

Collecting and Interpreting Data

University of Massachusetts

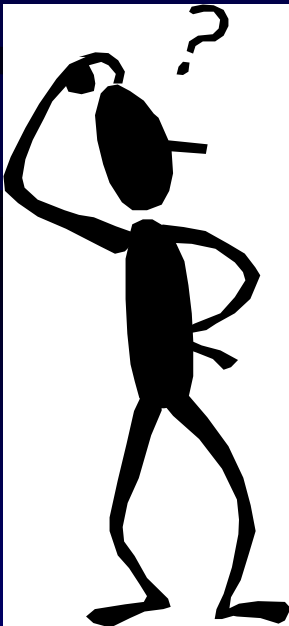
Citizen Scholars Class

April 16, 2003

Data and knowledge are not the same thing

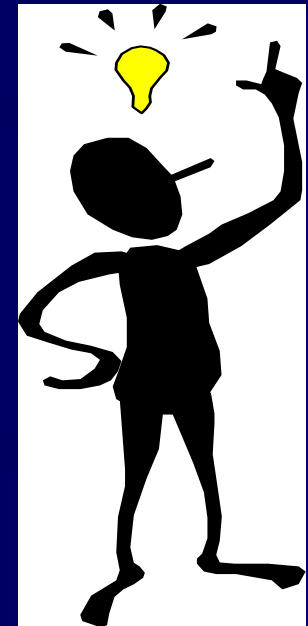
Data

Individual facts, statistics, or items of information



Knowledge

Acquaintance with facts, truths, or principles, as from study or investigation



Data Analysis

&

Presentation

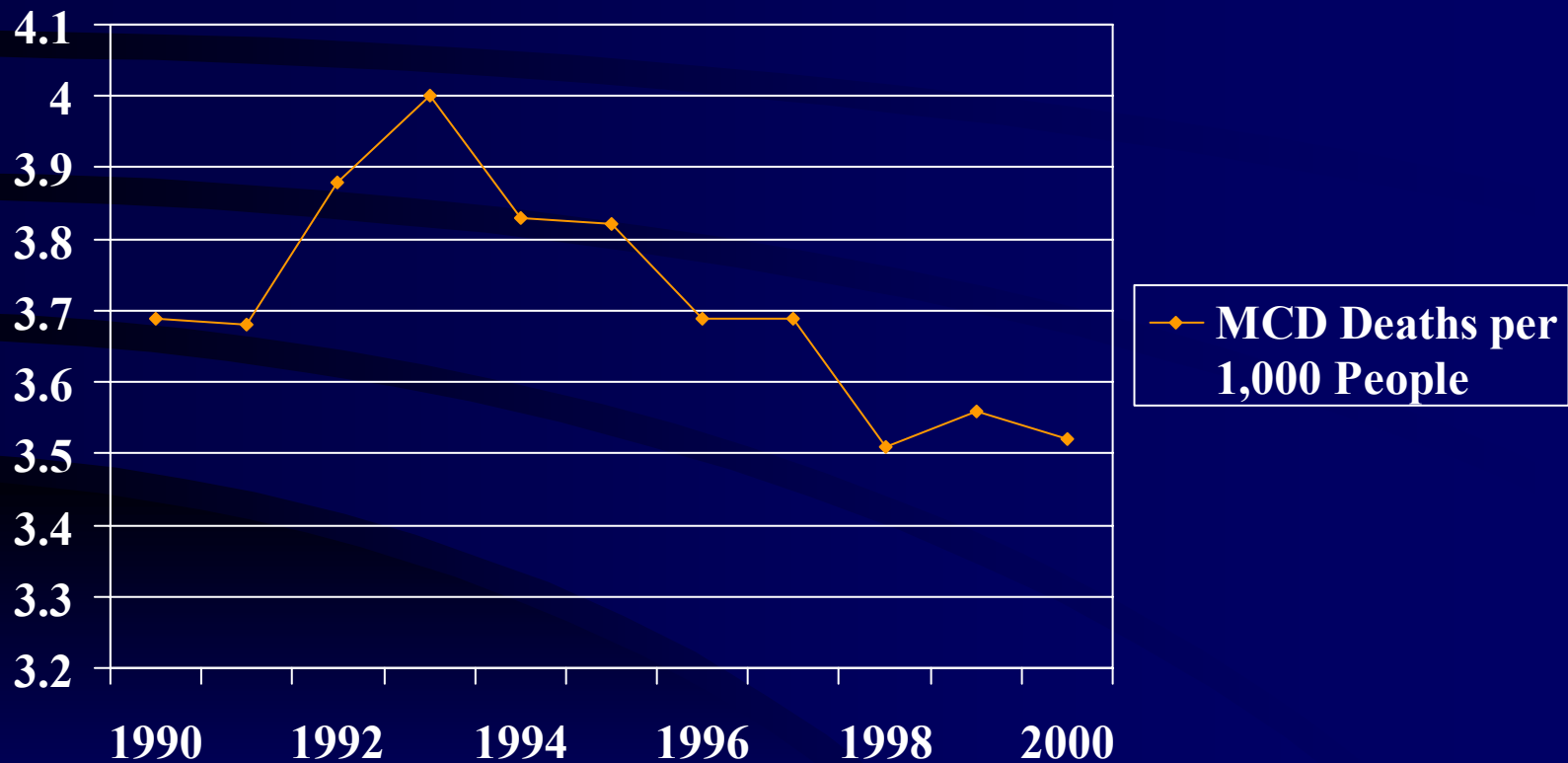
You can have lots of data and know nothing.

Data: Deaths from Major Cardiovascular Disease in the Pioneer Valley Region

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MCD Deaths	2,229	2,218	2,340	2,413	2,312	2,309	2,225	2,230	2,126	2,163	2,144
Population	603,765	602,886	602,439	602,990	604,128	603,922	603,331	604,675	605,809	607,147	608,694

Source: MA Department of Public Health, MassCHIP Database

Knowledge: Deaths from Major Cardiovascular Disease per 1,000 people



Source: MA Department of Public Health, MassCHIP Database

Using Indicators

- Indicators are a way of presenting data that
 - Sometimes combine multiple pieces of data;
 - Can be more simply understood; and,
 - Lend themselves to analysis of trends over time.

Examples of Indicators

- Poverty rate
- Mortality rate
- Birth rate
- Housing vacancy rate
- Housing affordability ratio

Using Indices

- Indices are values that:
 - Do not reflect actual numbers;
 - Illustrate differences in data over time; and,
 - Allow the combination of multiple data sets into one measure.

An Example of an Index

- The Consumer Price Index
 - One year (or the average of several years) is held as the constant and is defined as equaling 100.
 - As new data is released, it is divided by the constant and then multiplied by 100 to yield an index value.
 - Therefore, if 1984=100 and then by 1986 the Consumer Price Index is 104.5, then you would report a 4.5% increase in Consumer Prices from 1984 to 1986.

Key Data Sources

- U.S. Census Bureau:
 - Decennial Census (every ten years)
 - County Business Patterns (annual)
 - Housing Survey (every other year)
 - Economic Census (every five years)

www.census.gov

Key Data Sources

- MA Department of Employment and Training
 - Unemployment rates
 - Employment by industry sector
 - Occupation data

www.detma.org

Key Data Sources

- MA Department of Public Health
 - Hospitalizations
 - Vital records (births and deaths)
 - Substance abuse
 - Behavioral risk factors survey

www.state.ma.us/dph/bhsre/bhsre.htm

MassCHIP database

Key Data Sources

- MA Department of Education
 - School district profiles
 - Enrollment
 - Dropout rates
 - Free/reduced lunch data
 - MCAS results

www.profiles.doe.mass.edu (District profiles)

www.doe.mass.edu/mcas/results.html (MCAS)

MassCHIP database (some data)

Key Data Sources

- MA Department of Revenue
 - Municipal expenditures
 - Municipal revenues
 - Property tax rates
 - Municipal debt service

www.dls.state.ma.us/mdm.htm

Key Data Sources

- MA Department of Transitional Assistance
 - TANF caseloads (welfare)

www.state.ma.us/dta/dtatoday/facts/index.htm

MassCHIP database

Key Data Sources

- MA Board of Higher Education
 - Enrollments at colleges and universities
 - Graduates from colleges and universities
 - College and university profiles

www.mass.edu

Key Data Sources

- MA State Police
 - Crime data

www.state.ma.us/msp/cru/spresrch.htm

Key Data Sources

- U.S. Department of Housing and Urban Development
 - FBI Crime data (violent and property crime)
 - Limited Census data
 - Building permit data

socds.huduser.org/index.html

How to Extract Data

- Identify a question you want to answer
- Identify a potential quantitative response to the question
- Pick various selectors (geography, age, gender, etc.) to define who and where you want data for
- Identify a data source(s) that might have necessary information
- Knowing selectors and necessary data, extract information

3 Data Extraction Examples

- U.S. Census Bureau - American FactFinder
 - Poverty rate of Amherst, MA
- U.S. Dept. of Housing and Urban Development
 - Single family building permits in the last three years in Amherst, MA
- MA Dept. of Public Health - MassCHIP
 - Percent of all births to Amherst, MA mothers in 2000 for which the baby had low-birth weight

U.S. Census Bureau

United States Department of Commerce



U.S. Armed Forces & Veterans
Facts for Features

Subjects A to Z
ABCDEFGHI
JKLMNOPQ
RSTUVWXYZ

New on the Site

Search

American FactFinder

Access Tools

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Catalog

Publications (PDF)

Related Sites



[Census Bureau Director visits the Aloha State](#)



[Your Gateway to Census 2000](#) · [Summary File 3 \(SF 3\)](#)

People

[Estimates](#) · [2001 Area Profiles](#) · [Projections](#) · [Income](#) · [Poverty](#) · [International](#) · [Genealogy](#) · [Housing](#)

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Geography

[Maps](#) · [TIGER](#) · [Gazetteer](#)

Newsroom

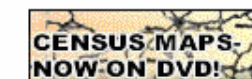
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[Population Clocks](#)

U.S. 290,733,926
World **6,286,871,161**
14:19 EDT Apr 15, 2003



Select a state

[Go!](#)

[Latest Economic Indicators](#)



Search

keyword
 geography

Go

-- or --


Enter a street address
to find Census 2000 data

Your source for population, housing, economic and geographic data.

Basic Facts Popular tables and maps for the U.S., states, counties, cities, towns, and American Indian reservations

Tables

	States	Blocks
Under 1 year	86,407	3,754
1 and 2 years	109,748	21,144
3 and 4 years	176,138	27,942
5 years	88,978	13,844
6 years	47,029	13,000

Maps 

Show me Economic Characteristics: Employment, Income, Poverty and more

for the United States **Go**

What's New

- 108th Congressional District Summary File Release
 - Release of American Samoa Summary File
 - New Features in American FactFinder
 - Summary File 2 Final National Release
 - Population Estimates for 2002
- [more...](#)

Items of Interest

- Census 2000 Gateway
 - Census 2000 Release Schedule
 - Census 2000 Notes and Errata (PDF - 1.9 MB)
- [more...](#)

About this site

- Site Tour
- Confidentiality
- Browser note

Data Sets All tables and maps for all geographies including the U.S., states, counties, cities, towns, American Indian reservations, metropolitan areas, zip codes, census tracts, blocks, and more

United States Census 2000 Age, Hispanic or Latino Origin, Household Relationship, Owners and Renters, Race, Sex, and more...

- [2000 Summary File 1](#) Complete geographic detail to the block level.
- [2000 Summary File 2](#) Subjects for up to 249 race or ethnic groups.
- [1990 Summary Tape File 1](#) Similar subjects from the 1990 Census.

Ancestry, Citizenship, Disability, Educational Attainment, Income, Industry, Language Spoken at Home, Marital Status, Migration, Occupation, Place of Birth, Place of Work, Poverty, Rent, School Enrollment, Tenure, Units in Structure, and more...

- [2000 Summary File 3](#) Social, economic, and housing data to the block group level.
- [1990 Summary Tape File 3](#) Similar subjects from the 1990 Census.

Data from Census 2000 have been retabulated for the 108th Congressional District boundaries.

- [108th Congressional District Summary Files](#) Subjects as in Summary Files 1 and 3 to the census tract level.

Annual Releases
[Special Supplemental Census](#) Estimates of detailed subjects for all

Select a data set below, or download data sets via [FTP](#) | [Future Releases](#)

- Census 2000 Summary File 3 (SF 3) - Sample Data**
Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population.
[Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2](#)
- American Samoa Summary File**
This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
- Guam Summary File**
This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
- U.S. Virgin Islands Summary File**
This file presents information about housing units and people in the U.S. Virgin Islands. All questions were asked of all persons, so both basic subjects (in SF1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
- Census 2000 Summary File 2 (SF 2) 100-Percent Data**
Population and housing characteristics iterated for many detailed race and Hispanic or Latino categories, and American Indian and Alaska Native tribes

Select from the following options:

- [Detailed Tables](#)
- [Geographic Comparison Tables](#)
- [Quick Tables](#)
- [Thematic Maps](#)
- [Reference Maps](#)
- [Custom Table](#)
- [Enter a table number](#)
- [List all tables](#)
- [List all maps](#)
- [About this data set](#)
- [Technical Documentation \(PDF\)](#)

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

Choose a selection method list name search address search map geo within geo

Select a geographic type [Explain Census Geography](#)

show all [geography types](#)

Select one or more geographic areas and click 'Add'

- All States
- Alabama
- Alaska
- Arizona
- Arkansas
- California

Map It

Add ▼

Remove ▲

[Empty selection box]

Next ▶

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

Choose a selection method list name search address search map geo within geo

[Explain Census Geography](#)

Select a geographic type show all [geography types](#)

Select a state

Select a county

Select one or more geographic areas and click 'Add'



Add ▼ **Remove ▲**



Next ►

Detailed Tables > Select Geography Current Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data Current Selections

Choose a selection method list name search address search map geo within geo

[Explain Census Geography](#)

Select a geographic type County Subdivision

show all [geography types](#)

Select a state Massachusetts

Select a county Hampshire County

Select one or more geographic areas and click 'Add'

- All County Subdivisions
- Amherst town
- Belchertown town
- Chesterfield town
- Cummington town
- Easthampton city

Map It

Add

Remove

==== County Subdivision =====
Amherst town, Hampshire County, Massachusetts

Next

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

• Search show all tables by subject by keyword

• Select a subject and click 'Search'
.... Poverty (Families and Unrelated Individuals) **Search**

• Select one or more tables and click 'Add'
P87. Poverty Status in 1999 by Age
P88. Ratio of Income in 1999 to Poverty Level
P89. Poverty Status in 1999 by Age by Household Type
P90. Poverty Status in 1999 of Families by Family Type by Presence and Age of Related Children <18 Years
P91. Aggregate Income Deficit in 1999 (Dollars) for Families by Family Type
P92. Poverty Status in 1999 of Households by Household Type by Age of Householder

What's this?

Add ▼ **Remove ▲**

[Empty box for selected tables]

Show Table ▶

U.S. Census Bureau American FactFinder

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| [Change Selections](#) |

Detailed Tables ▶ **Select Tables**

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

• Search show all tables by subject by keyword

• Select a subject and click 'Search'

.... Poverty (Families and Unrelated Individuals) **Search**

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What's this?

Add ▼ **Remove** ▲

P87. Poverty Status in 1999 by Age

Show Table ▶

U.S. Census Bureau **American FactFinder**

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Options
Change Selections
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Related Items

[Load Query](#) | [Save Query](#)

[P87. POVERTY STATUS IN 1999 BY AGE \[17\] - Universe: Population for whom poverty status is determined](#)

Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#)

NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidentiality protection, sampling error, nonsampling error, and definitions see <http://factfinder.census.gov/home/en/datanotes/expsf3.htm>.

Amherst town, Hampshire County, Massachusetts	
Total:	22,419
Income in 1999 below poverty level:	4,530
Under 5 years	127
5 years	12
6 to 11 years	149
12 to 17 years	122
18 to 64 years	4,043
65 to 74 years	4
75 years and over	73
Income in 1999 at or above poverty level:	17,889
Under 5 years	737
5 years	202
6 to 11 years	1,276
12 to 17 years	1,668
18 to 64 years	11,882
65 to 74 years	1,133
75 years and over	991

U.S. Census Bureau
Census 2000

Standard Error/Variance documentation for this dataset:
[Accuracy of the Data: Census 2000 Summary File 3 \(SF 3\) - Sample Data \(PDF 141.5KB\)](#)

Detailed Tables ▶ Download

Select a download format [Explain my choices](#)

Presentation (include titles, headnotes, footnotes)

- Comma delimited (.csv)
- Comma delimited (.csv) (transpose rows and columns)
- Tab delimited (.lst)
- Tab delimited (.lst) (transpose rows and columns)
- Rich Text Format (.rtf)
- Rich Text Format (.rtf) (transpose rows and columns)

Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file

- Microsoft Excel (.xls)
- Comma delimited (.txt)

Include descriptive data element names

[Technical Documentation \(PDF\)](#)

6 to 11 years	1,276
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PATH
 University Partnerships
 Regulatory Barriers
 State of the Cities



Data Sets

State of the Cities Data Systems (SOCDS)

The SOCDS provides data for individual Metropolitan Areas, Central Cities, and Suburbs.

For detailed demographic and economic characteristics of the population see:

Data from the 1970, 1980, 1990, and 2000 Census

For the latest available unemployment rates see:

Current Employment Statistics for City Residents

For information on Jobs, Business Establishments, and Average Pay in the 1990s see:

Special City Extracts from County Business Patterns

For data on violent and property crime rates collected by the FBI see:

FBI Crime Data

For information on local building permits see:

Building Permits Database

For information on city and suburban government finances see:

Urban Public Finance Data

- View Data Sets by Topic**
- ▶ [Data Sets](#)
 - ▶ [American Housing Survey](#)
 - ▶ [Annual Adjustment Factors](#)
 - ▶ [Assisted Housing: National and Local](#)
 - ▶ [Fair Market Rents](#)
 - ▶ [50th Percentile Rent Estimates](#)
 - ▶ [Geographic Information Systems](#)
 - ▶ [Government Sponsored Enterprise Data](#)
 - ▶ [Income Limits](#)
 - ▶ [Low-income Housing Tax Credit](#)
 - ▶ [Property Owners and Managers Survey](#)
 - ▶ [Qualified Census Tracts and Difficult Development Areas](#)
 - ▶ [Section 8 Administrative Fees](#)
 - ▶ **State of the Cities Data Systems**
 - ▶ [Manufactured Home and Subprime Lender List](#)

Select States:

Alabama	▲
Alaska	▲
Arizona	▲
Arkansas	▼

Select Metropolitan Areas:

Abilene, TX MSA	▲
Akron, OH PMSA	▲
Albany, GA MSA	▲
Albany--Schenectady--Troy, NY MSA	▼

Select Data:

Monthly
 Annual

Select Years:

1997	▲
1998	▲
1999	▲
2000	▲
2001	▼

Select Series:

All Permits
 Single Family
 All Multifamily
 2-Unit Multifamily
 3 & 4-Unit Multifamily
 5+-Unit Multifamily

SOCDS Building Permits Database

This database contains data on permits for residential construction issued by about 18,000 jurisdictions collected in the Census Bureau's Building Permits Survey. ([Documentation available here.](#)) You can create output tables at the State, county, metropolitan area ([1999 MSA/PMSA definition](#)) or permit-issuing jurisdiction level. Monthly data are available from January 1997 through February 2003 for about 9,000 jurisdictions that respond to the monthly survey. The remaining jurisdictions report annual data only. Annual data are available from 1980 through 2001. State and metropolitan area monthly data do not include imputations of data, created by the Census Bureau, for the jurisdictions within them that report only annual data.

This site is best viewed with your monitor set to a resolution of 1024x768 pixels and your browser's variable width font size set at 10 points, or at a monitor setting of 800x600 pixels and variable width font size of 8 points. If you are unable to configure your monitor and browser to these parameters, click [here](#) for a sequential version of the system.

To retrieve data:

1. Select one or more States or one or more Metropolitan Areas. You will be given further choices based on your selection. To select county-level data you must first select one or more States.
2. Select individual jurisdictions or use the checkboxes to select State, County, or Metropolitan Area totals, or all jurisdictions within the States, Counties, or Metropolitan Areas you selected.
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4. Select the series you wish to display in your output.
5. Click a "Get Data" button to see your output. Data are provided initially in tabular form, but a

Select States:

- Louisiana
- Maine
- Maryland
- Massachusetts

State Total All Jurisdictions in State

Select Counties:

- Franklin County, MA
- Hampden County, MA
- Hampshire County, MA
- Middlesex County, MA

County Total All County Jurisdictions

Sum of Selected Counties

Select Permitting Jurisdictions:

- AMESBURY TOWN, MA
- AMHERST TOWN, MA
- ANDOVER TOWN, MA
- AQUINNAH TOWN, MA

Sum of Selected Jursdictions

Get Data

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 Annual

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- 1998
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 Sum of Selected Counties

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 AMESBURY TOWN, MA
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 ANDOVER TOWN, MA
 AQUINNAH TOWN, MA

Sum of Selected Jurisdictions

Get Data

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Select Years:
 1997
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 1999
 2000
 2001

Select Series:
 All Permits
 Single Family
 All Multifamily
 2-Unit Multifamily
 3 & 4-Unit Multifamily
 5+-Unit Multifamily

Get Data

SOCDS Building Permits Database -- Output

Housing Unit Building Permits for: Hampshire County, MA			
	1999	2000	2001
Units in Single-Family Structures	432	356	370

Housing Unit Building Permits for: AMHERST TOWN, MA (in Springfield, MA MSA)			
	1999	2000	2001
Units in Single-Family Structures	26	32	37

Click for Comma-Delimited Output

**Bureau of Health
Statistics, Research &
Evaluation**

- [Division of Research & Epidemiology](#)
 - [Health Survey Program](#)
- [Injury Surveillance Program](#)
- [MassCHIP](#)
- [Massachusetts Cancer Registry](#)
- [Massachusetts Center for Birth Defects Research and Prevention](#)
- [Occupational Health Surveillance Program](#)
- [Registry of Vital Records](#)

Reports by Topic

- [Births and Deaths](#)
- [Cancer](#)
- [Chronic Disease](#)
- [Elders](#)

The **Bureau of Health Statistics, Research and Evaluation, (BHSRE)** monitors the health status of Massachusetts residents through collecting information on births, deaths, newly diagnosed cases of cancer, occupational conditions and illnesses, and health behaviors.

BHSRE provides information that is essential for identifying local and statewide problems, while targeting and evaluating public health programs.

Information is made available to the through publications, Community Health Network reports, the Massachusetts Community Health Information Profile (MassCHIP) electronic information service, and consulting and technical assistance.

250 Washington Street, 6th Floor
Boston MA, 02108
(617) 624-5600 - Telephone
(617) 624-5695 - Fax
Daniel J. Friedman, Ph.D.
Assistant Commissioner

[Information Resource Guide](#) (updated September 2002)



The Massachusetts Department of Public Health

'Helping People Lead Healthy Lives In Healthy Communities'

- [MassCHIP Home](#)
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Welcome!

DPH Home

Massachusetts Community Health Information Profile (MassCHIP)

For your city or town, would you like to know information such as:

- The percentage of mothers receiving adequate prenatal care
- The number of admissions to substance abuse treatment programs
- The birth rate for teenagers
- The percentage of current smokers
- Public school expenditures per student

The Massachusetts Community Health Information Profile (MassCHIP) is a dynamic, user-friendly information service that provides free, online access to these and many other health and social indicators. With MassCHIP, you can obtain community-level data to assess health needs, monitor health status indicators, and evaluate health programs.

Community-level data can be accessed through MassCHIP in two ways, both having a tremendous wealth of information. One way is by generating [Instant Topics](#) (formerly known as standard reports), which are predefined reports using MassCHIP's most recent data. Another way for an even more in-depth view of your data source and particular selectors, not available within Instant Topics, is by creating user-defined [Custom Reports](#).

Currently, MassCHIP is making its transition onto the web with the first phase



**The Massachusetts Department of Public Health
Massachusetts Community
Health Information Profile**

MassCHIP Custom Reports

MassCHIP Custom Reports are created through user-defined queries. These reports provide a great deal of flexibility and a more in-depth look with user-selected choices of data sets of interest, their respective variables, and statistical measures. Mapping and Charting features are also available through Custom Reports.

To access *MassCHIP Custom Reports*, you must be identified as a MassCHIP User and then download and install the MassCHIP Client:

If you are an existing user and wish to access the custom report function in MassCHIP you must open the MassCHIP client that resides on your hard drive. To download the latest version of MassCHIP go to [the MassCHIP download page](#).

If you would like to become a new user, please read the following [End User Software License Agreement](#). After reading the End User Software License Agreement, please follow the link to the Electronic, On-line Registration Form.

You simply need to have an internet connection and define your own custom report queries in order to access data from our servers.

We are currently working to move the user-defined MassCHIP Custom Reports onto the web. The first phase of this MassCHIP web transition can be seen through the predefined Instant Topics (formerly Standard Reports) which are now available on the web.

Click here to explore [MassCHIP Instant Topics](#)



Standard Report Custom Report

Report Name	Saved Date
All Cities/Towns Template	8/23/02
All Cities/Towns Template - Briths Dataset Only	8/23/02
Cancer Test Query	8/23/02
Elder Mental Disorder Hospitalizations	3/28/03
Elder Suicides	3/28/03

New
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Find



Data Set
Data Element
Selector Value

- Behavioral Risk Factor Surveillance System (BRFSS) Massachusetts State Totals
- Behavioral Risk Factor Surveillance System (BRFSS) Selected Cities
- Cancer Registry
- Child Care Services (OCCS)
- Communicable Disease Programs
- Demographic / Census Files
- Department of Education (DOE)
- Department of Social Services (DSS)
- Department of Transitional Assistance (DTA)
- Early Intervention (EI) Program Utilization - Calendar Year
- Early Intervention (EI) Program Utilization - Fiscal Year
- Employment and Training (DET)
- Hospital Discharges (UHDDS)
- Lead Poisoning Prevention Program (CLPPP)
- Medicaid (MassHealth)
- Mortality (Vital Records) ICD 9 based
- Mortality (Vital Records) ICD 10 based
- Nativity (Vital Records)
- Physicians Registered and Working in Massachusetts
- Substance Abuse (BSAS) DPH Funded Program Utilization
- WIC Program Utilization (Dec. Participation)
- WIC Program Utilization (June Participation)
- Youth Risk Behavioral Survey (YRBS)
- Weapons Related Injury Surveillance System (WRISS)

Data Set

Data Elements

Selectors

Data Set
Data Element
Selector Value

- Behavioral Risk Factor Surveillance System (BRFSS) Massachusetts State Totals
- Behavioral Risk Factor Surveillance System (BRFSS) Selected Cities
- Cancer Registry
- Child Care Services (OCCS)
- Communicable Disease Programs
- Demographic / Census Files
- Department of Education (DOE)
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- Early Intervention (EI) Program Utilization - Calendar Year
- Early Intervention (EI) Program Utilization - Fiscal Year
- Employment and Training (DET)
- Hospital Discharges (UHDDS)
- Lead Poisoning Prevention Program (CLPPP)
- Medicaid (MassHealth)
- Mortality (Vital Records) ICD 9 based
- Mortality (Vital Records) ICD 10 based
- Nativity (Vital Records)
 - Births (Vital Records)
 - Infant Deaths (Vital Records) ICD 9
 - Infant Deaths (Vital Records) ICD 10
 - Linked Births / Deaths (Vital Records)
- Physicians Registered and Working in Massachusetts
- Substance Abuse (BSAS) DPH Funded Program Utilization
- WIC Program Utilization (Dec. Participation)
- WIC Program Utilization (June Participation)
- Youth Risk Behavioral Survey (YRBS)
- Weapons Related Injury Surveillance System (WRISS)

Data Set

Data Elements

Selectors

Massachusetts Vital Records -- Births. This Data Set is maintained by the Registry of Vital Records and Statistics, Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health.



Report Definition

Results Grid

Results Chart

Results Map

Data Set
Data Element
Selector Value

- Data Set Groups
 - └ Natality (Vital Records) Data Elements
 - └ Births (Vital Records) Data Elements
 - └ Births Data Elements
 - └ **Total Births - Births**
- Health Topics
- National Health Objectives

- Data Set**
 - └ [Births \(Vital Records\)](#)

Data Elements

Selectors

Total births (NOTE: This is a count) For this data element, all calculations are based on a denominator population of females only.



Report Definition

Results Grid

Results Chart

Results Map

Data Set
Data Element
Selector Value

Selectors for Birth / Linked Birth-Death Data

- Residence of Mother
- Year of Birth
- Age of Mother (With Ages 11-24 Listed Individually)
- Age of Mother (5-Year Groups)
- Sex of Infant
- Ethnicity
- Race / Hispanic Ethnicity
- Hospital of Birth
- Education of Mother
- Birthweight in Grams
- Adequacy of Prenatal Care (Kessner Index)
- Adequacy of Prenatal Care (Kotelchuck Index)
- Trimester Prenatal Care Began
- Prenatal Care Payment Source
- Delivery Method
- Gestational Age
- Birthplace of Mother
- Mother Married?
- Parity
- Plurality
- Prenatal Care Site
- Prenatal Practitioner Type
- Delivery Payment Source
- Cigarette Smoking by Mother during Pregnancy
- Congenital Anomalies: Any
- Infant Transferred?
- Paternity
- Abnormal Condition of Newborn: Any
- Mother Breastfeeding at Discharge or Planning to
- Weight Gained by Mother

Data Set

-Births (Vital Records)

Data Elements

-Total Births - Births

Selectors

[Birth Selectors] Selectors control the grouping of information in your report. You must choose at least one Selector. For the Birth and Linked Birth/Infant Death data sets, extended sets of Birth Selectors are available.



Report Definition

Results Grid

Results Chart

Results Map

Data Set
Data Element
Selector Value

- Selectors for Birth / Linked Birth-Death Data
 - └ Residence of Mother
 - └ Cities / Towns
 - Abington
 - Acton
 - Acushnet
 - Adams
 - Agawam
 - Alford
 - Amesbury
 - Amherst
 - Andover
 - Arlington
 - Ashburnham
 - Ashby
 - Ashfield
 - Ashland
 - Athol
 - Attleboro
 - Auburn
 - Avon
 - Ayer
 - Barnstable
 - Barre
 - Becket
 - Bedford
 - Belchertown
 - Bellingham
 - Belmont
 - Berkley
 - Berlin
 - Bernardston
 - Beverly
 - Billerica
 - Blackstone

Data Set

- └ Births (Vital Records)

Data Elements

- └ Total Births - Births

Selectors



Data Set
Data Element
Selector Value

Selectors for Birth / Linked Birth-Death Data

└Year of Birth

- └1989
- └1990
- └1991
- └1992
- └1993
- └1994
- └1995
- └1996
- └1997
- └1998
- └1999
- └2000

Data Set

- └Births (Vital Records)

Data Elements

- └Total Births - Births

Selectors

- └Residence of Mother
 - └Individuals
 - └Amherst



Report Definition

Results Grid

Results Chart

Results Map

Data Set
Data Element
Selector Value

Selectors for Birth / Linked Birth-Death Data

- └ Birthweight in Grams
 - < 500 Grams
 - 500 - 999 Grams
 - 1000 - 1499 Grams
 - 1500 - 1999 Grams
 - 2000 - 2499 Grams
 - 2500 - 2999 Grams
 - 3000 - 3499 Grams
 - 3500 - 3999 Grams
 - 4000 - 4499 Grams
 - 4500 - 4999 Grams
 - 5000 + Grams
 - Unknown

Data Set

- └ Births (Vital Records)

Data Elements

- └ Total Births - Births

Selectors

- └ Residence of Mother
 - └ Individuals
 - └ Amherst
- └ Year of Birth
 - └ Individuals
 - └ 2000



Report Definition

Results Grid

Results Chart

Results Map

Data Set
Data Element
Selector Value

Selectors for Birth / Linked Birth-Death Data

- Birthweight in Grams
 - < 500 Grams
 - 500 - 999 Grams
 - 1000 - 1499 Grams
 - 1500 - 1999 Grams
 - 2000 - 2499 Grams
 - 2500 - 2999 Grams
 - 3000 - 3499 Grams
 - 3500 - 3999 Grams
 - 4000 - 4499 Grams
 - 4500 - 4999 Grams
 - 5000 + Grams
 - Unknown

Data Set

- Births (Vital Records)

Data Elements

- Total Births - Births

Selectors

- Residence of Mother
 - Individuals
 - Amherst
- Year of Birth
 - Individuals
 - 2000
- Birthweight in Grams
 - Individuals
 - < 500 Grams
 - 500 - 999 Grams
 - 1000 - 1499 Grams
 - 1500 - 1999 Grams
 - 2000 - 2499 Grams
 - 2500 - 2999 Grams
 - 3000 - 3499 Grams
 - 3500 - 3999 Grams
 - 4000 - 4499 Grams
 - 4500 - 4999 Grams
 - 5000 + Grams
 - Unknown

Analyze Results

Residence of Mother	Year of Birth	Birthweight in Grams	Total Births - Births: Count
Amherst	2000	500 - 999 Grams	NA
Amherst	2000	1500 - 1999 Grams	NA
Amherst	2000	2000 - 2499 Grams	7
Amherst	2000	2500 - 2999 Grams	21
Amherst	2000	3000 - 3499 Grams	59
Amherst	2000	3500 - 3999 Grams	55
Amherst	2000	4000 - 4499 Grams	13
Amherst	2000	4500 - 4999 Grams	NA
Amherst	2000	Unknown	NA

Example Results

- Poverty Rate in Amherst, MA in 1999 (2000 Census)
 $4,530 / 22,419 = 20.2\%$
- Single family building permits in Amherst, MA
1999=22, 2000=32, 2001=37
- Percent low-weight births in Amherst in 2000
 $7 / 155 = 4.5\%$