



# ETL Project

**US State Database:  
Median Income, Population & Unemployment Rates for  
2015 - 2019**

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# Data Sets



## 1. Median Household Income by State

- a. Downloaded as CSV from US Census website
- b. Included years from 1984 - 2019
- c. <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-income-households.html>

## 2. Population Totals by State

- a. Downloaded as CSV from US Census website
- b. Included years from 2010 - 2019
- c. <https://www.census.gov/data/tables/time-series/demo/popest/2010s-state-total.html>

## 3. Unemployment Rates by State

- a. Webscraped 4 HTML tables for years 2016 - 2019 from US Bureau of Labor website
- b. <https://www.bls.gov/lau/lastrk19.htm>, <https://www.bls.gov/lau/lastrk18.htm>,  
<https://www.bls.gov/lau/lastrk17.htm>, <https://www.bls.gov/lau/lastrk16.htm>,
- c. For 2015, created spreadsheet manually as only a PDF was available for this year



Possible Data Loss															Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format.														
A1		Geographic Area																											
A		B		C		D		E		F		G		H		I		J		K		L		M		N			
Geographic		1-Apr-10		Population Estimate (as of July 1)																									
		Census		Estimates Based On		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019					
United States		308,745,538		308,758,105		309,321,666		311,556,874		313,830,990		315,993,715		318,301,008		320,635,163		322,941,311		324,985,539		326,687,501		328,239,523					
Northeast		55,317,240		55,318,443		55,380,134		55,604,223		55,775,216		55,901,806		56,006,011		56,034,684		56,042,330		56,059,240		56,046,620		55,982,803					
Midwest		66,927,001		66,929,725		66,974,416		67,157,800		67,336,743		67,560,379		67,745,167		67,860,583		67,987,540		68,126,781		68,236,628		68,329,004					
South		114,555,744		114,563,030		114,866,680		116,006,522		117,241,208		118,364,400		119,624,037		120,997,341		122,351,760		123,542,189		124,569,433		125,580,448					
West		71,945,553		71,946,907		72,100,437		72,788,329		73,477,823		74,167,130		74,925,793		75,742,555		76,559,681		77,257,329		77,834,820		78,347,268					
Alabama		4,779,736		4,780,125		4,785,437		4,799,069		4,815,588		4,830,081		4,841,799		4,852,347		4,863,525		4,874,486		4,887,681		4,903,185					
Alaska		710,231		710,249		713,910		722,128		730,443		737,068		736,283		737,498		741,456		739,700		735,139		731,545					
Arizona		6,392,017		6,392,288		6,407,172		6,472,643		6,554,978		6,632,764		6,730,413		6,828,076		6,941,072		7,044,008		7,158,024		7,278,717					
Arkansas		2,915,918		2,916,031		2,921,964		2,940,667		2,952,164		2,959,400		2,967,392		2,979,648		2,989,918		3,001,345		3,009,733		3,017,804					
California		37,253,956		37,254,519		37,319,502		37,638,369		37,948,800		38,260,787		38,596,972		38,918,045		39,167,117		39,358,497		39,461,588		39,512,223					
Colorado		5,029,196		5,029,119		5,047,349		5,121,108		5,192,647		5,269,035		5,350,101		5,450,623		5,539,215		5,611,885		5,691,287		5,758,736					
Connecticut		3,574,097		3,574,147		3,579,114		3,588,234		3,594,547		3,594,841		3,594,524		3,587,122		3,578,141		3,573,297		3,571,520		3,565,287					
Delaware		897,934		897,937		899,953		907,381		915,179		923,576		932,487		941,252		948,921		956,823		965,479		973,764					
District of Columbia		601,723		601,767		605,226		619,800		634,924		650,581		662,328		675,400		685,815		694,906		701,547		705,749					
Florida		18,801,310		18,804,564		18,845,537		19,053,237		19,297,822		19,545,621		19,845,911		20,209,042		20,613,477		20,963,613		21,244,317		21,477,737					
Georgia		9,687,653		9,688,729		9,711,881		9,802,431		9,901,430		9,972,479		10,067,278		10,178,447		10,301,890		10,410,330		10,511,131		10,617,423					
Hawaii		1,360,301		1,360,307		1,363,963		1,379,329		1,394,804		1,408,243		1,414,538		1,422,052		1,427,559		1,424,393		1,420,593		1,415,872					
Idaho		1,567,582		1,567,567		1,570,746		1,583,910		1,595,324		1,611,206		1,631,112		1,651,059		1,682,380		1,717,715		1,750,536		1,787,065					
Illinois		12,830,632		12,831,572		12,840,503		12,867,454		12,882,510		12,895,129		12,884,493		12,858,913		12,820,527		12,778,828		12,723,071		12,671,821					
Indiana		6,483,802		6,484,051		6,490,432		6,516,528		6,537,703		6,568,713		6,593,644		6,608,422		6,634,304		6,658,078		6,695,497		6,732,219					
Iowa		3,046,355		3,046,871		3,050,745		3,066,336		3,076,190		3,092,997		3,109,350		3,120,960		3,131,371		3,141,550		3,148,618		3,155,070					
Kansas		2,853,118		2,853,123		2,858,190		2,869,225		2,885,257		2,893,212		2,900,475		2,909,011		2,910,844		2,908,718		2,911,359		2,913,314					
Kentucky		4,339,367		4,339,333		4,348,181		4,369,821		4,386,346		4,404,659		4,414,349		4,425,976		4,438,182		4,452,268		4,461,150		4,467,673					
Louisiana		4,533,372		4,533,487		4,544,532		4,575,625		4,600,972		4,624,527		4,644,013		4,662,628		4,678,135		4,670,560		4,659,693		4,648,794					
Maine		1,328,361		1,328,358		1,327,629		1,328,284		1,327,729		1,328,009		1,330,513		1,328,262		1,331,317		1,334,612		1,339,057		1,344,212					
		population by state 2010 to 2021																											

# Unemployment Rates by State - 2019

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## Unemployment Rates for States

### Unemployment Rates for States, 2019 Annual Averages

State	2019 rate	Rank
United States	3.7	
North Dakota	2.3	1
Vermont	2.3	1
Hawaii	2.5	3
Utah	2.5	3
New Hampshire	2.6	5
Colorado	2.7	6
Maine	2.7	6
Virginia	2.7	6
Idaho	2.8	9
Iowa	2.8	9
South Carolina	2.8	9
Alabama	3.0	12
Massachusetts	3.0	12
Nebraska	3.0	12
South Dakota	3.0	12
Oklahoma	3.1	16
Indiana	3.2	17
Kansas	3.2	17
Minnesota	3.2	17
Florida	3.3	20
Missouri	3.3	20
Wisconsin	3.3	20
New Jersey	3.4	23

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Unemployment Rates for States, 2018 Annual Averages		
State	2018 rate	Rank
United States	3.9	
Hawaii	2.4	1
North Dakota	2.5	2
Iowa	2.6	3
New Hampshire	2.6	3
Vermont	2.6	3
Idaho	2.8	6
Nebraska	2.9	7
South Dakota	2.9	7
Utah	2.9	7
Virginia	2.9	7
Colorado	3.0	11
Minnesota	3.0	11
Wisconsin	3.0	11
Maine	3.1	14
Missouri	3.2	15
Kansas	3.3	16
Oklahoma	3.3	16
Indiana	3.4	18
Massachusetts	3.4	18
South Carolina	3.4	18
Tennessee	3.5	21
Florida	3.6	22
Arkansas	3.7	23
Delaware	3.7	23
Maryland	3.8	25
Montana	3.8	25
Alabama	3.9	27
Connecticut	3.9	27

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Unemployment Rates for States

Unemployment Rates for States, 2017 Annual Averages

State	2017 rate	Rank
United States	4.4	
Hawaii	2.2	1
Colorado	2.6	2
North Dakota	2.7	3
New Hampshire	2.8	4
Nebraska	2.9	5
Vermont	3.0	6
Iowa	3.1	7
South Dakota	3.1	7
Utah	3.1	7
Idaho	3.2	10
Wisconsin	3.3	11
Maine	3.4	12
Minnesota	3.4	12
Indiana	3.5	14
Kansas	3.6	15
Arkansas	3.7	16
Tennessee	3.7	16
Virginia	3.7	16
Massachusetts	3.8	19
Missouri	3.8	19
Oklahoma	4.0	21
Maryland	4.1	22
Montana	4.1	22
Oregon	4.1	22
Florida	4.2	25
South Carolina	4.2	25
Texas	4.3	27
Wyoming	4.3	27

# Unemployment Rates by State - 2016

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<b>Unemployment Rates for States</b>		
<b>Unemployment Rates for States, 2016 Annual Averages</b>		
State	2016 rate	Rank
United States	4.9	
Hawaii	2.9	1
New Hampshire	2.9	1
South Dakota	3.0	3
Colorado	3.1	4
Nebraska	3.1	4
North Dakota	3.1	4
Vermont	3.1	4
Utah	3.3	8
Iowa	3.6	9
Idaho	3.7	10
Maine	3.8	11
Minnesota	3.9	12
Wisconsin	3.9	12
Arkansas	4.0	14
Kansas	4.0	14
Massachusetts	4.0	14
Virginia	4.0	14
Maryland	4.3	18
Montana	4.3	18
Indiana	4.4	20
Delaware	4.5	21
Missouri	4.5	21
Oklahoma	4.6	23
Texas	4.6	23
Oregon	4.7	25
Tennessee	4.7	25
Connecticut	4.8	27
Florida	4.9	28



# Unemployment Rates by State - 2015

State	Rate
United States .....	5.3
Alabama .....	6.1
Alaska .....	6.5
Arizona .....	6.1
California .....	6.2
Colorado .....	3.9
District of Columbia .....	6.9
Georgia .....	5.9
Hawaii .....	3.6
Idaho .....	4.1
Illinois .....	5.9
Iowa .....	3.7
Kansas .....	4.2
Louisiana .....	6.3
Maine .....	4.4
Minnesota .....	3.7
Mississippi .....	6.5
Montana .....	4.1
Nebraska .....	3.0
Nevada .....	6.7
New Hampshire .....	3.4
New Mexico .....	6.6
North Dakota .....	2.7
Ohio .....	4.9
Oklahoma .....	4.2
Rhode Island .....	6.0
South Carolina .....	6.0
South Dakota .....	3.1
Texas .....	4.5
Utah .....	3.5
Vermont .....	3.7



Possible Data Loss Some features might be lost if you save

D4

	A	B	C	D	E
1	State	2015 Rate			
2	United State	5.3			
3	Alabama	6.1			
4	Alaska	6.5			
5	Arizona	6.1			
6	Arkansas	5.2			
7	California	6.2			
8	Colorado	3.9			
9	Connecticut	5.6			
10	Delaware	4.9			
11	District of Co	6.9			
12	Florida	5.4			
13	Georgia	5.9			
14	Hawaii	3.6			
15	Idaho	4.1			
16	Illinois	5.9			
17	Indiana	4.8			
18	Iowa	3.7			
19	Kansas	4.2			
20	Kentucky	5.4			
21	Louisiana	6.3			
22	Maine	4.4			
23	Maryland	5.2			
24	Massachuset	5			
25	Michigan	5.4			
26	Minnesota	3.7			
27	Mississippi	6.5			

Unemployment by State\_2015

# Jupyter Notebook Walkthrough

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**Thank You**