REGIONAL ECONOMIC DATA SOURCES



Pramod Sambidi PhD and Dmitry Messen PhD

Houston-Galveston Area Council

http://www.h-gac.com/forecast

Overview

- Jobs and Workers
 - Place of Work
 - Place of Residence
- Self Employment
- Occupational Employment
- Employment by Firm Size
- Special Employment Tabulations
- Summary

Local Area Unemployment Statistics (LAUS)

Bureau of Labor Statistics

- Source: Current Population Survey (CPS), Current Employment Statistics, State Unemployment Insurance (UI) Systems
- Geographic Unit: County, City (25,000 population or more)
- Data Items: Labor Force, Employment, Unemployment
- Frequency: Monthly
- Lag: 2 months

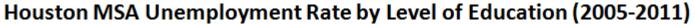
http://www.bls.gov/lau/

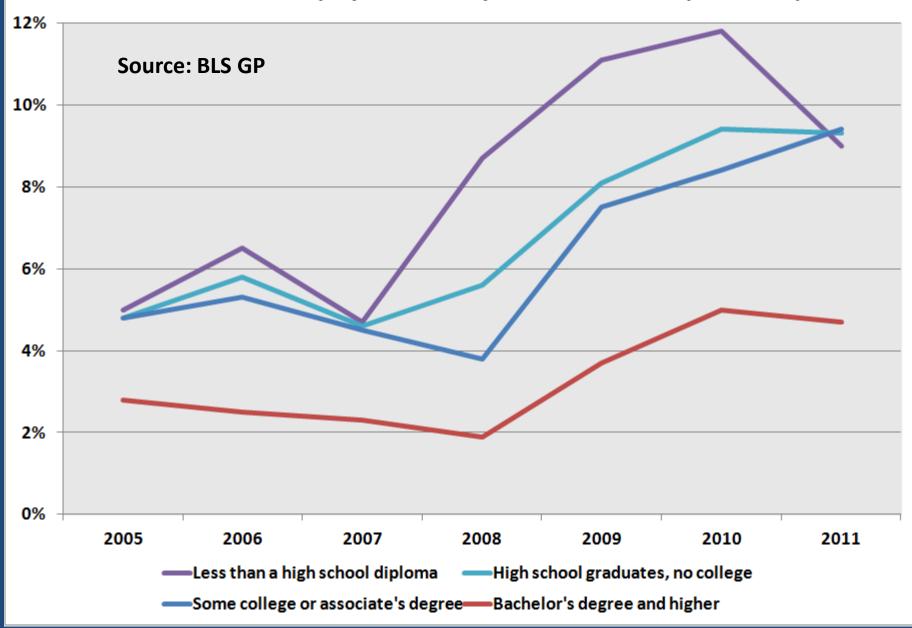
Geographic Profile (GP) of Employment and Unemployment

Bureau of Labor Statistics

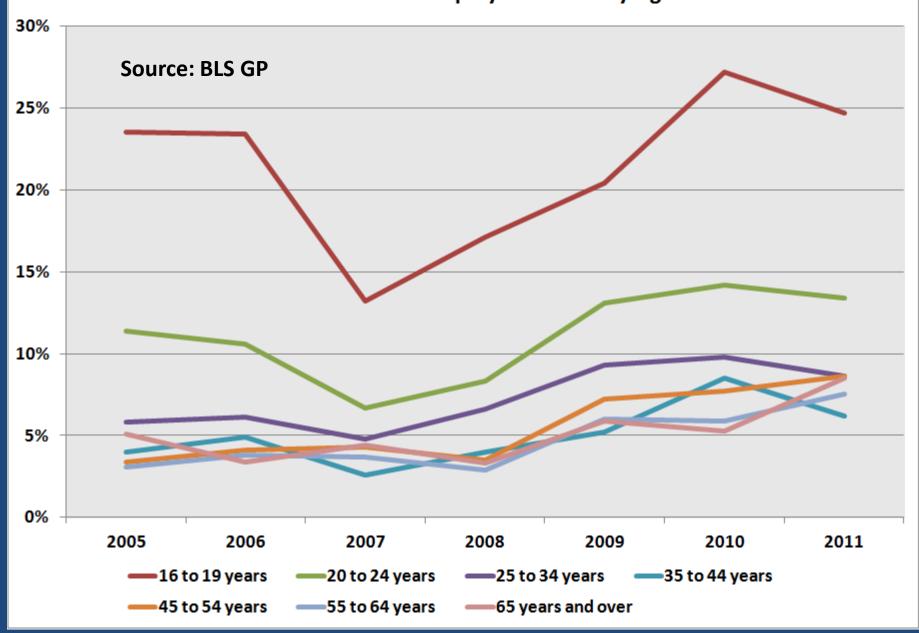
- Source: CPS
- Geographic Unit: 54 large MSA and 41 Principal City
- Data Items: Labor Force, Unemployment, Employment
- Segmentation: Industry, occupation, education, race, age, gender
- Frequency: Annual
- Lag: 1 year

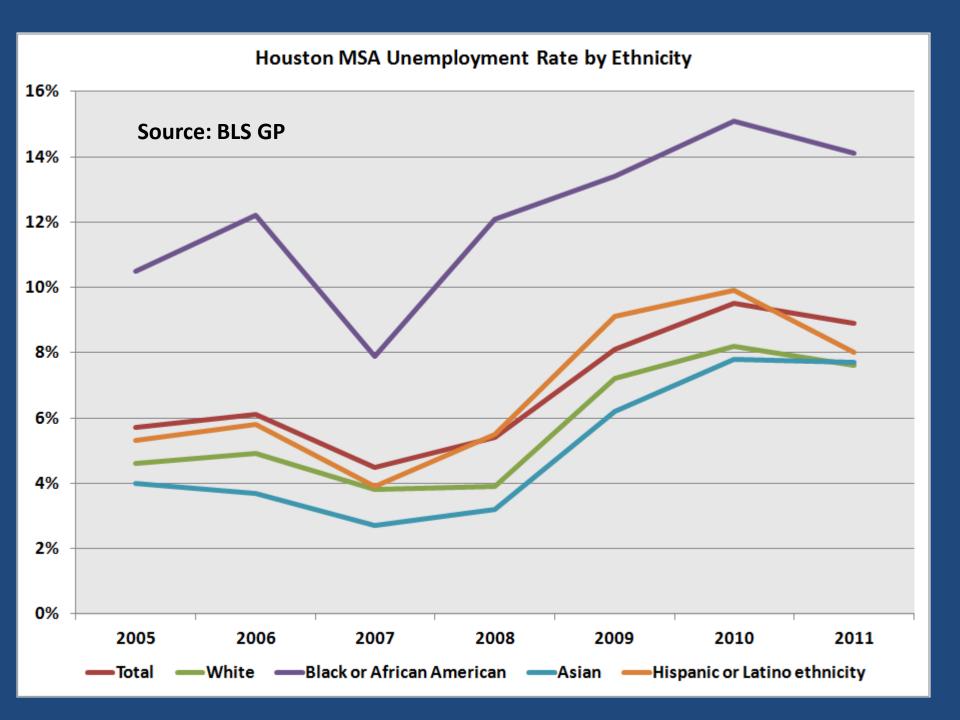
http://www.bls.gov/gps/





Houston MSA Unemployment Rate by Age





Local Area Personal Income and Employment Bureau of Economic Analysis

- Source: Primary: ES-202 (QCEW); additional: IRS, Dept of Defense, Dept of Agriculture, Railroad Retirement Board
- Geographic Unit: County
- Data Items:
 - Earnings and employment by industry
 - Self employment
 - Components of personal income
 - Personal current transfer receipts
 - Farm gross income and expenses by major category
 - Inflows and outflows of commuters' earnings
- Frequency: Annual
- Lag: 11 months

http://www.bea.gov/regional/index.htm

Quarterly Census of Employment and Wages (QCEW)

Bureau of Labor Statistics

- Source: Unemployment Insurance (UI) system and Unemployment Compensation for Federal Employees (UCFE) program
- Geographic Unit: County
- Data item:
 - Monthly Employment
 - Quarterly Wages
 - Quarterly Establishment counts
- Segmentation: 6 Digit NAICS industry code.
- Frequency: Quarterly
- Lag: 2 quarters

http://www.bls.gov/cew/

County Business Patterns (CBP) and ZIP Code Business Patterns (ZBP) US Census

- Source: Business Register, Economic Census, Company Organization Survey
- Geographic Unit: County and ZIP code
- Data Items:
 - Employment
 - Number of Establishments
 - First Quarter Payroll
 - Annual Payroll
- Segmentation: 6-Digit NAICS
- Frequency: Annual
- Lag: 15 months

http://www.census.gov/econ/cbp/

American Community Survey (ACS) US Census

- Source: ACS
- Geographic Unit:
 - Place of Work: county, city
 - Place of Residence: block group and higher
- Data Items:
 - Employment (POW and POR), Unemployment (POR)
- Segmentation: varies
- Frequency: 1-, 3-, and 5-year estimates
- Lag: varies

http://www.census.gov/acs/www/

Longitudinal Employer Household Dynamics Quarterly Workforce Indicator (LEHD QWI)

US Census

- Source: UI, ES-202(Covered Employment Wages), Person Characteristics File (PCF), Composite Person Record (CPR), Survey Of Income and Program Participation (SIPP), Economic Census
- Geographic Unit: County
- Data items:
 - Quarterly employment, payroll, establishments
 - Hires (all, new, re-), separations
 - Job gains, job losses, turnover
- Segmentation: 4-digit NAICS, age, gender, education, race, ethnicity, firm age, firm size
- Frequency: Quarterly
- Lag: 1 Year

http://lehd.did.census.gov/data/

http://ledextract.ces.census.gov/static/data.html

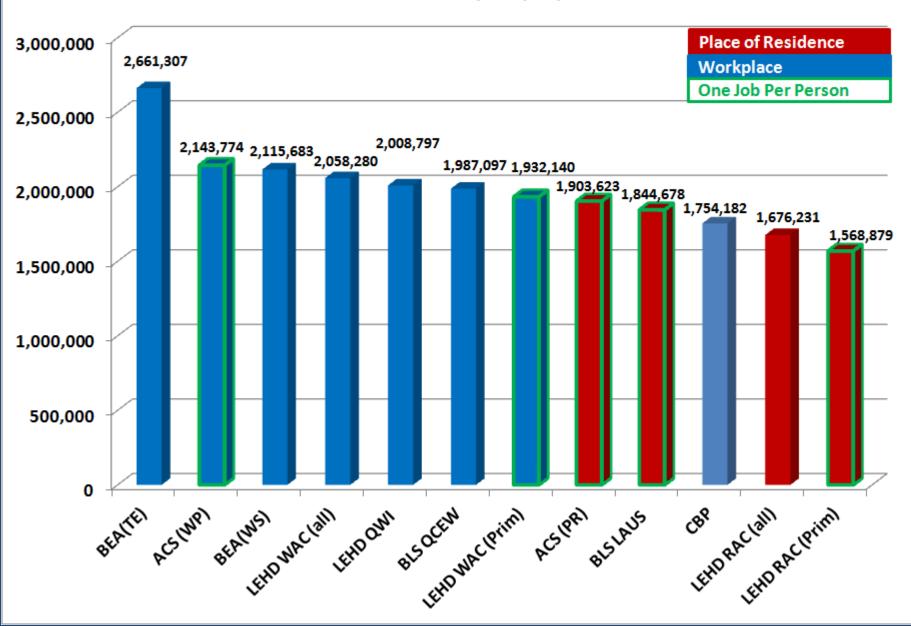
LEHD Origin-Destination Employment Statistics (LODES)

US Census Bureau

- Also referred to as "On The Map" (OTM)
- Work Area Characteristics (WAC) and Residence Area Characteristics (RAC)
 - Geographic Unit: Block
 - Data Item: Jobs (All, Primary, Private)
 - Segmentation: 2-digit NAICS industry, age group, earnings group, education, race, and ethnicity
 - Frequency: Annual
 - Lag: 2-3 years
- Origin-Destination Data (OD)
 - Links "home" (census block) to "work" (census block)
 - Segmentation: industry (3), age (3), wage level (3)

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

2010 Harris County Employment



Source	Employment Coverage
BEA	All employees, except unpaid family workers and volunteers.
	Employees covered by Unemployment Insurance.
	Does not include: Self-employed, railroad workers, student
	workers, elected officials, religious organizations, and family
BLS QCEW	farm workers.
	Similar to QCEW, but QWI count all jobs within a quarter (rather
LEHD QWI	than just the 12th of the month).
СВР	Similar to OCEW but evaludes government employees
CDP	Similar to QCEW, but excludes government employees.
	All civilians 16 years old and over who were either "at work" or
	were "with a job but not at work".
	Does not include: unpaid volunteer workers, persons on active
	duty in the US Armed Forces, and persons whose only activity
ACS	consisted of work around the house.

Helpful Links to Employment Differences:

http://www.bea.gov/regional/pdf/lapi2004/alternative measures.pdf

http://www.census.gov/hhes/www/laborfor/laborguidance092209.html

http://webapp1.dlib.indiana.edu/cgi-

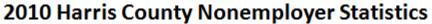
bin/virtcdlib/index.cgi/4291881/FID2/acs html/html/meth doc/datadef/employme.htm

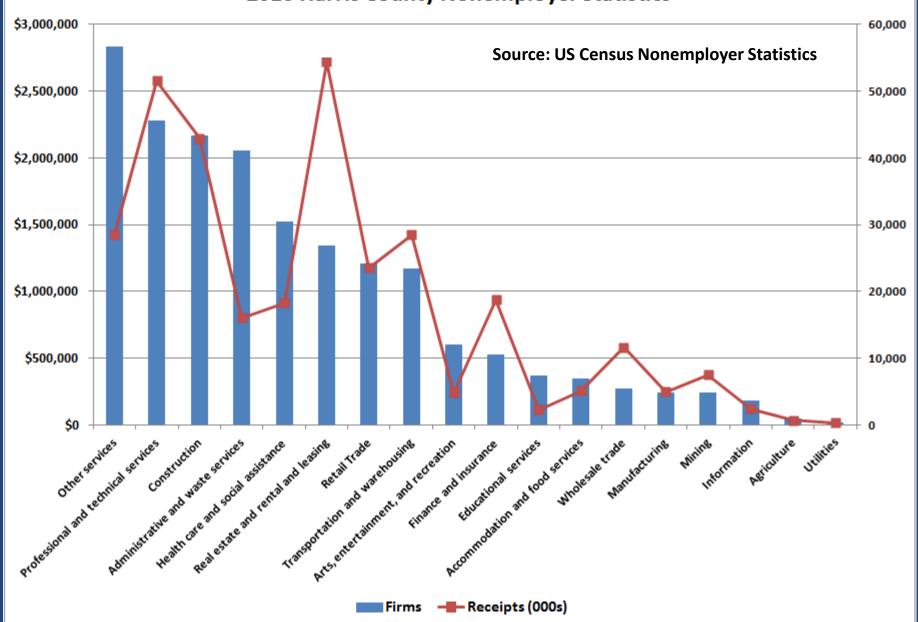
http://www.bls.gov/lau/acsqa.htm#Q07

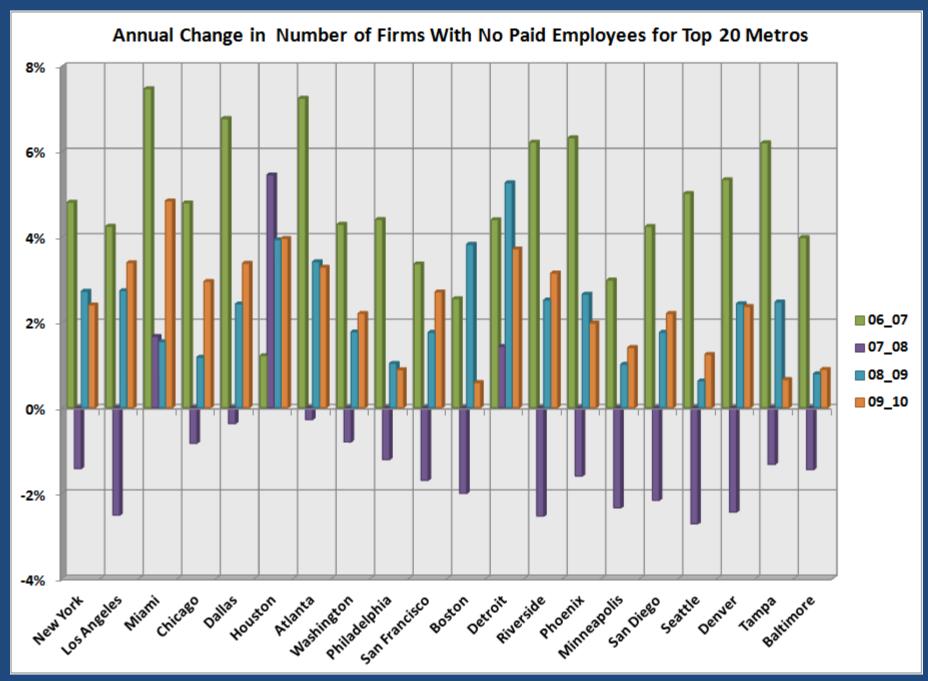
Self Employment

- Bureau of Economic Analysis
 - Source: Primarily IRS
 - Geographic Unit: County
 - Data Item: Farm and Nonfarm Proprietors Employment and Income
 - Frequency: Annual
 - Lag: 11 Months
- US Census Bureau Nonemployer Statistics
 - Source: IRS
 - Geographic Unit: County
 - Data Item: Number of Businesses (Sole proprietorship, Partnership, Corporation) with no paid employees, Total Receipts by Industry
 - Frequency: Annual
 - Lag: 18 Months

http://www.census.gov/econ/nonemployer/index.html







Occupational Employment

Texas Workforce Commission

- Source: TWC Employment Projections, BLS
- Geographic Unit: Workforce Development Areas
- Data items:
 - Employment projections by Industry and Occupation
 - Staffing Patterns
- Frequency: Every two years for a ten-year time period.

http://www.tracer2.com/?PAGEID=67&SUBID=114

Standard Occupational Classification System (SOCS)

- 22 Major Occupational Categories
 - 95 Minor Occupational Categories
 - 757 Individual Occupations

Link: http://www.bls.gov/soc/

<u>15-0000</u>	Computer & Mathematical Occupations
15-1000	Computer Specialists
15-1111	Computer and Information Research Scientists
15-1121	Computer Systems Analysts
15-1131	Computer Programmers
15-1132	Software Developers, Applications
15-1133	Software Developers, Systems Software
15-1141	Database Administrators
15-1142	Network and Computer Systems Administrators
15-1150	Computer Support Specialists
15-1179	Information Security Analysts, Web Developers, and Computer Network Architects
15-1799	Computer Occupations, All Other
15-2000	Mathematical Science Occupations
15-2011	Actuaries
15-2021	Mathematicians
15-2031	Operations Research Analysts
15-2041	Statisticians

North American Industry Classification System (NAICS)

- 20 Two-Digit NAICS
 - 100 Three-digit NAICS
 - 317 Four-Digit NAICS
 - 723 Five-Digit NAICS
 - » 1196 Six-Digit NAICS

Link: http://www.census.gov/eos/www/naics/

NAICS 81 Other services, except public administration

NAICS 812 Personal and laundry services

NAICS 8121 Personal care services

NAICS 81211 Hair, nail, and skin care services

NAICS 812111 Barber shops

NAICS 812112 Beauty salons

NAICS 812113 Nail salons

Top 20 Occupations for NAICS 622110 (General Medical & Surgical Hospitals, Public & Private)

Occupation	Employment	Wage
Registered Nurses	22,750	\$73,894
Nursing Aides, Orderlies, and Attendants	4,900	\$23,721
Medical Secretaries	3,090	\$31,275
Licensed Practical and Licensed Vocational Nurses	2,940	\$45,326
Radiologic Technologists and Technicians	2,030	\$55,259
Medical Assistants	1,760	\$29,933
Respiratory Therapists	1,740	\$55,620
Medical and Clinical Laboratory Technologists	1,580	\$56,244
Office Clrks, General	1,560	\$30,202
Medical and Health Services Managers	1,480	\$100,176
Surgical Technologists	1,410	\$45,275
Medical Records and Health Information Technicians	1,370	\$39,174
Janitors and Cleaners, Ex. Maids and Housekeeping Cleaners	1,310	\$20,999
Interviewers, Ex. Eligibility and Loan	1,290	\$32,052
Maids and Housekeeping Cleaners	1,070	\$18,154
Pharmacy Technicians	1,060	\$31,166
Medical and Clinical Laboratory Technicians	1,030	\$34,787
Pharmacists	900	\$109,239
Billing and Posting Clrks	800	\$35,166
Healthcare Support Wkrs, All Other	640	\$29,997

Source: TWC

Top Ten Occupations Adding Jobs

						Mean Wage
Occupation	Emp_2010	Emp_2020	Growth	Percent	Education	2010
Elementary School Teachers, Except						
Special Education	39,540	60,120	20,580	52%	Bachelor's degree	\$53,030
Combined Food Preparation and						
Serving Workers, Including Fast Food	55,950	75,620	19,670	35%	Less than high school	\$19,096
Retail Salespersons	88,630	106,250	17,620	20%	Less than high school	\$23,547
Registered Nurses	43,870	60,620	16,750	38%	Associate's degree	\$73,894
Waiters and Waitresses	47,100	62,590	15,490	33%	Less than high school	\$18,793
					High school diploma	
Office Clerks, General	68,460	82,930	14,470	21%	or equivalent	\$30,202
Personal Care Aides	25,540	38,290	12,750	50%	Less than high school	\$17,276
Cashiers	58,500	70,570	12,070	21%	Less than high school	\$19,614
Janitors and Cleaners, Except Maids						
and Housekeeping Cleaners	44,610	55,660	11,050	25%	Less than high school	\$20,999
Secondary School Teachers, Except						
Special and Career/Technical						
Education	26,560	37,000	10,440	39%	Bachelor's degree	\$55,982

Source: TWC

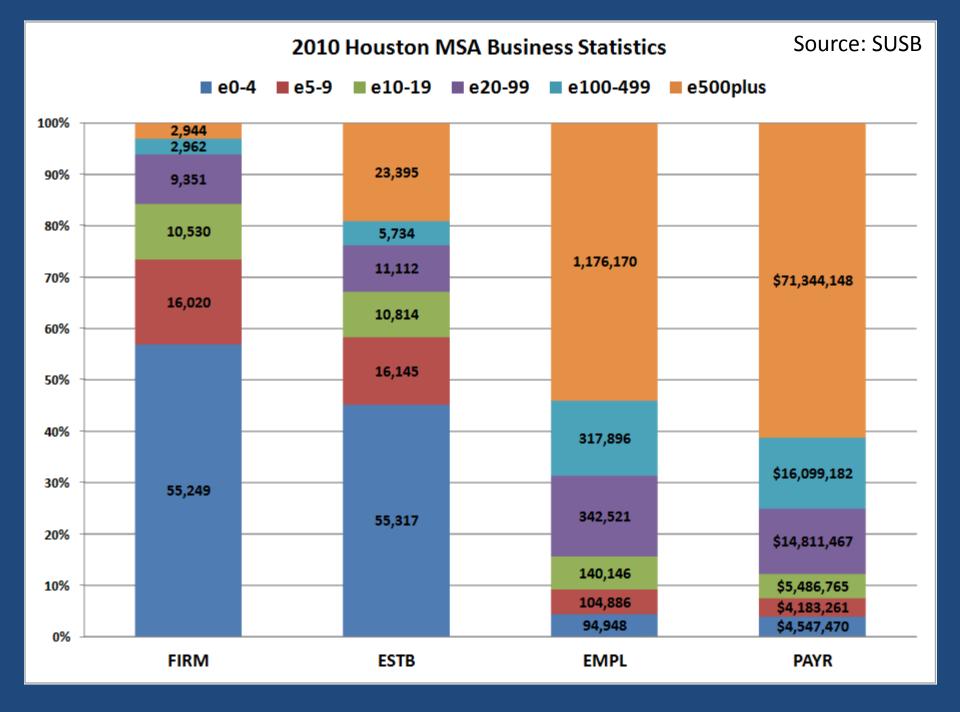
Statistics of US Businesses (SUSB)

U.S. Census Bureau

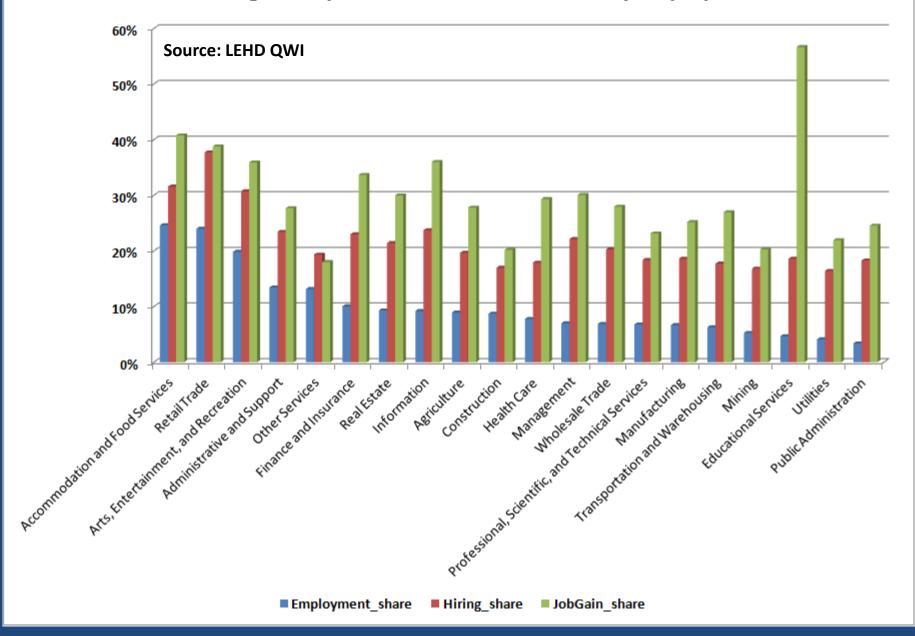
- Source: Business Register (BR)
- Geographic Unit: County
- Data Items:
 - Number of employees, establishments, firms
 - Establishment births, deaths, expansions, contractions
- Segmentation: industry, employment size
- Frequency: Annual
- Lag: 2 years
- http://www.census.gov/econ/susb/

Other Sources on Firm Size:

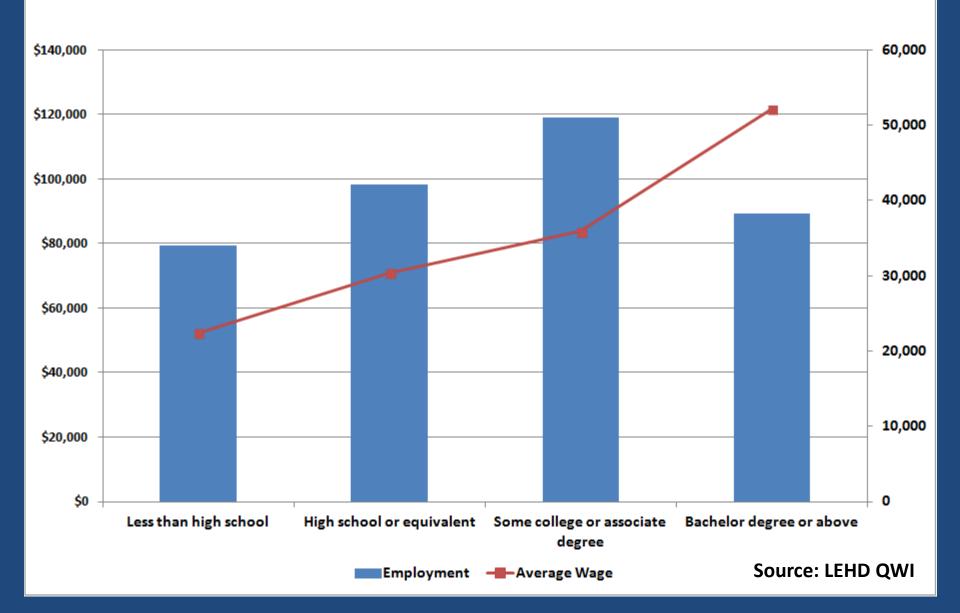
QCEW, CBP, ZBP, and LEHD QWI



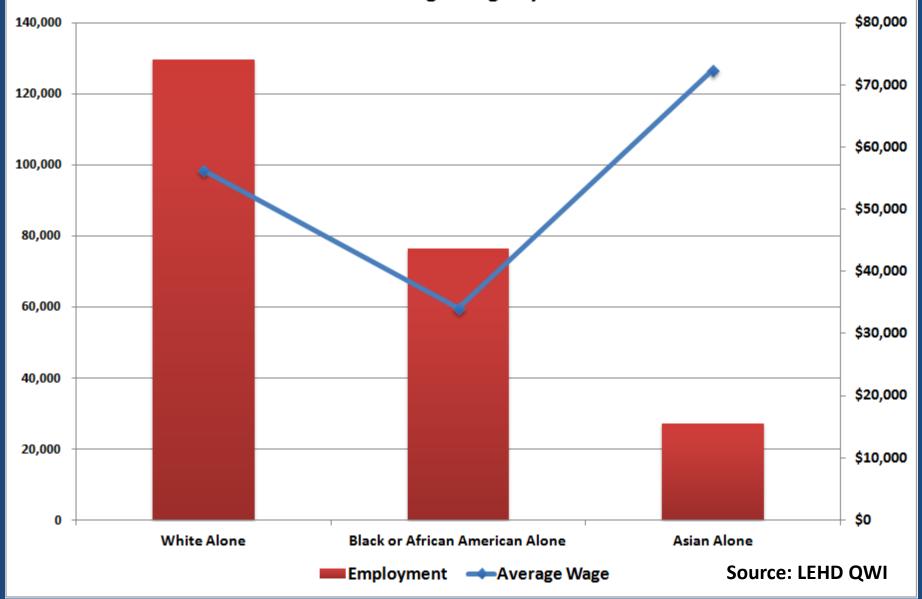
2011Q3 Age Group 19-24 shares in Harris county Employment



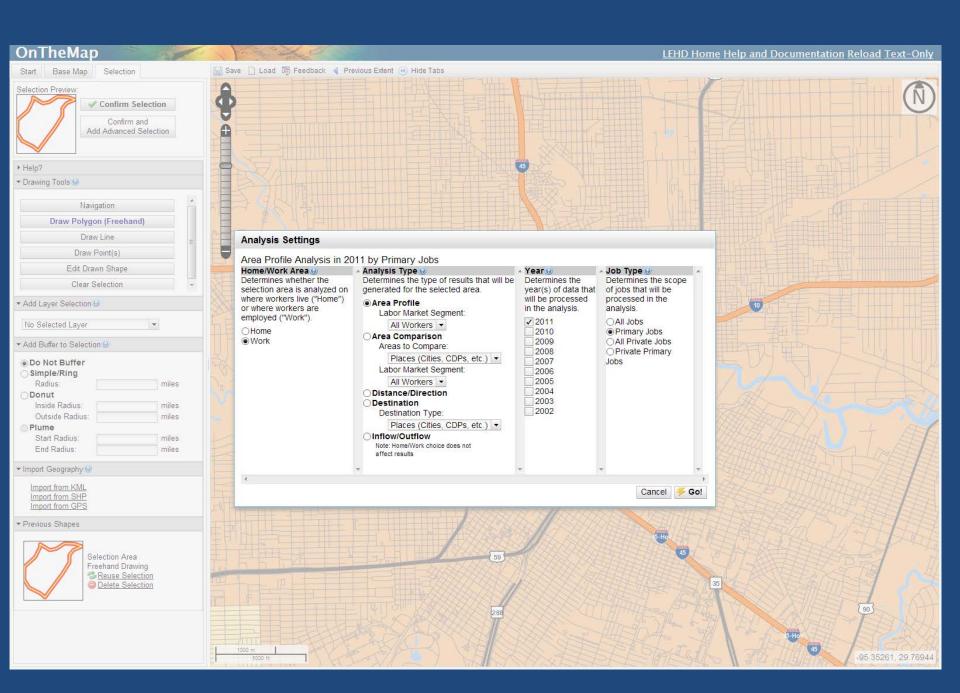
2011Q3 Harris County Manufacturing Industry Employment and Average Wage by Level of Education

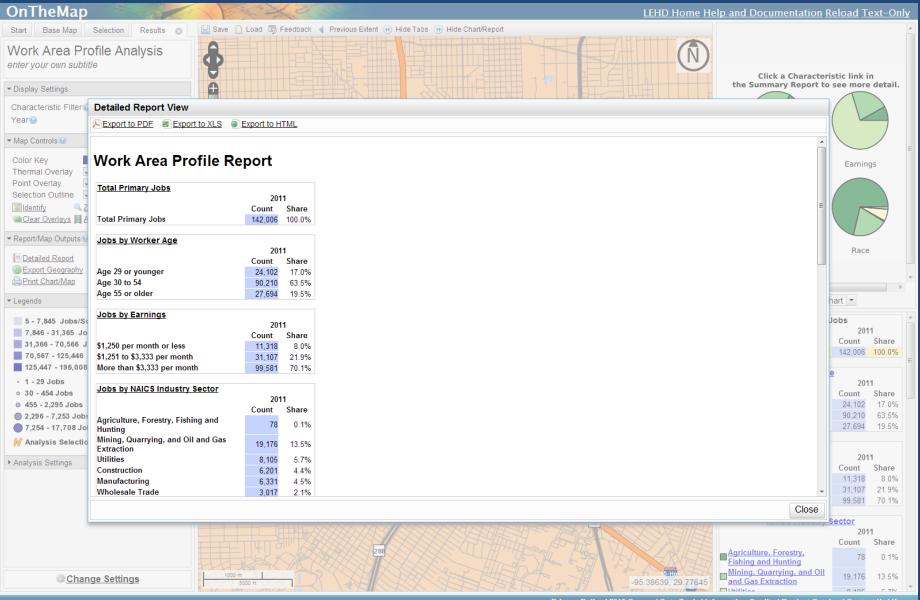


2011Q3 Harris County Health Care Employment and Average Wage by Race



OnTheMap LEHD Home Help and Documentation Reload Text-Only 🔛 Save 🗋 Load 👨 Feedback 🤚 Previous Extent 🐽 Hide Tabs Base Map Selection ▼ Welcome to OnTheMap! Start an analysis by using one of the tools below (Search, Import Geography, or Load .OTM file). Hover over the Help icons located throughout the application to see Help tips for using specific functionality. Sections in the control panel can be collapsed or opened by clicking the section title. 2011 data now available! Read New Data Notice (05/15/2013) ▼ Search @ Search Anchorage Search All Names • ▼ Import Geography @ Import from KML Import from SHP Import from GPS ▼ Load .OTM File @ Seattle Portland Click the "Load" button below to load a .OTM file. Buffalo Boston New York olumbus Virginia Beach Load Gakland Fresno Fresno Riverside Albuquerque " Urban Honolulu Greensboro San Juan -139.01923. -13.70574





On the Map: Place of Work(Downtown)

Jobs by Worker Race			
	2010		
	Count	Share	
White Alone	107,814	71.20%	
Black or African American Alone	31,415	20.70%	
American Indian or Alaska Native Alone	777	0.50%	
Asian Alone	9,534	6.30%	
Native Hawaiian or Other Pacific Islander Alone	191	0.10%	
Two or More Race Groups	1,715	1.10%	

Jobs by Worker Educational Attainment				
	2010			
	Count	Share		
Less than high school	11,709	7.70%		
High school or equivalent, no college	25,295	16.70%		
Some college or Associate degree	42,197	27.90%		
Bachelor's degree or advanced degree	45,843	30.30%		
Educational attainment not available (workers aged 29 or younger)	26,402	17.40%		

Jobs Counts by Places (Cities, CDPs, etc.) Where Workers Live - All Jobs		
		2010
	Count	Share
Houston city, TX	54,211	35.80%
Pearland city, TX	2,892	1.90%
Pasadena city, TX	2,240	1.50%
Atascocita CDP, TX	2,131	1.40%
Missouri City city, TX	2,032	1.30%
Sugar Land city, TX	1,969	1.30%
The Woodlands CDP, TX	1,769	1.20%
League City city, TX	1,560	1.00%
Spring CDP, TX	1,469	1.00%
Austin city, TX	1,379	0.90%
All Other Locations	79,794	52.70%

On the Map: Place of Work(Downtown)

Jobs by NAICS Industry Sector				
	2010			
	Count	Share		
Agriculture, Forestry, Fishing and Hunting	78	0.10%		
Mining, Quarrying, and Oil and Gas Extraction	18,496	12.20%		
Utilities	8,608	5.70%		
Construction	5,983	4.00%		
Manufacturing	6,964	4.60%		
Wholesale Trade	3,459	2.30%		
Retail Trade	2,091	1.40%		
Transportation and Warehousing	9,946	6.60%		
Information	3,192	2.10%		
Finance and Insurance	8,589	5.70%		
Real Estate and Rental and Leasing	1,422	0.90%		
Professional, Scientific, and Technical Services	18,866	12.50%		
Management of Companies and Enterprises	2,035	1.30%		
Administration & Support, Waste Management and Remediation	12,574	8.30%		
Educational Services	2,779	1.80%		
Health Care and Social Assistance	4,981	3.30%		
Arts, Entertainment, and Recreation	3,983	2.60%		
Accommodation and Food Services	4,442	2.90%		
Other Services (excluding Public Administration)	1,822	1.20%		
Public Administration	31,136	20.60%		

On the Map: Place of Work (Downtown)

Job Counts in Home Blocks by Distance Only				
		2010		
	Count	Share		
Total All Jobs	151,446	100.00%		
Less than 10 miles	36,841	24.30%		
10 to 24 miles	75,623	49.90%		
25 to 50 miles	17,474	11.50%		
Greater than 50 miles	21,508	14.20%		

Direction Of Home Blocks	Jobs
East	10,112
North	23,460
North East	11,691
North West	29,050
South	8,950
South East	15,023
South West	21,318
West	31,842

Selection Area Labor Market Size (All Jobs)				
	2010			
	Count	Share		
Employed in the Selection Area	151,446	100.00%		
Living in the Selection Area	2,883	1.90%		
Net Job Inflow (+) or Outflow (-)	148,563	-		
In-Area Labor Force Efficiency (All Jobs)				
	2010			
	Count	Share		
Living in the Selection Area	2,883	100.00%		
Living and Employed in the Selection Area	578	20.00%		
Living in the Selection Area but Employed Outside	2,305	80.00%		
In-Area Employment Efficiency (All Jobs)				
	2010			
	Count	Share		
Employed in the Selection Area	151,446	100.00%		
Employed and Living in the Selection Area	578	0.40%		
Employed in the Selection Area but Living Outside	150,868	99.60%		

Summary

- County-Level Total Employment: BEA
- County-Level Wage and Salary Employment:
 - By Place of Work: BEA, QCEW, CBP, LEHD QWI, LEHD WAC
 - By Place of Residence: BLS LAUS, ACS, LEHD RAC
- County and City-Level Unemployment: BLS LAUS, ACS
- Unemployment by age, gender, race, education, Industry and occupation (MSA and City): BLS GP
- Occupation Employment: TWC, BLS OES
- Total Self Employment By County: BEA
- Self Employment (not total) by Industry (proxy): Nonemployer Statistics
- Businesses with no paid employees: Nonemployer Statistics
- County-level Payroll/Wage data: QCEW, LEHD QWI, CBP, BEA

Summary

- Block-level employment by place of residence: LEHD RAC
- Block-level employment by place of work: LEHD WAC
- Origin-Destination data: LEHD OD
- County-level industry employment tabulations by age, gender, education, ethnicity, race: LEHD QWI
- Block-level industry employment tabulations by age, gender, education, ethnicity, race: LEHD RAC, LEHD WAC
- Job dynamics: LEHD QWI
- Establishments: QCEW, CBP, ZBP, LEHD QWI, SUSB
- Firm Size: LEHD QWI, SUSB
- Primary Jobs (for Workplace Geography): WAC

QUESTIONS?

