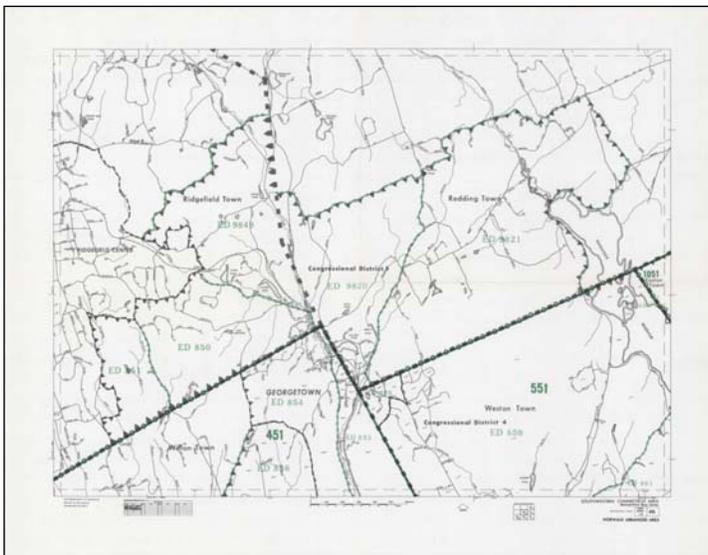


This 1970 Census map of Waterbury and surrounding area includes Minor Civil Division (town) and Congressional District boundaries, Tracts (enumerated in green), and block numbers.

The maps accompanying the 241 Census Tract Reports for the 1970 Census allow one to identify the correct tract numbers to find data in the statistical report. As with Census Tract reports for earlier censuses, more data on items such as income, occupation, education and nativity is available than within the Block Statistics reports.

**Redding,
Connecticut
Enumeration
District Map, 1970
Census**

From: *1970 Census of
housing. Block Statistics.
Waterbury, Conn.,
urbanized area.*
Babbidge Federal
Documents C 3.224/5:
970/42



Census tracts were not yet established for all areas in the 1970 Census. This map is from the report: *1970 census of housing. block statistics. waterbury, conn., urbanized area*. In the 1970 Census, 278 Block Statistics reports were issued for Urbanized Areas: central cities with a population of 50,000 or more and surrounding “closely settled” territory which meets a certain population density threshold. The Numerous maps accompanying this series allow one to identify the blocks and tracts for in towns in Litchfield and New Haven counties surrounding Waterbury, to identify the population and housing statistics provided in the accompanying report on: population, race group quarters, age, and characteristics of housing units.



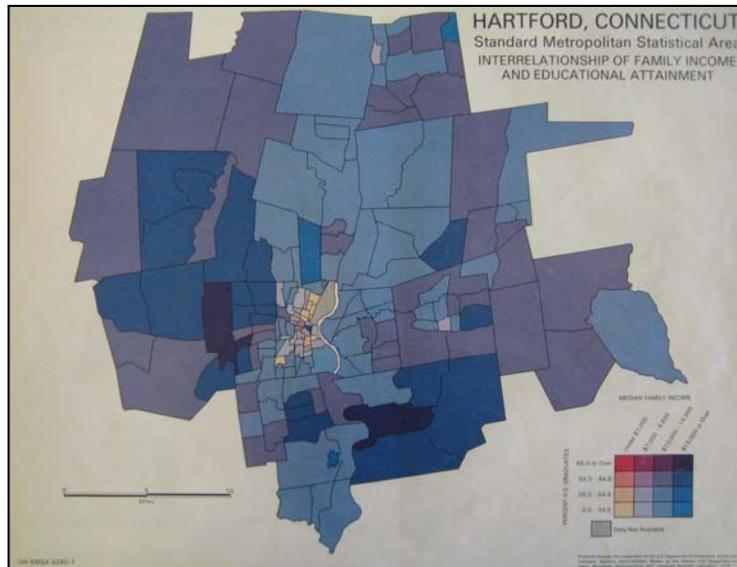
Urban Atlas, Tract Data for Standard Metropolitan Statistical Areas

Hartford, CT

1974

Map Library Double Oversize Section (ff)
Call Number: ff G1242 .H3E25 U5 1974

This image comes from the cover of the Urban Atlas, Tract Data for Standard Metropolitan Statistical Areas, for Hartford, Connecticut. This book is from 1974. The atlas is comprised of thematic maps based on basic Census data. The Map Library houses this atlas, as well as others from this Urban Atlas series.



Urban Atlas,
Tract Data for
Standard
Metropolitan
Statistical Areas

Hartford, CT

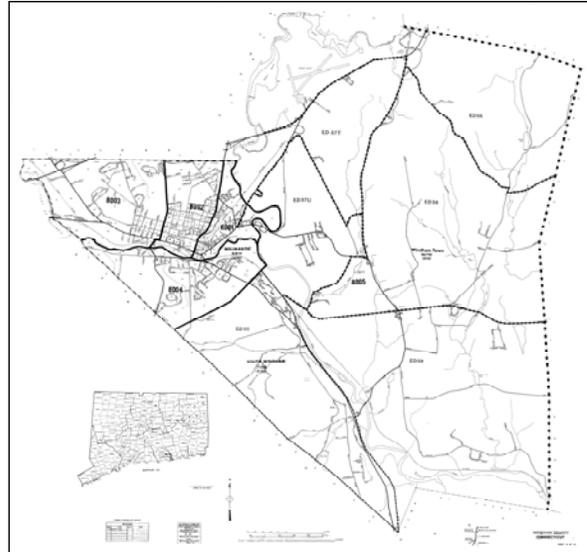
1974

This is one of the thematic maps found in the Urban Atlas, Tract Data for Standard Metropolitan Statistical Areas, for Hartford, Connecticut. This map shows the Interrelationship of family income and educational attainment. The areas with the highest percentage of graduates and highest income are indicated by the dark navy blue color.

**Windham area
Tract/Block map**

**1980 Census of
Population and
Housing**

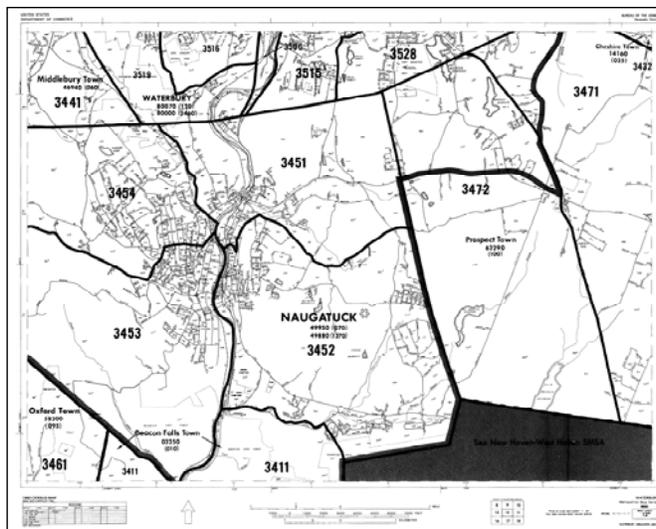
From: *1980 census of
population and housing,
block statistics : maps,
Connecticut, selected
areas.* Babbidge Federal
Documents C 3,224/5:
PHC 80-1-8/maps



**Naugatuck Area
Tract/Block
map**

**1980 Census
of Population
and Housing**

From: *1980
census of
population and
housing, block
statistics : maps,
Waterbury, Conn.
Standard
Metropolitan
Statistical Area.*
Babbidge Federal
Documents C
3.224/5: PHC 80-
1-366/maps)

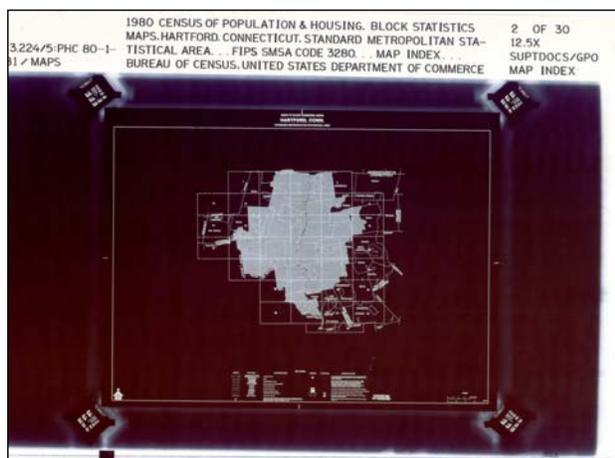


The Block Statistics Reports that were produced in the 1940-1970 censuses were discontinued with 1980, but the maps and reports that were produced for the 1980 Census are the most voluminous in the Babbidge Library's collections, comprising 41 shelves of materials. In addition to this block map series, fold-out maps accompany the 380 Census Tracts volumes of detailed statistical data.



Census Geographic Data Initiative

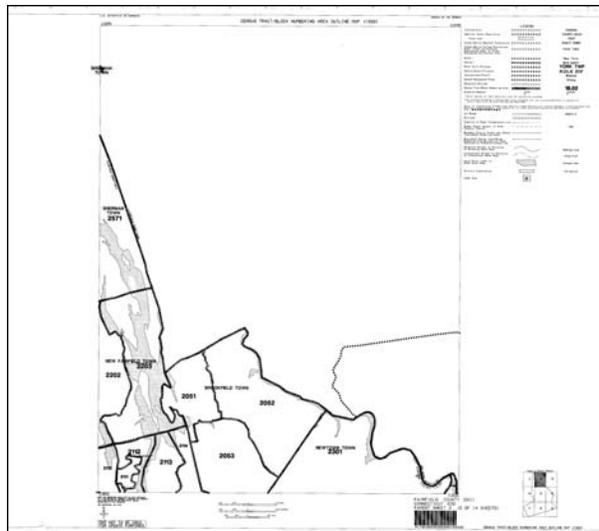
**1980 Block
and
Census
Tract Maps
were also
made
available
on 12,000+
microfiche!**



The complete set of paper maps for 1980 Block Statistics were reproduced on approximately 12,000 microfiche, available in the Microforms area of the Homer Babbidge Library Federal Documents collection, level B.

1990 Census
Tract/Block
Numbering Area
Outline Map

From: *1990 census of population and housing. Population and housing characteristics for census tracts and block numbering areas, maps. Waterbury, CT MSA*
Babbidge Federal Documents C
3.223/11:1990 CPH-3-332/MAPS



This is a scanned Census Tract/Block numbering area outline map, and is from 1990. The base map was generated using digital data obtained at 1:100,000 scale through a cooperative program with the United States Geological Survey (USGS), Department of the Interior.

A limited number of fold-out maps are available in the library, primarily for CT census tracts, which accompany the 40 shelves 1990 Census Volumes in Level B.

These maps have been cataloged, which means they ARE searchable in HOMER by title, and are available for viewing in the Map Library. The next slide shows an example of the HOMER record for this map series.



Census Geographic materials in Homer

- [HOMER](#) Library Catalog contains records for most Census materials 1976-present
- Advanced Search options allow results to be limited to Map Library



Census Geographic Data Initiative

[previous](#) [next](#) →
Brief Record Full Record MARC Format

1990 census of population and housing.

Database: UConn Libraries

Uniform Title: [Census of population and housing \(1990\)](#)

Title: 1990 census of population and housing. Population and housing characteristics for census tracts and block numbering areas, maps. Connecticut (outside metropolitan areas).

Variants Title: [Population and housing characteristics for census tracts and block numbering areas](#)
[Census tract/block numbering area outline map \(1990\)](#)
[Census tracts and block numbering areas, Connecticut \(outside metropolitan areas\)](#)
[Connecticut \(outside metropolitan areas\)](#)

Publisher: [Washington, D.C.] : Bureau of the Census : [Supt. of Docs., U.S. G.P.O., distributor, 1992]

Material Type: Map
Map

Subject(s): [Census districts --Connecticut --Maps.](#)
[Housing --Connecticut --Statistics --Maps.](#)
[United States --Census, 21st, 1990 --Maps.](#)
[Connecticut --Population --Statistics --Maps.](#)

Location: Babbidge Map Library-Level 4

Call Number: [G3781.E25 1990 U5](#)

Library Has: 001 (Fairfield) -- 011 (New London).

Status: Not Checked Out

Location: Babbidge Reference Census - Level B (Library Use Only)

Call Number: [C 3.223/11:1990 CPH-3-8/MAPS](#)

Status: Not Checked Out

This is HOMER record of the map from the previous slide. You can see that the series has only one call number, but the record indicates that the Map Library has the series 001 (Fairfield) through 011 (New London). These series are based mostly on counties, and each series is made up of a number of maps.



Census Geographic materials available through MAGIC

- Census Data that can be downloaded into a GIS program
- Census data files are organized by locally-produced derivative of Library of Congress classification
- Web site: <http://magic.lib.uconn.edu/>

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MAGIC Geospatial Data Resources

Connecticut Town Coverages

37840.078 Mansfield

Available Locations

Coverage	Download File	MetaData File	Notes	Producer
1990 Census Block Group	[SHP] [10 Kb]	Not Avail.	Census Block Group Level Digital Cartography	UCCGIA
1990 Housing Census Block Group	[EQ0] [15 Kb]	[META]	Census Housing/TigerLINE Data Block Group Level 1990	US_Census
1990 Housing Census Block Group	[MIF] [14 Kb]	[META]	Census Housing/TigerLINE Data Block Group Level 1990	US_Census
1990 Housing Census Tract	[EQ0] [9 Kb]	[META]	Census Housing/TigerLINE Data Tract Level 1990	US_Census
1990 Housing Census Tract	[MIF] [10 Kb]	[META]	Census Housing/TigerLINE Data Tract Level 1990	US_Census
1990 Population Census Block Group	[EQ0] [15 Kb]	[META]	Census Population/TigerLINE Data Block Group Level 1990	US_Census
1990 Population Census Block Group	[MIF] [14 Kb]	[META]	Census Population/TigerLINE Data Block Group Level 1990	US_Census
1990 Population Census Tract	[EQ0] [10 Kb]	[META]	Census Population/TigerLINE Data Tract Level 1990	US_Census
1990 Population Census Tract	[MIF] [10 Kb]	[META]	Census Population/TigerLINE Data Tract Level 1990	US_Census
1995 Drainage Basins	[DXF] [75 Kb]	[META]	Drainage Basin Areas 1969-1984	Conn DEP
1995 Drainage Basins	[EQ0] [91 Kb]	[META]	Drainage Basin Areas 1969-1984	Conn DEP

<http://magic.lib.uconn.edu/> to Town Level under MAGIC Geospatial Data

This slide is a screen shot from the Map and Geographic Information Center Web site (which you can see at the bottom of the slide). This view shows that we selected Town Level coverages, and then selected Mansfield, from the dropdown list, as the town. The red arrow on the left points to one of the Census data files available for this particular town.



Geolytics, Inc. Products

- Commercially-produced Census data and mapping products available for use in Homer Babbidge Library
- Data and maps available for 1970-2000 Census
- Geolytics web site: www.geolytics.com

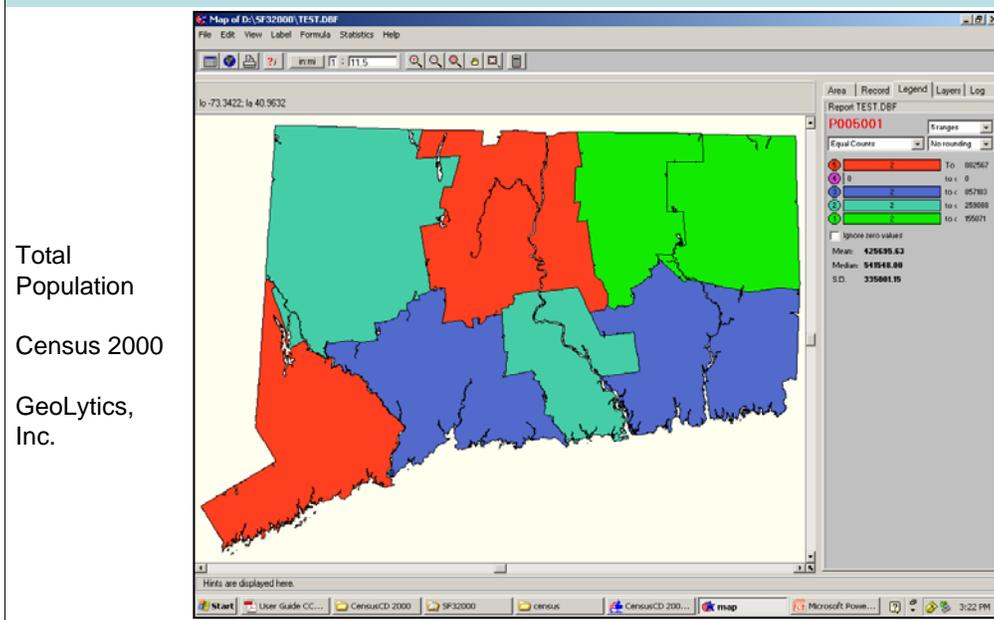
[CensusCD 1970](#) - [1970 Census](#) Long Form data with over 5,000 variables. It has data and mapping capabilities for counties and tracts, and data only for MCDs and places. The country was not fully tracted in 1970; there is no tract data available in untraced areas. **1970 Boundaries:**

1970 Boundaries were created by GeoLytics for tract, State, and County. These boundaries were built from the 1970 tract Urban Atlas project. These data were digitized from the 1970 tract maps back in 1975. They represent the first digital set of boundary files ever created. The state, region, and division boundaries were taken from 1980 boundaries, since little or no changes occurred at these levels. Boundaries for 1970 Places and MCD's were not included because spatial definitions for these areas were not available.

CensusCD 1980 - The complete 1980 Census Long and Short Form data sets. This CD includes 1500 variables: 1200 from the Long Form and 300 from the Short Form. Data and mapping capabilities for county, MCD, place, tract and block group. The country was not fully tracted in 1980; there is no tract or block group data available in untraced areas.

[CensusCD 1990 Long Form](#) - Complete [1990 Census](#) Long Form (STF3) census data, plus a built-in mapping function. Includes about 3500 variables and 11 boundaries such as tracts, block groups, zip codes, MSA and more.

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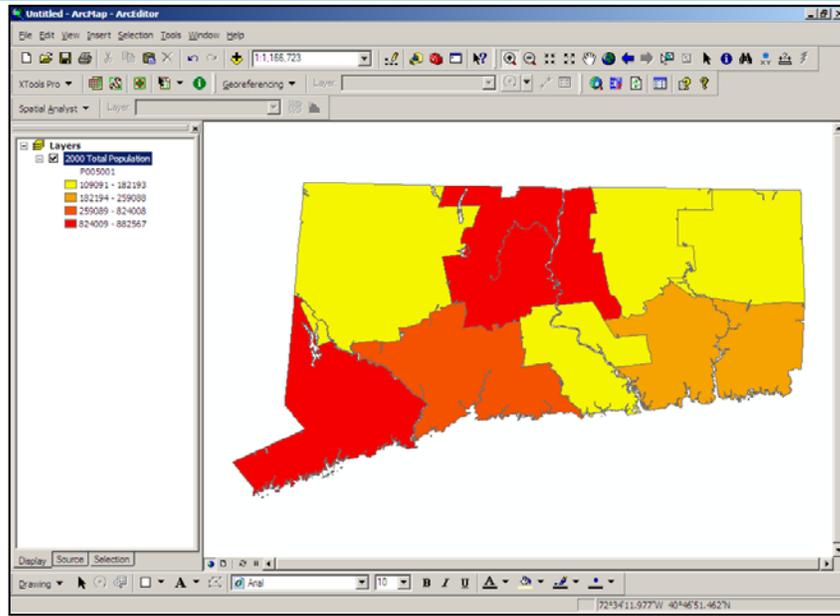
This is a screen shot from the GeoLytics, Inc. Census 2000 software. This map represents the total population, by county, of the state of Connecticut from the 2000 Census. This data, the DBF (database file) can be exported to a SHP (shapefile), which can be brought into ArcView GIS and ArcGIS.

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Total
Population

Census
2000

(GeoLytics
data
brought
into
ArcMap)



This is a screen shot of the GeoLytics, Inc. Census 2000 data, which have been brought into ArcMap. The GeoLytics data are recorded in latitude and longitude. These data are unprojected. The projection utility function in Arc GIS can be used to project these coordinates into Conn. State plane coordinate system. Here you can see the total population is illustrated using graduated color. So the darker colors indicate the higher population.



Census Geographic Data Initiative

Fourth (Final) CGDI Workshop

Census Enumeration Districts

March 19, 2008

2:00 – 3:00 pm

Library Level 2 Lecture Center

To register: Library web site:

www.lib.uconn.edu Select: Using the Library
> Workshops

Census geographic data can be downloaded from the Census web site and can be acquired from the collections at Babbidge Library.

The final workshop in this series will focus on Census enumeration districts. People interested in attending can register through the Library's web site.

Thank you for your participation in the workshop.



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Liaison

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