OnTheMap for Emergency Management



Earlene Dowell LEHD Program Center for Economic Studies U.S. Census Bureau



Overview

- LEHD vs LED
- Data Sources
- Need for Social and Economic Data during Emergencies
- Overview of Application
- Application Uses
- New Features
- Live Demo
- Questions and Answers



LED vs. LEHD

- LED: Local Employment Dynamics
 - Partnership between Census and States
 - Begun in late 1990s with a few states now 53 partner states/territories
 - States voluntarily submit quarterly data (UI Wage Records and QCEW reports)
- LEHD: Local Employer-Household Dynamics
 - Census processes and develops public use products
 - 3 data products
 - 4 web-based data tools



OnTheMap for Emergency Management



Disaster Decla	ratio	n: DR	4166 Time Wed, 1	1 Jun 2014 16:00:02 GMT	🖷 Export	∉ Share		× Close
Detail by: Characteristics opic: 2010 Decennia	*) I Cou *)		Hountains National Park	Spartanburg Rock Hill	arlotte	etteville Kinston New	Total Population - per sq. mi. (Tracts)	Total 🔨
nalysis rea: <u>Event Area</u> @			Dalton Chattahoochee National Forest	Greenville	BA	A Jacksonnie	7 - 44	
 Population by Age 			sme	Sumter National Forest		Wilmington	298 - 1,992	
Universe: Total Population Source: 2010 Census Source info >	2		Roswell		ugh strate	themas .	N Event Area	
Characteristic	Count	Share	Atlanta	Evans Aiken	olina	1	Basemap: Terrain	¥
Total	1,755,475	100.00%	A CAN S	Auguste	the al			
Under 18 years	416,870	23.75%	1277 1 S. M.	C. C. C. M. M. C.	S. Mary			
18 to 19 years	49,751	2.83%	Macon		Chiraston.			
20 to 24 years	116,069	6.61%	Georg		Charleston			
25 to 34 years	220,375	12.55%	rus of		Non Head			
35 to 49 years	353,573	20.14%	South	is a second s	land			
50 to 64 years	355,344	20.24%	freioogle	Savannah			Map data ©2014 (Boogle Terms of Us
65 years and over	243,493	13.87%						
Population by Race Population by Ethnicity Population by Sex Population by Housing Housing Units			400,000					
Universe: Housing Units Source: 2010 Census <u>Source info ></u>	>		200,000					
Characteristic	Count	Share						
otal	843,527	100.00%	100,000					
Total of 'Universe: Vacant housing	1	19.16%						

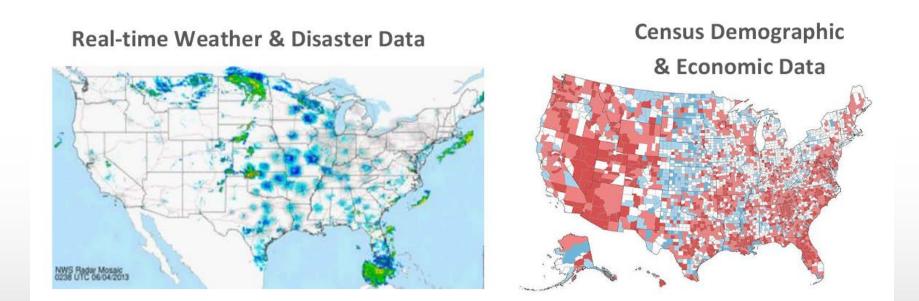
New Public Data Service for Emergency Preparedness & Response

- Comprehensive Reports
- Real-time Data Updates
- Easy-to-use & Interoperable
- Historical Event Archive
- Flexible Analyses & Visualizations



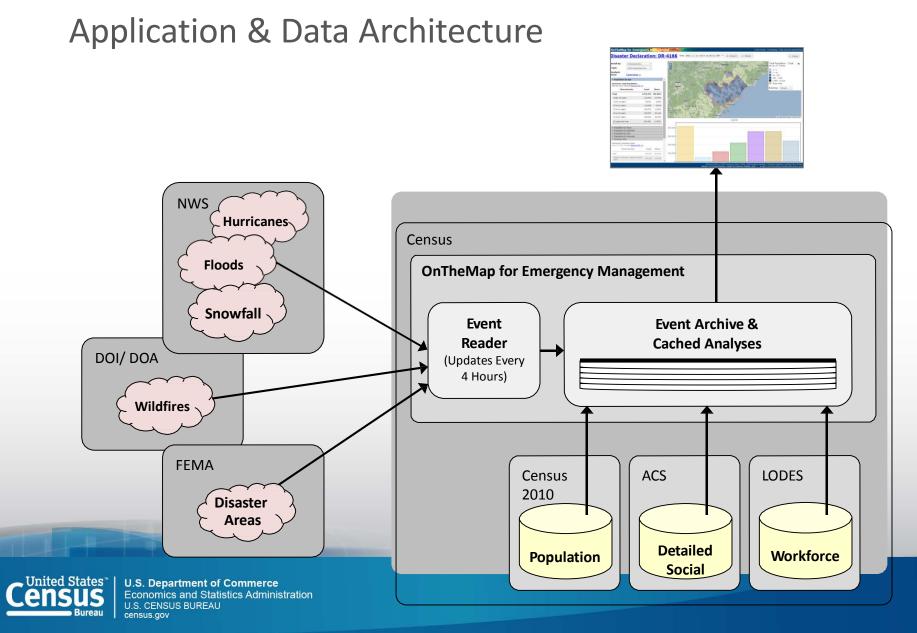


Data Integration





OnTheMap for Emergency Management –



Need for Social and Economic Data during Emergencies

Assessing Workforce Impacts

>Identify the number and location of affected workers

Examine workforce demographics

➢Identify affected Industries

Visualize where affected workers live

Assessing Population & Housing Impacts

Identify the number and location of affected residents

Examine population demographics of affected areas

➢Identify vulnerable population groups

Examine housing characteristics of affected areas
Emergency Preparedness & Response Planning

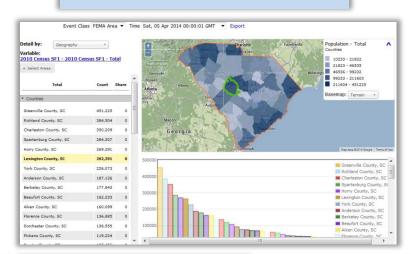
➤Where should response efforts concentrate?

- Uncover surrounding communities with secondary affects to workforce
- > Are there special or vulnerable population segments?



Version 4 Improvements

- Addition of detailed social, economic, and housing data from the American Community Survey (ACS)
- New community level reporting
- New tools for local, regional, and comparative analyses
- Improved dashboard interface with new interactive reports, charts, and maps
- Improved event search tool
- New linkable maps and reports for easier sharing



New Dashboard Interface

 Household Type Race Hispanic or Latino Origin English Comprehension by Age 		er Reporting lexibility	
English Comprehension by Primary Language	Geography Selection		-
Diability by Poverty Status			
Disability by Age	Geography Type:	Counties	*
Income to Poverty Ratio	Search:	Event Area	
Poverty Status for the Past 12 Months	Select All Select None	States	
Elderly Living Alone		Counties	
Households with Elderly	TTT N	Places (Cities, CDPs, etc.)	_
Households with Earnings in the Past 12 Mon		C Affected Population: 384504	1
Households with Social Security in the Past		, SC Affected Population: 350209	1
 Households with Supplemental Security(SSI) Months 		ty, SC Affected Population: 284307	
 Households with Public Assistance in the Pas 		Affected Population: 269291	
 Households with Retirement Income in the Pase 	Lexington County,	SC Affected Population: 262391	
 Households with Food Stamps/SNAP in the P 	TORK County, SC A	ffected Population: 226073	
Tenure	Anderson County,	SC Affected Population: 187126	
Year Structure Built	[max]	SC Affected Population: 177843	
 Aggregate Value of Owner Occupied Housing 	[TTT]	SC Affected Population: 162233	
 Aggregate value of owner occupied Housing House Heating Fuel 	Aiken County, SC	Affected Population: 160099	
- House Heading Fuel	Florence County, S	C Affected Population: 136885	



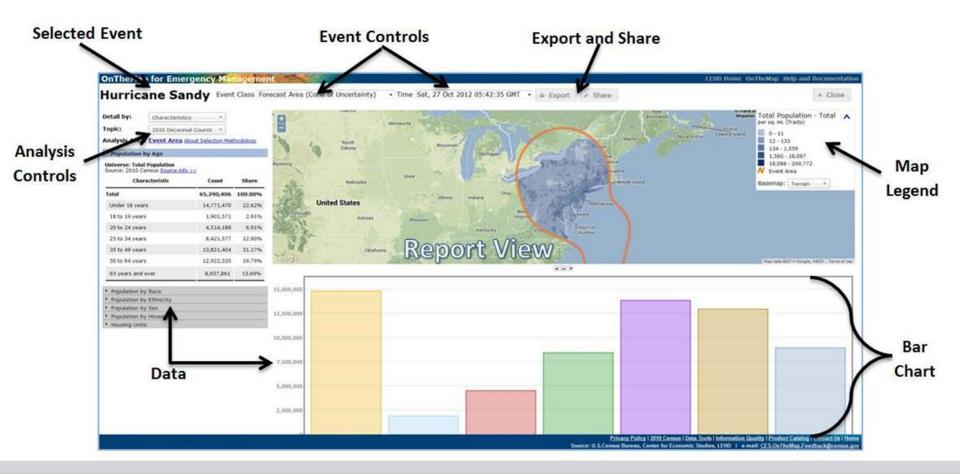


Application Interface



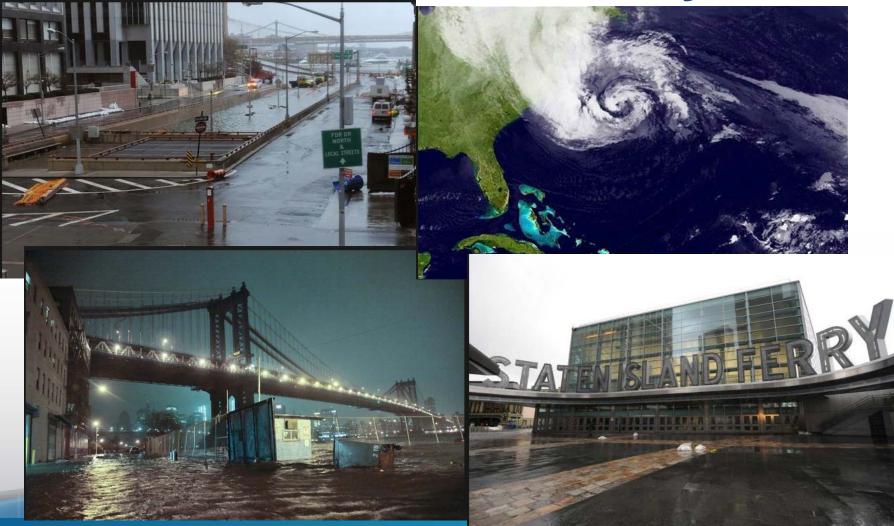
Census Bureau

Application Interface



Census Bureau

Hurricane Sandy





Physical Vulnerabilities

Construction

- Housing Units
 - Vacant and Occupied
 - Year Structure was Built
 - Value of Owner Occupied Housing
 - House Heating Fuel
 - Mobile Homes



Economic Vulnerability

- Total workers in the Area
- Industry Sectors
- Earnings
- Age
- Education



Social Vulnerability

- Poverty
- Minority
- Disability
- Elderly
- Gender
- Low Educational and Technical Skills (LODES Data)

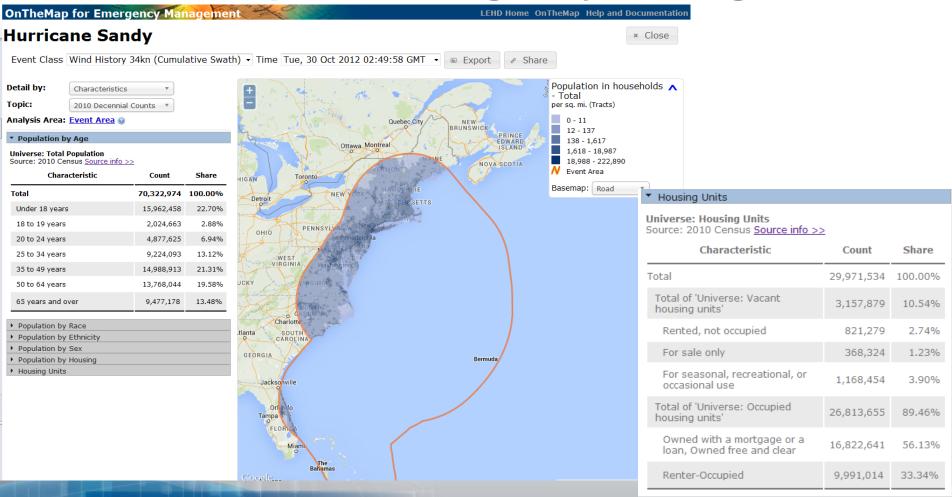


http://onthemap.ces.census.gov/ em/

Search:	Filter * U.S. Census Bureau data for disasters, natural hazards, and	I weather events.
Events as of 09/17/2015 🔳		* 1 min *
Iurricanes Tropical Depression Nine No data		adson Bay
Affected Population: 0		
/ildfires Valley Fire Lake County, CA, Sonoma County, CA, Napa County, CA	Canada Alberta MANTOBA	
Affected Population: 4,603	BRITISH COLUMBIA SASKATCHEWAN	NEWFOUNDLAND
Butte Fire Calaveras County, CA, Amador County, CA Affected Population: 2,712		
Chelan Complex Fire Okanogan County, WA, Douglas County, WA, Chelan County, WA		ANIO OUEBEC
Affected Population: 1,408	ADRIGITA MONTANA DAKOTA	M NB
County Line 2 Complex Fire Jefferson County, OR, Wasco County, OR	MINNESOTA SOLTH WISCONSIN	Ottawa PE WAINE NOVA SCOTIA
Affected Population: 1,146	OFEC AND	MICHIGAN OF ONE
North Star Fire Okanogan County, WA, Ferry County, WA	LINING LEBRASKA INVA CHICA	CAR .
Affected Population: 1,144		DIANA MD O New York
Okanogan Complex Fire North Omak CDP, WA, Disautel CDP, WA	San Fandroo	
Affected Population: 722	CALIF VIA volas Vegas DEVAROMA	NORTH CAROLINA
Sockeye Fire Zip 99688	Los Angeles ABIZONA NEV MEXICO ABISISSIPP	
Affected Population: 292	San Diego	GEORGI
Canyon Creek Complex Fire Zip 97820, 97869, 97845	PISTANA Possion	
Affected Population: 228		FLORIDA
Nulato Fire Zip 99765	Gulf of Mexico	🔹 🕴 🔬 🖉
Affected Population: 222		Cuba
Card Street Fire Zip 99672	Mexico City	Dominican Republic Puerto fuico
Affected Population: 138	The second se	
Carpenter Road Fire 99129, 99173, 99137 and 1 other ZIP Codes (ZCTA) Affected Population: 134		luras Caribbean Sea
First Creek Fire Zip 98816		Costa Rica
Affected Population: 85		Panama
Rock Fire Zip 99745		Bogota Gyyana G
Affected Population: 66	Canala	STATE OF STATE OF
Tepee Springs Fire	Google	Map data @2015 Google, INEGI / Terms of Us

Census Bureau

Hurricane Sandy and OnTheMap for Emergency Management





Hurricane Sandy in Connecticut

OnTheMap for Emergency Management

LEHD Home OnTheMap Help and Documentation

Hurricane Sandy Event Class Wind History 34kn (Cumulative Swath) - Time Tue, 30 Oct 2012 02:49:58 GMT Export & Share

Detail by: Topic:	Characteristics
Analysis	Connecticut ()
Area:	(or Part of Event Area)

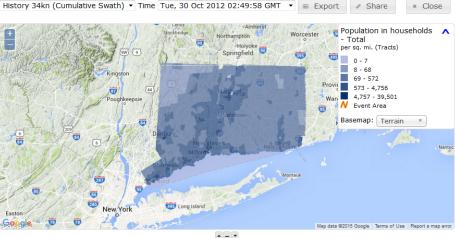
Household Type

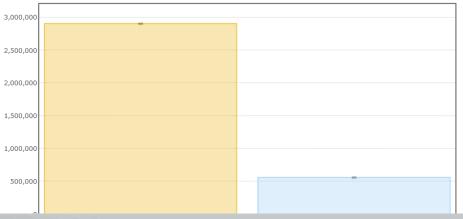
Universe: Population in households Source: American Community Survey, 2009-2013. Source info >>

c	Characteristic	Estimate	Margin of Error
Total		3,464,102	(
In family h	ouseholds	2,903,856	6,036
In nonfami	ly households	560,246	6,036

Race

Hispanic or Latino Origin Ability to Speak English by Age Ability to Speak English by Language Spoken at Home Disability Status by Poverty Status Disability Status by Age • Ratio of Income to Poverty Level in the Past 12 Months Poverty Status in the Past 12 Months Population 65 Years and Over Living Alone Households With One or More People 65 Years and Over • Earnings in the Past 12 Months for Households Social Security Income in the Past 12 Months for Households Supplemental Security Income (SSI) in the Past 12 Months for Households Public Assistance Income in the Past 12 Months for Households • Retirement Income in the Past 12 Months for Households Households Receiving Food Stamps/SNAP in the Past 12 Months Year Structure Built Aggregate Value of Owner Occupied Housing House Heating Fuel Mobile Homes Vehicles Available



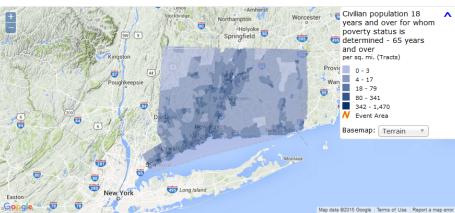


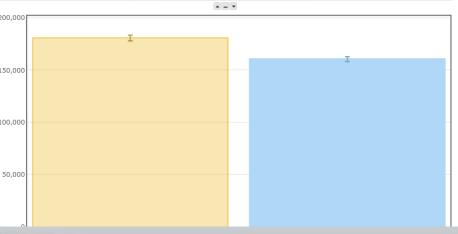


Social Vulnerabilities Disability by Age

Hurricane Sandy Event Class Wind History 34kn (Cumulative Swath) • Time Tue, 30 Oct 2012 02:49:58 GMT • 🗈 Export 🔹 Share 🔹 Close

Detail by: Topic:	Characteristics 2009-2013 ACS	Characteristics * 2009-2013 ACS Char * Connecticut @ (or Part of Event Area)						
Analysis Area:								
 Ability to S Home 	peak English by Lan	guage Spoke	en at					
Universe: Ci whom pover	itatus by Poverty Sta vilian population 18 ty status is determi ican Community Surve	years and oned						
info >>	aracteristic	Estimate	Margin of Error					
Total		2,673,508	542					
With a disab	ility	341,537	3,571	21				
Income in below pove	the past 12 months erty level	59,133	1,651	Easto				
Income in at or above	the past 12 months e poverty level	282,404	3,166	200.00				
 Disability 	Status by Age			200,0				
whom pover	vilian population 18 ty status is determi ican Community Surve	ned		≡				
Cha	aracteristic	Estimate	Margin of Error	150,00				
Total		2,673,508	542					
With a disab	ility	341,537	3,571	100,00				
18 to 64 ye	ears	180,849	2,748					
65 years	and over	160,688	2,281					
Ratio of Inc.	come to Poverty Lev	el in the Pas	t 12	50,00				
Months Poverty State 	atus in the Past 12 N			-				
Months Poverty State Population Household Over 	atus in the Past 12 M 65 Years and Over I s With One or More I n the Past 12 Months	Living Alone People 65 Ye						







Physical Vulnerabilities Year Structure Was Built

OnTheMap for Emergency Management

LEHD Home OnTheMap Help and Documentatio

Hurricane Sandy Event Class Wind History 34kn (Cumulative Swath) • Time Tue, 30 Oct 2012 02:49:58 GMT • 🖻 Export 🖌 Share * Close

Detail by:	Characteristics		+	Stock	choox Amherst kbridge Northampton	Worcester Civilian population 18 years and over for whom
opic:	2009-2013 ACS Char	1	E WARD		Holyoke	poverty status is
	Connecticut @ (or Part of Event Area)	-	Alexander and	Kingston	Springfield	determined - 65 years and over per sq. mi. (Tracts)
	IS IN THE PAST 12 MONTHS		· Contestaste		and the set of the set	Provis 0 - 3
	5 Years and Over Living Ale		- Southern State	Poughkeepsie		Wan 4 - 17
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• Earnings in th	ne Past 12 Months for Hou	seholds	A A A A A A A A A A A A A A A A A A A	0	Mar is the state	342 - 1,470
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 Supplemental donths for House 	l Security Income (SSI) in t eholds	he Past 12		O POPO	Millord The Millord	Basemap: Terrain •
 Public Assistant Households 	nce Income in the Past 12	Months for	En alle	Norwa	No and A	Montauk
 Retirement In Households 	icome in <mark>t</mark> he Past 12 Mont	ns for		Seniford 5		
 Households R 2 Months 	teceiving Food Stamps/SN	P in the Past			Long Island	
 Year Structure 			Easton	New York	Congristand	Man data 20015 County Trans of User Devents areas
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Aggregate Value of Owner Occupied Housing

House Heating Fuel Mobile Homes

United States"

Economic Vulnerabilities Employed in the Event Area

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pic:	Workforce: Emplo	ye *		E	Holyoke
	connecticut	ea)		all the second	will Image: Springfield Image: Springfield 0 - 6 7 - 53 54 - 394
otai		1,511,198	100.00%	· State	Provit 395 - 2,894
Agriculture, Fores Hunting	stry, Fishing and	4,236	0.28%	1	Poughkeepsie 2,895 - 21,234
Mining Quarrying, Gas Extraction	, and Oil and	524	0.03%	-	Basemap: Terrain
Jtilities		7,851	0.52%		Denbary, Uers gaven,
Construction		50,992	3.37%	A. S.	New Londing
1anufacturing		166,086	10.99%	P	A CONTRACT OF A
Vholesale Trade		63,168	4.18%	- 22	Stamford
tetail Trade		165,747	10.97%	ST.	
ransportation an	nd Warehousing	39,634	2.62%		Wew York To Long Island
nformation		34,784	2.30%	Easton	
inance and Ins	surance	113,078	7.48%	OBCHICECH	Map data @2015 Google Terms of Use Report a map 4
	Rental and	18,209	1.20%	250,000	
leasing Professional, Scie	entific, and	18,209 88,487	1.20% 5.86%	250,000	
easing Professional, Scie Technical Service Management of C	entific, and as			250,000	
Leasing Professional, Scie Fechnical Service Management of C Enterprises Administration & S	entific, and as Companies and Support, Waste	88,487	5.86%		
easing Professional, Scie echnical Service Management of C interprises Idministration & S Management and	entific, and es Companies and Support, Waste I Remediation	88,487 31,939	5.86% 2.11%	200,000	
Leasing Professional, Scie Fechnical Service Management of C Enterprises Administration & S Management and Educational Servi	entific, and es Companies and Support, Waste I Remediation ices	88,487 31,939 73,187	5.86% 2.11% 4.84%		
Leasing Professional, Scie Technical Service Management of C Enterprises Administration & S Management and Educational Servi Health Car and Sc Arts, Entertainme	entific, and as Companies and Support, Waste Remediation ices iocial Assistance	88,487 31,939 73,187 169,564	5.86% 2.11% 4.84% 11.22%	200,000	
easing Professional, Scie Fechnical Service Anagement of C Enterprises Administration & 1 Anagement and Educational Servi- tealth Car and St Arts, Entertainme Kercreation Accommodation a	antific, and Companies and Support, Waste Remediation ices icocial Assistance ent, and	88,487 31,939 73,187 169,564 240,790	5.86% 2.11% 4.84% 11.22% 15.93%	200,000	
Leasing Professional, Scie Technical Service Management of C Enterprises Administration & Management and Educational Servic Health Car and Sci Arts, Entertainme Recreation Accommodation a Services Other Services (et	entific, and ss Companies and Support, Waste Remediation ices ices icocial Assistance ent, and and Food	88,487 31,939 73,187 169,564 240,790 36,689	5.86% 2.11% 4.84% 11.22% 15.93% 2.43%	200,000 ≡ 150,000	
Real Estate and R Leasing Professional, Scie Technical Service Management of C Enterprises Administration & S Management and Educational Servi: Health Car and Sci Arts, Entertainme Recreation Accommodation a Services Other Services (e Administration) Public Administrati	entific, and estimation of the second	88,487 31,939 73,187 169,564 240,790 36,689 99,511	5.86% 2.11% 4.84% 11.22% 15.93% 2.43% 6.58%	200,000 ≡ 150,000	



Hurricane Sandy in Massachusetts

Hurricane Sandy Exton	OnTheMap for Emerg	ency Managem	ent 🔫 😪	39			LEHD Home	OnTheMap Help and [Oocumentatio
Coop-2013 ACS Char. Ope-2013 ACS Char. Analysis Massachusetts (or Pert of Event Area) Press.mic (Tradis) • Household Type Mathysis Inverses: Rogitable in Insuesholds Source: Amenon Community Survey, 2009-2013. Source into 2 Characteristic Estimate Tradi Fase Hispario Cratano Origin Hispario Cratano Origin New York Ability to Speak English by Age Ability to Speak English by Age Ability to Speak English by Age Ability to Speak English by Age • Households 1,138,707 • Powerty Status by Age Source: Annotan Community Survey, Status • Disability Status by Age Source: Annotan Common in the Past 12 Months for Households • Powerty Status of Dooren in the Past 12 Months for Households Stotement • Suppendental Security Income in the Past 12 Months for Households Stotement • Ability to Speak English by Loome in the Past 12 Months for Households Stotement • Powerty Status el Otor Row Power Status Stotement • Storenent Inter Past 12 Months for Households Stotement • Powerty Status el Norths for Households Stotement • Powerty Status el Otorene in the Past 12 Months for Households <th>Hurricane San</th> <th>dy Event Class W</th> <th>ind History 34kn (</th> <th>Cumulative Swath</th> <th>) 🔻 Time Tue, 30</th> <th>Oct 2012 02:49:58 (</th> <th>GMT 🔹 🖻 Expo</th> <th>ert 🖉 Share</th> <th>* Close</th>	Hurricane San	dy Event Class W	ind History 34kn (Cumulative Swath) 🔻 Time Tue, 30	Oct 2012 02:49:58 (GMT 🔹 🖻 Expo	ert 🖉 Share	* Close
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 Household Type Universe: Population in households Source: American Community Survey, 2009-2013. Source info Characteristic Estimate Estimate Estimate Error Total 6,359,763 0 In nonfamily households 5,161,056 8,665 In nonfamily households 1,198,707 8,665 Nace Hispanic or Latino Origin Ability to Speak English by Age Ability to Speak English by Age Disability Status by Age Status by Poverty Status Disability Status by Age Social Security Income it Past 12 Months for Social Security Income (SSI) in the Past 12 Months for Households Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Security Income in the Past 12 Months for Supplemental Secu	Area: <u>Massachusetts</u>		- 0 /	THE P	Springs Green	HAMPSHIRE		10 - 94	
Universe: Population in households Source: American Community Survey, 2009-2013. Source into 22. Characteristic Estimate Error Total 6,359,763 0 In family households 5,161,056 8,605 In nonfamily households 1,199,707 6,605 Hispanic rutation Origin Ability to Speak English by Lag Hability Status by Age Hability Sta	 Household Type 		NEW YUR		Albany				
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Aggregate Value of Owner Occupied Housing House Heating Fuel	Households Receiving Food St	amps/SNAP in the Past	2,000,000						
House Heating Fuel	Year Structure Built								
House Heating Fuel	Aggregate Value of Owner Occ	cupied Housing	1 000 000					-	
Mobile Homes	House Heating Fuel		1,000,000						
Vehicles Available	Vehicles Available								



Hurricane Sandy in Boston 2010 Decennial Counts

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lurrica	ne Sandy	Y Eve	nt Class 🕚	Vind History	34kn (Cumulat	ive Swath) 🖣	Time Tue, 30 O	t 2012 02:49:58 G	MT 🔹 Expo	ert e Share	× C
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opic:	2010 Decennial Co	u 🔻		- arvar			Burlington	1		per sq. mi. (Tracts)	i dione
nalysis Irea:	Boston city, MA () (or Part of Event Area			H W	4.2	Concord	exington	Lynn		0 - 6 7 - 55 56 - 418	
Population b	y Age			· Hud	son		Somervill	44		419 - 3,133	
Universe: Tota Source: 2010 Co	II Population ensus <u>Source info >></u>			erlin	porough) w	altham	Winthrop		3,134 - 23,448 V Event Area	
Cha	racteristic	Count	Share	49			Newton Brookline	512		Basemap: Terrai	in •
Total		55,298	100.00%			9	128	1-1			
Under 18 year	S	11,465	20.73%	estborough	Framingh Ashland	iam	128	On Quincy			
18 to 19 years		1,645	2.97%		10 - A (A)	13.11	Dedhar Milt	3A Hingham	Cohasset		
20 to 24 years		3,841	6.95%	130		and the	Norwood	Braintree 228	3A Scituate		
25 to 34 years		7,428	13.43%				NCH X SAST		Norwell		
35 to 49 years		10,729	19.40%	= 23 C 23	Milford	A PL	Canton	Rockland	3		
50 to 64 years		11,352	20.53%	Googl	edon 1 495	A X	Stoughton	Si III	Low Conge	ata ©2015 Google Terms of U	se Report a
65 years and o	over	8,838	15.98%								
 Population b 	y Race			50,000							
Universe: Tota Source: 2010 Co	I Population ensus <u>Source info >></u>										
Cha	racteristic	Count	Share								
Fotal		55,298	100.00%	40,000							
One race		54,045	97.73%								
White		47,999	86.80%	30,000							
Black or Af	rican American	2,053	3.71%	30,000							
Asian		737	1.33%								
American Ind	dian and Alaska Native	204	0.37%	20,000							
Native Hawai Islander	ian and Other Pacific	36	0.07%	20,000							
Some Other	Race	3,016	5.45%								
Two or More R	aces	1.253	2.27%	10,000							

United States

U.S. Department of Commerce Economics and Statistics Administration **U.S. CENSUS BUREAU** census.gov

Population by Ethnicity Population by Sex

Thank You

- Local Employment Dynamics
 - Iehd.ces.census.gov
- Contact
 - Earlene.KP.Dowell@census.gov
- Tools
 - QWIExplorer.ces.census.gov
 - LEDExtract.ces.census.gov
 - OnTheMap.ces.census.gov
 - OnTheMap.ces.census.gov/em.html

