Section VI: Data Appendix

Variable Name: allindustriesemploymentmo3
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Original File Name:
XXXX.q1-q4 10 Total, all industries
(Where XXXX = 2006 – 2011)
Name of Variable in Original Source:
month3_emplvl
Missing Observations: 0/1,351
Variables Description: Number of employed people in the third month of each quarter
Variable Values and Coding:

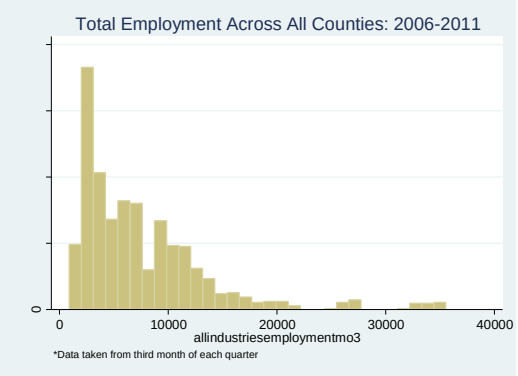
- Integers
- Continuous
- Range (county level): 900– 35,568
- Range (state level): 538,208 – 1,521,196

Descriptive Statistics: County Level (All Counties)
Mean: 7,488.454
Median: 6,024
Standard Deviation: 6,048.713
Minimum: 900
Maximum: 35,568

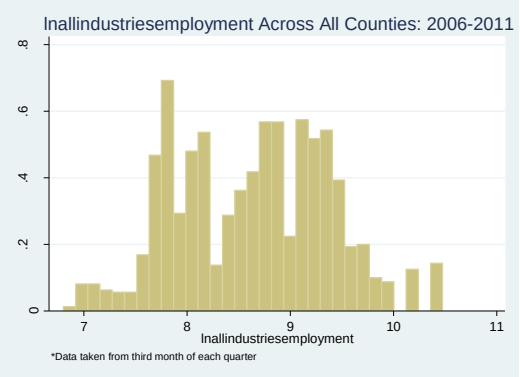
Descriptive Statistics: State Level (KY)
Mean: 1,457,048
Median: 1,462,737
Standard Deviation: 44,641.44
Minimum: 1,376,774
Maximum: 1,521,196

Descriptive Statistics: State Level (WV)
Mean: 564,099
Median: 563,124.5
Standard Deviation: 11,644.99
Minimum: 538,208
Maximum: 579,074

Histogram: County Level (All Counties)



Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)

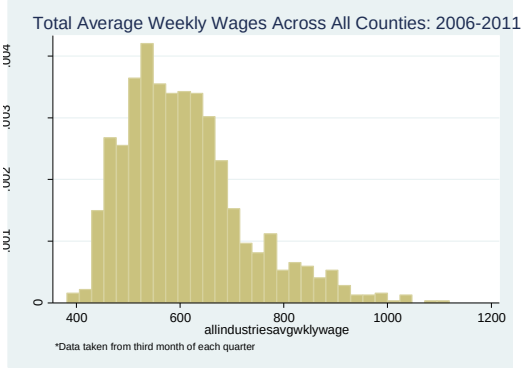
Time Series Graph: State Level (West Virginia)

Variable Name: allindustriesavgwklywage
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
avg_wkly_wage
Original File(s) Name:
XXXX.q1-q4 10 Total, all industries
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Average weekly wage for all industries in a given quarter in the in USD ($), inflation was unaccounted for.
Variable Values and Coding:

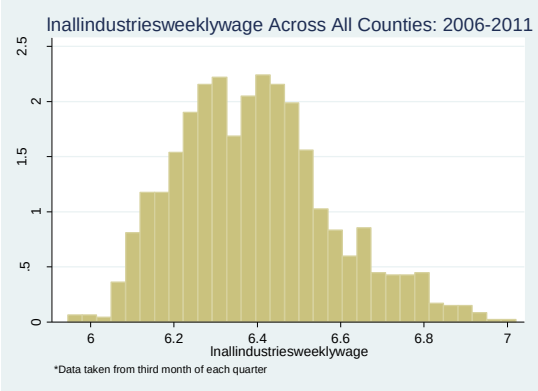
- Integers
- Continuous
- Range (county level): $382 – $1,119
- Range (state level): $602– $797

Descriptive Statistics: County Level (All Counties)
Mean: $608.2198
Median: $590
Standard Deviation: $117.2435
Minimum: $382
Maximum: $1,119
Descriptive Statistics: State Level (KY)
Mean: $716.0833
Median: $708.5
Standard Deviation: $39.80814
Minimum: $652
Maximum: $797
Descriptive Statistics: State Level (WV)
Mean: $679.625
Median: $672
Standard Deviation: $50.13617
Minimum: $602
Maximum: $770

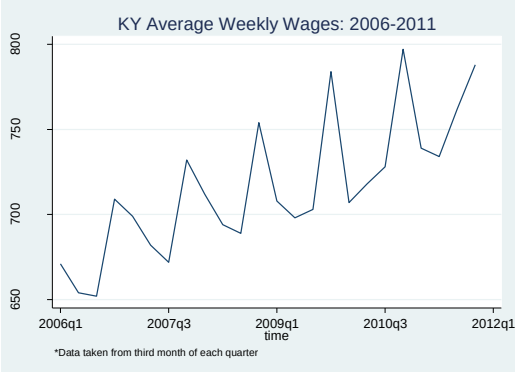
Histogram: County Level (All Counties)



Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



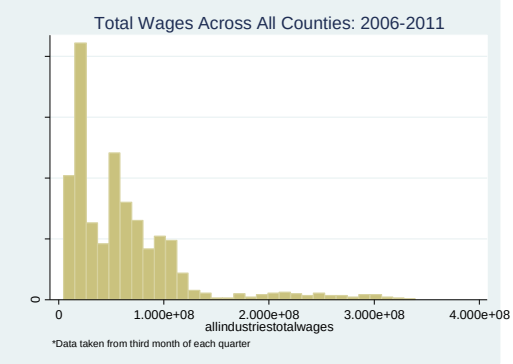
Time Series Graph: State Level (West Virginia)

Variable Name: allindustriestotalwage
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 10 Total, all industries
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in all industries in USD ($), inflation was unaccounted for.
Variable Values and Coding:

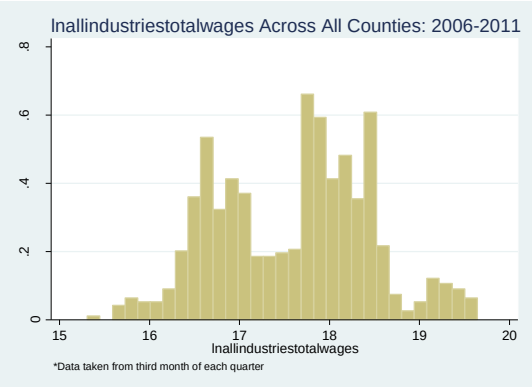
- Integers
- Continuous
- Range (county level): $4,447,525– $339,000,000
- Range (state level):
- $4,410,000,000 – $14,900,000,000

Descriptive Statistics: County Level (All Counties)
Mean: $62,600,000
Median: $51,300,000
Standard Deviation: $57,000,000
Minimum: $4,447,525
Maximum: $339,000,000
Descriptive Statistics: State Level (KY)
Mean: $12,600,000,000
Median: $13,400,000,000
Standard Deviation: $700,000,000
Minimum: $12,600,000,000
Maximum: $14,900,000,000
Descriptive Statistics: State Level (WV)
Mean: $4,960,000,000
Median: $4,890,000,000
Standard Deviation: $360,000,000
Minimum: $4,410,000,000
Maximum: $5,690,000,000

Histogram: County Level (All Counties)



Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)

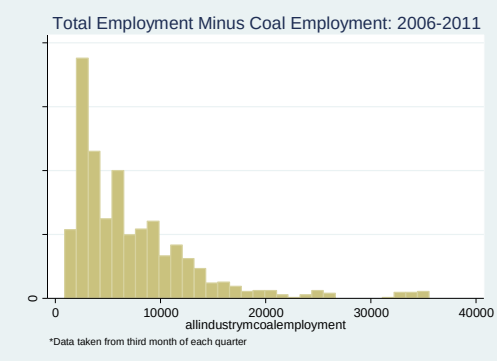
Time Series Graph: State Level (West Virginia)

Variable Name: allindustrymcoalemployment
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Original File Name:
XXXX.q1-q4 10 Total, all industries
XXXX.q1-q4 2121 Coal mining
(Where XXXX = 2006 – 2011)
Name of Variable in Original Source:
month3_emplvl
Missing Observations: 0/1,351
Variables Description: Total number of employed people minus the number of people employed in the coal industry in the third month of each quarter
Variable Values and Coding:

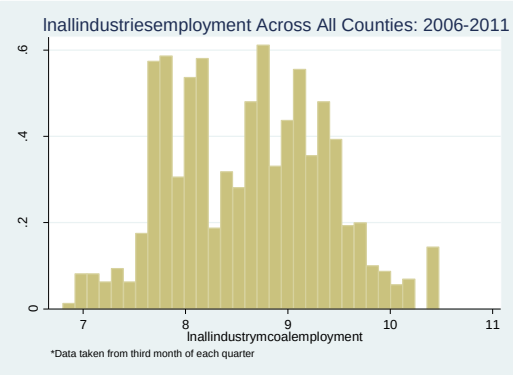
- Integers
- Continuous
- Range (county level): 900 – 35,568
- Range (state level): 518505 – 1505882

Descriptive Statistics: County Level (All Counties)
Mean: 7,281.299
Median: 5,822
Standard Deviation: 5,994.963
Minimum: 900
Maximum: 35,568
Descriptive Statistics: State Level (KY)
Mean: 1,440,563
Median: 1,445,683
Standard Deviation: 44,835.02
Minimum: 1,361,274
Maximum: 1,505,882
Descriptive Statistics: State Level (WV)
Mean: 543,740.8
Median: 543,402.5
Standard Deviation: 11,952.55
Minimum: 518,505
Maximum: 558,978

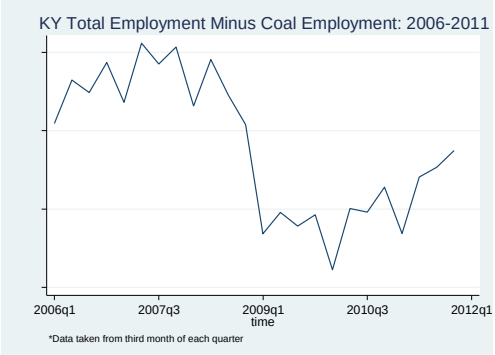
Histogram: County Level (All Counties)



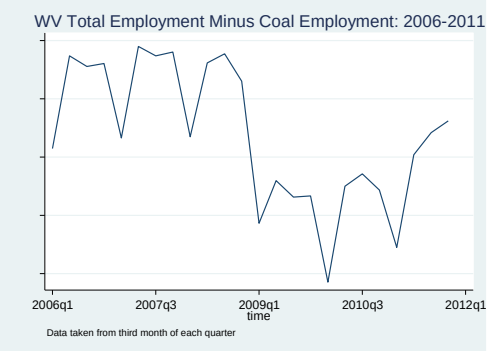
Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)



Variable Name: allindustrymcoaltotalwage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
total_qtrly_wage

Original File(s) Name:
XXXX.q1-q4 10 Total, all industries
XXXX.q1-q4 2121 Coal mining
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Total wages for a given quarter in the all industries minus the total wages in the coal industry in USD ($), inflation was unaccounted for.

Variable Values and Coding:

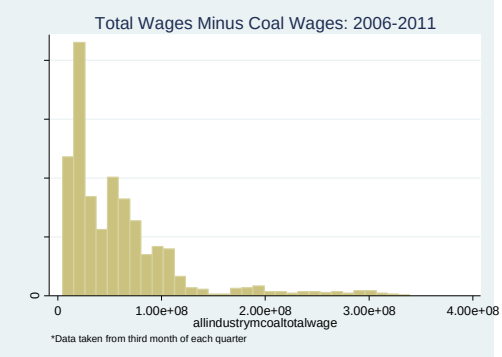
- Integers
- Continuous
- Range (county level): $4,447,525– $339,000,000
- Range (state level):
- $4,410,000,000 – $14,900,000,000

Descriptive Statistics: County Level (All Counties)
Mean: $ 4447525
Median: $45,800,000
Standard Deviation: $56,000,000
Minimum: $4,447,525
Maximum: $339,000,000

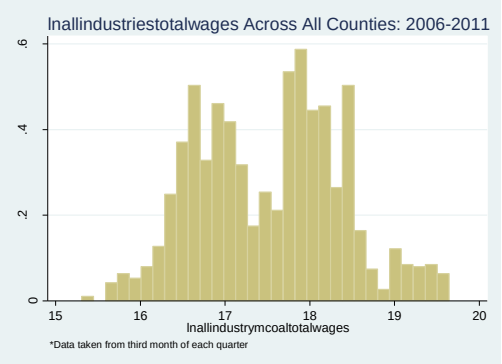
Descriptive Statistics: State Level (KY)
Mean: $13,200,000,000
Median: $13,100,000,000
Standard Deviation: $685,000,000
Minimum: $12,300,000,000
Maximum: $14,500,000,000

Descriptive Statistics: State Level (WV)
Mean: $4,580,000,000
Median: $4,510,000,000
Standard Deviation: $302,000,000
Minimum: $4,090,000,000
Maximum: $5,150,000,000

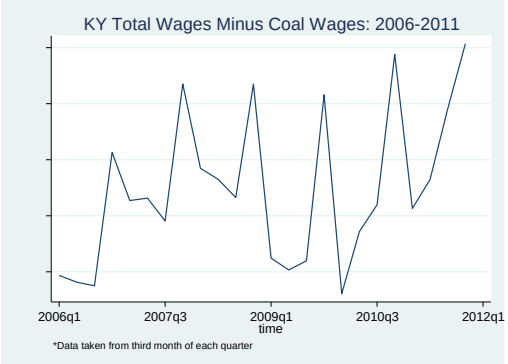
Histogram: County Level (All Counties)



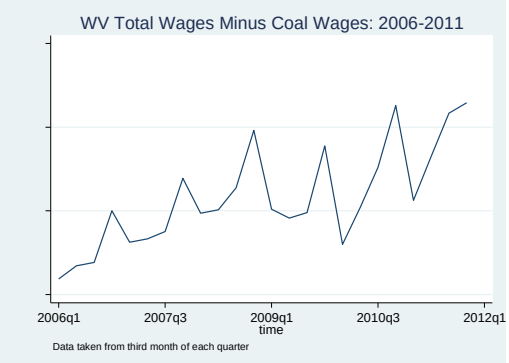
Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)



Variable Name: coalemploymentmo3

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
month3_emplvl

Original File(s) Name:
XXXX.q1-q4 2121 Coal mining
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Number of employed people in the coal mining industry in the third month of each quarter

Variable Values and Coding:

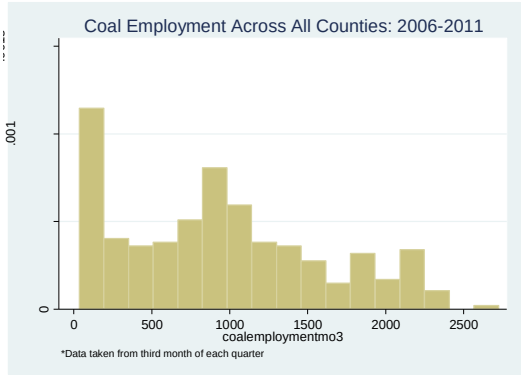
- Integers
- Continuous
- Range (county level): 35 – 2,724
- Range (state level): 15,264 – 24,512

Descriptive Statistics (Across All Counties):
Mean: 939.1477
Median: 907
Standard Deviation: 650.3533
Minimum: 35
Maximum: 2,724

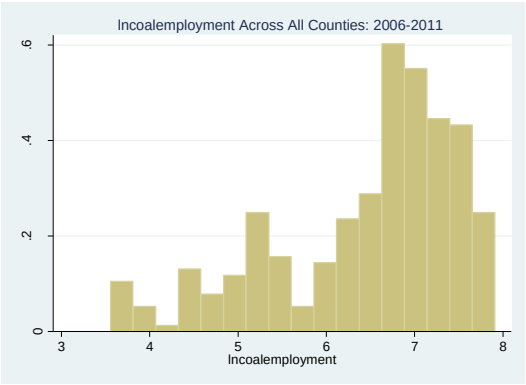
Descriptive Statistics (Total Kentucky):
Mean: 16,484.96
Median: 16,440
Standard Deviation: 885.2098
Minimum: 15,264
Maximum: 18,623

Descriptive Statistics (Total West Virginia):
Mean: 20,358.21
Median: 19,753.5
Standard Deviation: 1,812.129
Minimum: 18,202
Maximum: 24,512

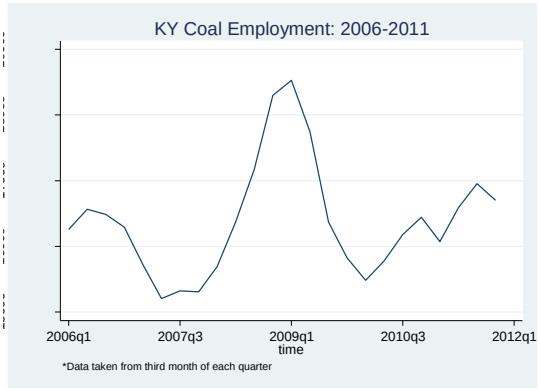
Histogram: County Level (All Counties)



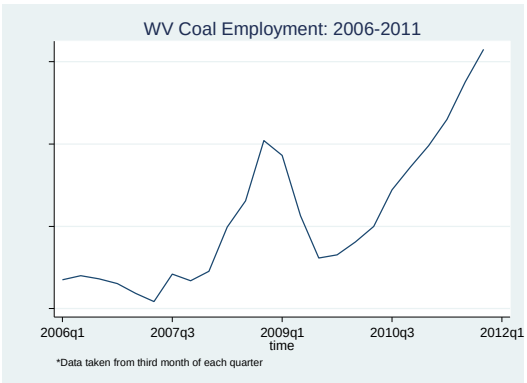
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)



Variable Name: coalavgwklywage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
avg_wkly_wage

Original File(s) Name:
XXXX.q1-q4 2121 Coal mining
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Average weekly wage for a given quarter in the coal mining industry in USD ($), inflation was unaccounted for.

Variable Values and Coding:

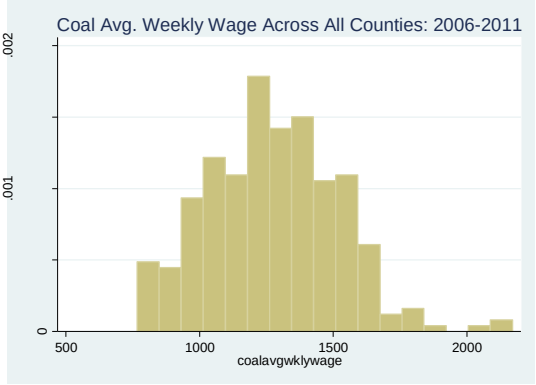
- Integers
- Continuous
- Range (county level): $766 - $2,171
- Range (state level): $1,095 - $1,705

Descriptive Statistics (Across All Counties):
Mean: $ 1,274.594
Median: $1,263.5
Standard Deviation: $246.7918
Minimum: $766
Maximum: $2,171

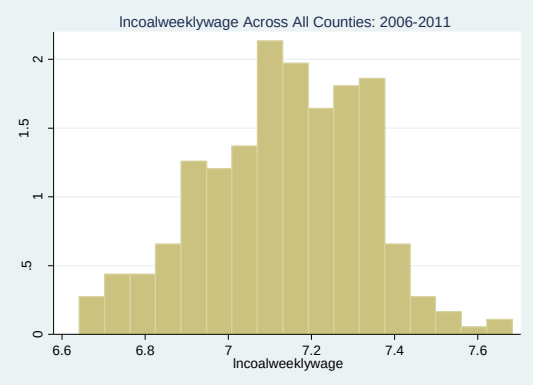
Descriptive Statistics (Total Kentucky):
Mean: $ 1,287.792
Median: $1,270
Standard Deviation: $ 121.35
Minimum: $1,095
Maximum: $1,505

Descriptive Statistics (Total West Virginia):
Mean: $1,436.958
Median: $1,432
Standard Deviation: $143.5535
Minimum: $1,186
Maximum: $1,705

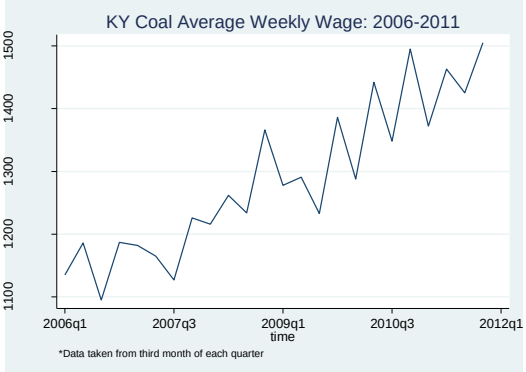
Histogram: County Level (All Counties)



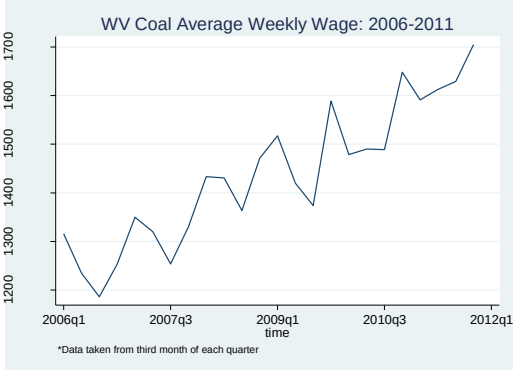
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

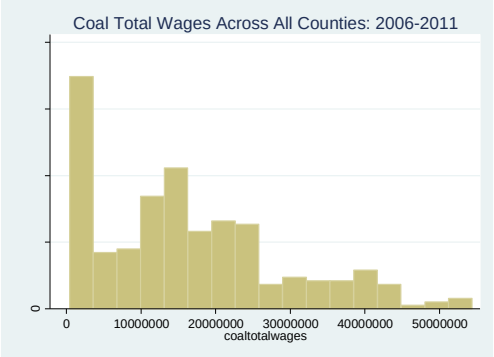


Variable Name: coaltotalwages
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 2121 Coal mining
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in the coal mining industry in USD ($), inflation was unaccounted for.
Variable Values and Coding:

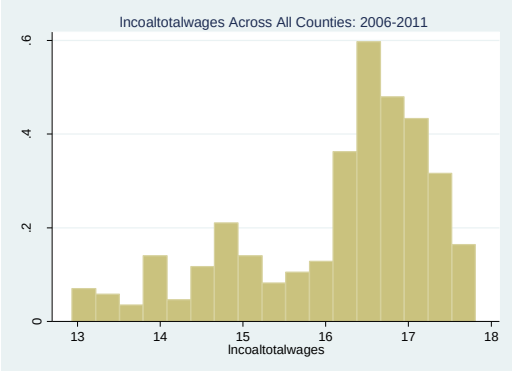
- Integers
- Continuous
- Range (county level): $414,926 – $54,400,000
- Range (state level): $224,000,000 – $539,000,000

Descriptive Statistics (Across All Counties):
Mean: $16,400,000
Median: $14,400,000
Standard Deviation: $12,600,000
Minimum: $414,926
Maximum: $54,400,000
Descriptive Statistics (Total Kentucky):
Mean: $275,000,000
Median: $271,000,000
Standard Deviation: $32,500,000
Minimum: $224,000,000
Maximum: $328,000,000
Descriptive Statistics (Total West Virginia):
Mean: $381,000,000
Median: $374,000,000
Standard Deviation: $68,300,000
Minimum: $290,000,000
Maximum: $539,000,000

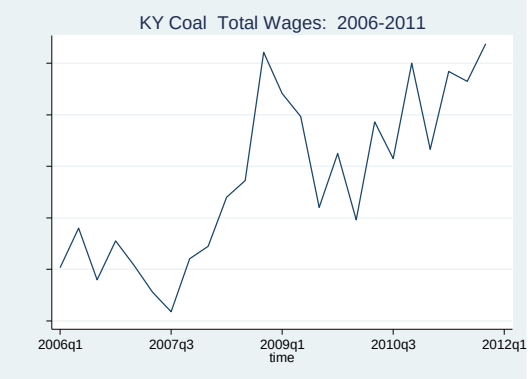
Histogram: County Level (All Counties)



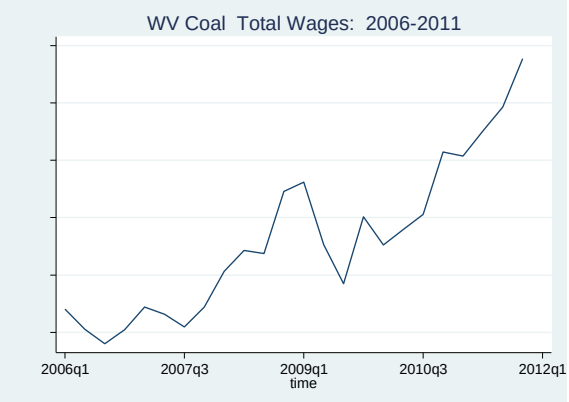
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

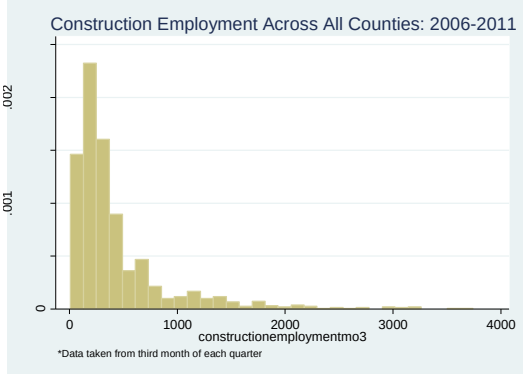


Variable Name: constructionemploymentmo3
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
month3_emplvl
Original File(s) Name:
XXXX.q1-q4 23 Construction
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Number of employed people in the construction industry in the third month of each quarter
Variable Values and Coding:

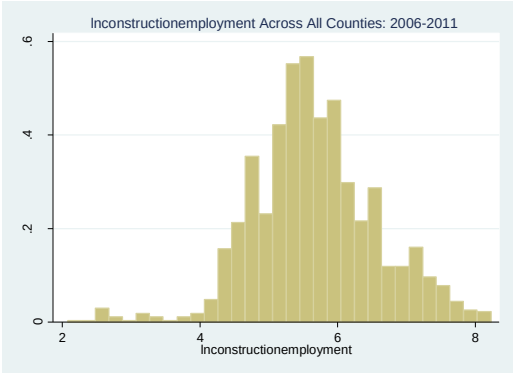
- Integers
- Continuous
- Range (county level): 8 – 3,744
- Range (state level): 29,107– 88,547

Descriptive Statistics (Across All Counties):
Mean: 434.1088
Median: 272
Standard Deviation: 478.5175
Minimum: 8
Maximum: 3,744
Descriptive Statistics (Total Kentucky):
Mean: 77,084.5
Median: 77,410.5
Standard Deviation: 8,281.65
Minimum: 63,746
Maximum: 88,547
Descriptive Statistics (Total West Virginia):
Mean: 36,406.5
Median: 35,572
Standard Deviation: 3,752.632
Minimum: 29,107
Maximum: 42,139

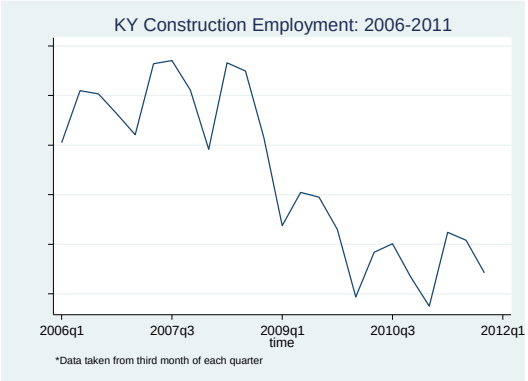
Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

Variable Name: constructionavgwklywage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
avg_wkly_wage

Original File(s) Name:
XXXX.q1-q4 23 Construction
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Average weekly wage for a given quarter in the construction industry in USD ($), inflation was unaccounted for.

Variable Values and Coding:

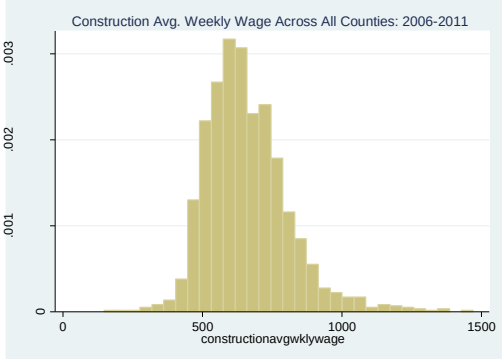
- Integers
- Continuous
- Range (county level): $148 – $1,471
  Range (state level): $667 – $1,006

Descriptive Statistics (Across All Counties):
Mean: $660.8335
Median: $640
Standard Deviation: $150.5171
Minimum: $148
Maximum: $1,471

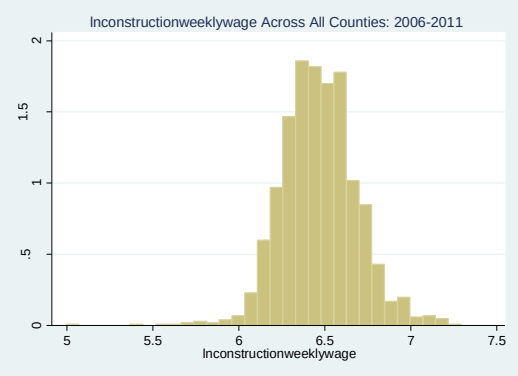
Descriptive Statistics (Total Kentucky):
Mean: $ 799.7917
Median: $794
Standard Deviation: $70.45194
Minimum: $681
Maximum: $925

Descriptive Statistics (Total West Virginia):
Mean: $833
Median: $825
Standard Deviation: $ 89.61997
Minimum: $667
Maximum: $1,006

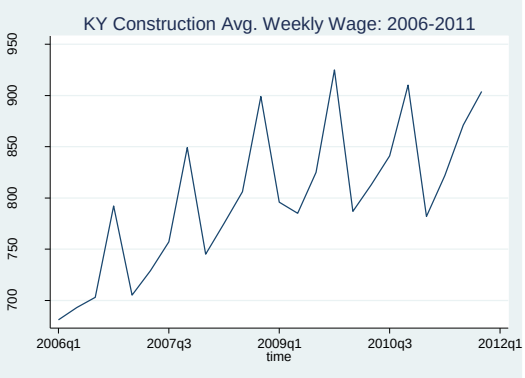
Histogram: County Level (All Counties)



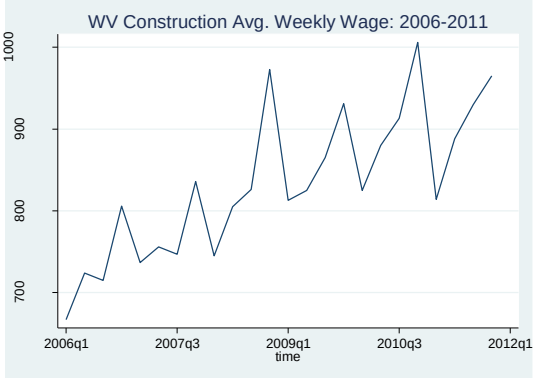
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)



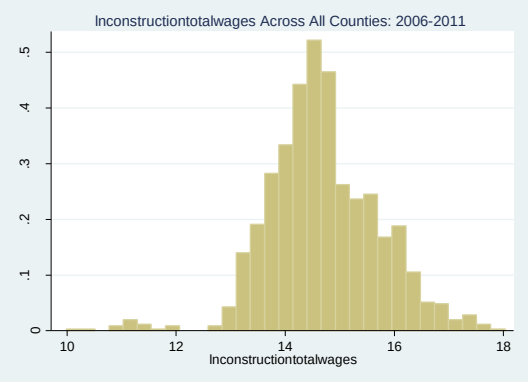
Variable Name: constructiontotalwages
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 23 Construction
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in the construction industry in USD ($), inflation was unaccounted for.
Variable Values and Coding:

- Integers
- Continuous
  Range (county level):
  $9,514 – $465,000,000
- Range (state level):
  $303,000,000 – $3,670,000,000

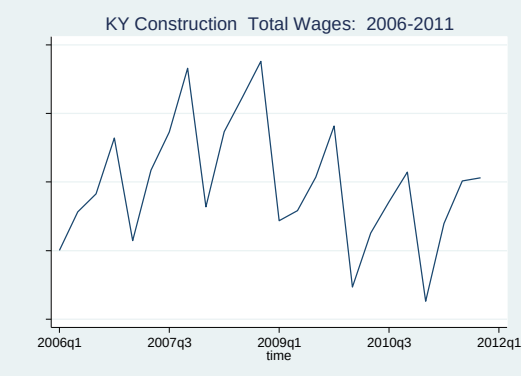
Descriptive Statistics (Across All Counties):
Mean: $4,064,731
Median: $2,223,842
Standard Deviation: $5,520,878
Minimum: $21,857
Maximum: $67,700,000
Descriptive Statistics (Total Kentucky):
Mean: $797,000,000
Median: $792,000,000
Standard Deviation: $89,800,000
Minimum: $627,000,000
Maximum: $976,000,000
Descriptive Statistics (Total West Virginia):
Mean: $392,000,000
Median: $390,000,000
Standard Deviation: $51,800,000
Minimum: $297,000,000
Maximum: $520,000,000

Histogram: County Level (All Counties)

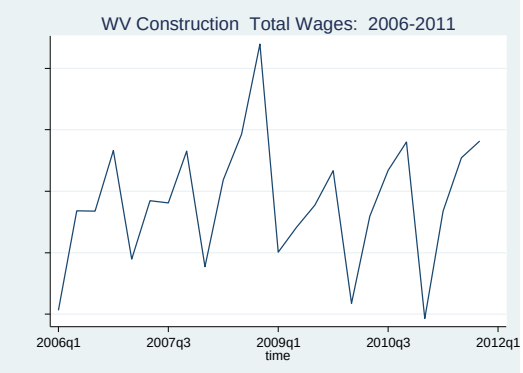
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

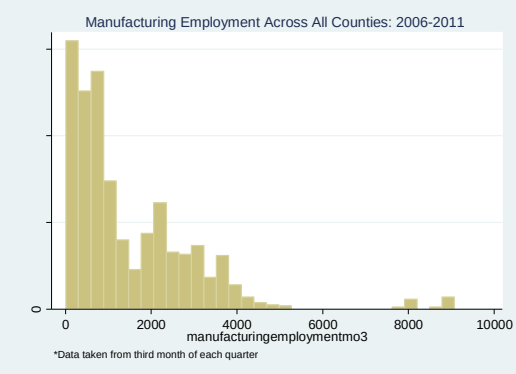


Variable Name:
manufacturingemploymentmo3
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
month3_emplvl
Original File(s) Name:
XXXX.q1-q4 31-33 Manufacturing
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Number of employed people in the manufacturing industry in the third month of each quarter
Variable Values and Coding:

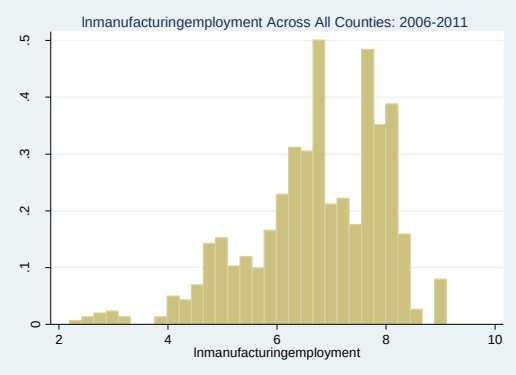
- Integers
- Continuous
- Range (county level): 9 – 9,081
- Range (state level): 48,464 – 262,879

Descriptive Statistics (Across All Counties):
Mean: 1,489.417
Median: 901
Standard Deviation: 1,502.493
Minimum: 9
Maximum: 9,081
Descriptive Statistics (Total Kentucky):
Mean: 232,949.5
Median: 225,542
Standard Deviation: 22396.95
Minimum: 207,085
Maximum: 262,879
Descriptive Statistics (Total West Virginia):
Mean: 54,259.38
Median: 53,219
Standard Deviation: 4,943.811
Minimum: 48,464
Maximum: 61,674

Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)

Time Series Graph: State Level (West Virginia)

Variable Name: manufacturingavgwklywage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
avg_wkly_wage

Original File(s) Name:
XXXX.q1-q4 31-33 Manufacturing
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Average weekly wage for a given quarter in the manufacturing industry in USD ($), inflation was unaccounted for.

Variable Values and Coding:

- Integers
- Continuous
- Range (county level): $316 – $1,575
- Range (state level): $813 – $1,031

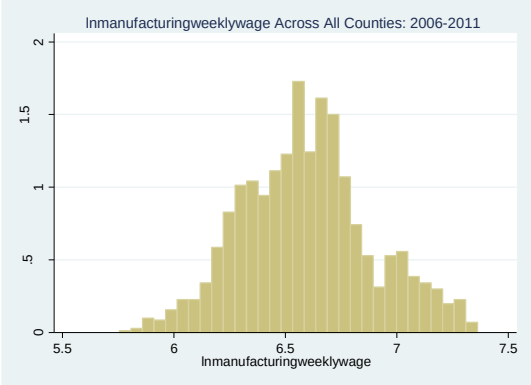
Descriptive Statistics (Across All Counties):
Mean: $763.9326
Median: $723
Standard Deviation: $232.596
Minimum: $316
Maximum: $1,575

Descriptive Statistics (Total Kentucky):
Mean: $ 926
Median: $ 907.5
Standard Deviation: $ 50.4398
Minimum: $851
Maximum: $ 1,027

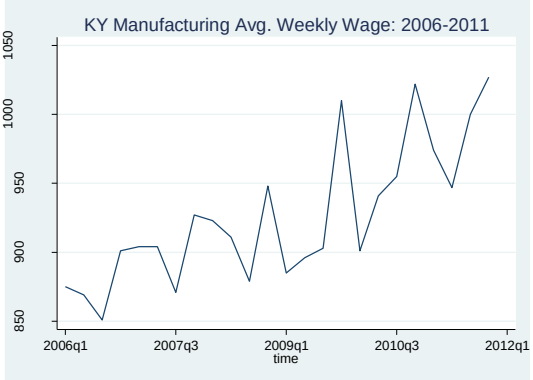
Descriptive Statistics (Total West Virginia):
Mean: $905.75
Median: $ 909
Standard Deviation: $ 58.07178
Minimum: $813
Maximum: $1,031

Histogram: County Level (All Counties)

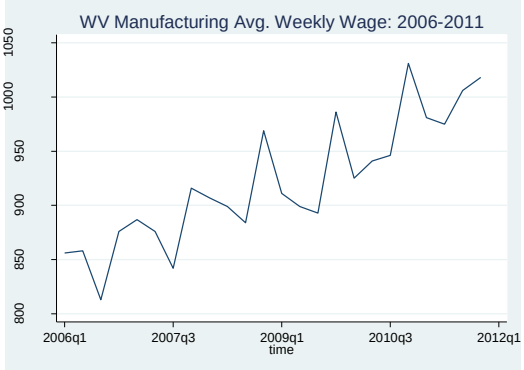
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

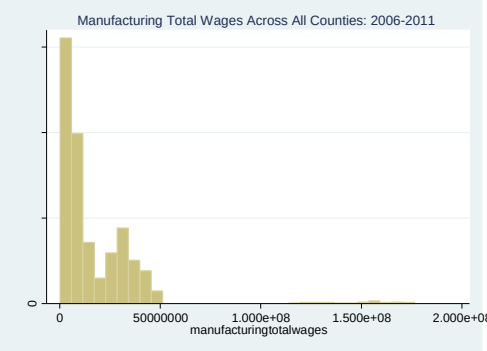


Variable Name: manufacturingtotalwages
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 31-33 Manufacturing
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in the manufacturing industry in USD ($), inflation was unaccounted for.
Variable Values and Coding:

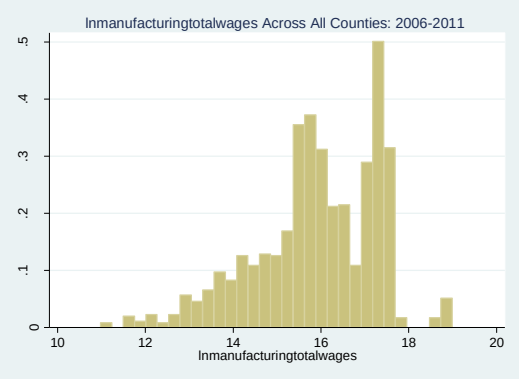
- Integers
- Continuous
- Range (county level): $58,504 – $176,000,000
- Range (state level): $577,000,000 – $3,040,000,000

Descriptive Statistics (Across All Counties):
Mean: $16,900,000
Median: $8,478,644
Standard Deviation: $22,500,000
Minimum: $58,504
Maximum: $176,000,000
Descriptive Statistics (Total Kentucky):
Mean: $2,810,000,000
Median: $2,870,000,000
Standard Deviation: $219,000,000
Minimum: $2,410,000,000
Maximum: $3,040,000,000
Descriptive Statistics (Total West Virginia):
Mean: $647,000,000
Median: $651,000,000
Standard Deviation: $36,500,000
Minimum: $577,000,000
Maximum: $701,000,000

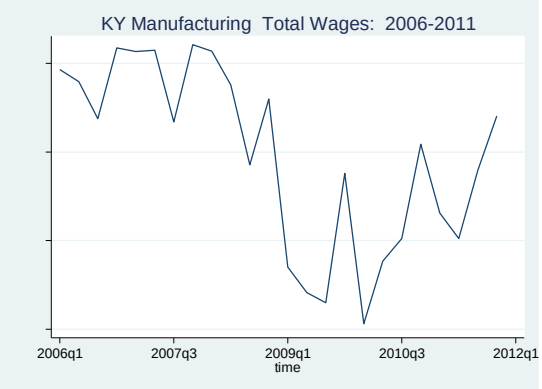
Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



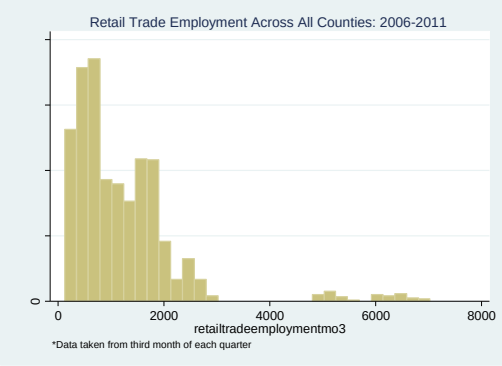
Time Series Graph: State Level (West Virginia)

Variable Name: retailtradeemploymentmo3
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
month3_emplvl
Original File(s) Name:
XXXX.q1-q4 44-45 Retail Trade
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Number of employed people in the retail trade industry in the third month of each quarter
Variable Values and Coding:

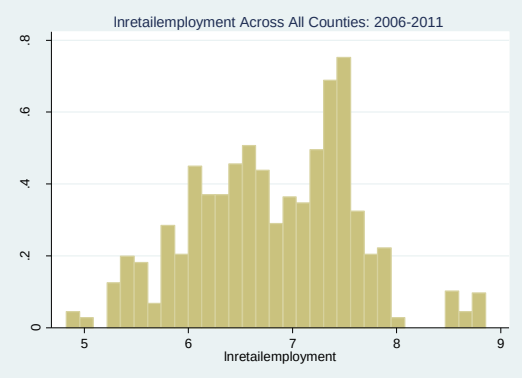
- Integers
- Continuous
- Range (county level): 125 – 7,033
- Range (state level): 84,997 – 221,401

Descriptive Statistics (Across All Counties):
Mean: 1,217.43
Median: 918
Standard Deviation: 1,062.061
Minimum: 125
Maximum: 7,033
Descriptive Statistics (Total Kentucky):
Mean: 207,502.1
Median: 208,694.5
Standard Deviation: 7,015.982
Minimum: 197,631
Maximum: 221,401
Descriptive Statistics (Total West Virginia):
Mean: 89,274.17
Median: 90,040
Standard Deviation: 2,833.215
Minimum: 84,997
Maximum: 95,312

Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)

Time Series Graph: State Level (West Virginia)

Variable Name: retailtradeavgwklywage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
avg_wkly_wage

Original File(s) Name:
XXXX.q1-q4 44-45 Retail Trade
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Average weekly wage for a given quarter in the retail trade industry in USD ($), inflation was unaccounted for

Variable Values and Coding:

- Integers
- Continuous
- Range (county level): $276 - $638
- Range (state level): $385 – $483

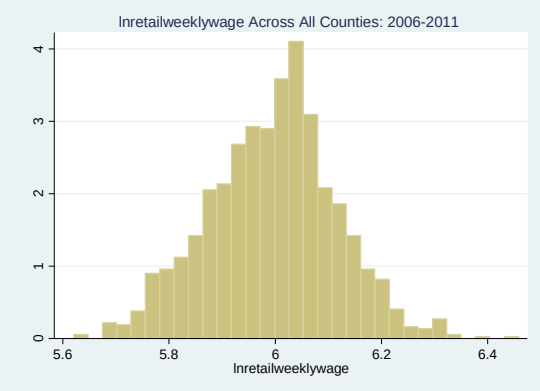
Descriptive Statistics (Across All Counties):
Mean: $404.1281
Median: $404
Standard Deviation: $48.61741
Minimum: $276
Maximum: $638

Descriptive Statistics (Total Kentucky):
Mean: $442.7917
Median: $438
Standard Deviation: $19.03082
Minimum: $412
Maximum: $483

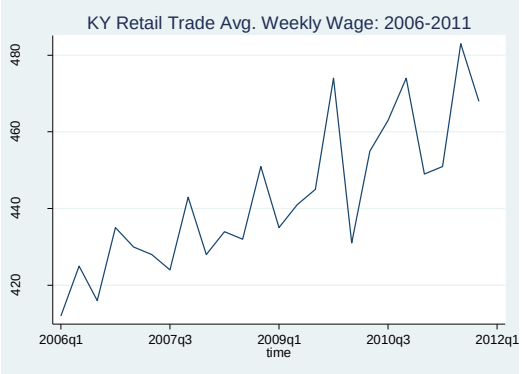
Descriptive Statistics (Total West Virginia):
Mean: $ 425.4583
Median: $422.5
Standard Deviation: $25.07377
Minimum: $385
Maximum: $474

Histogram: County Level (All Counties)

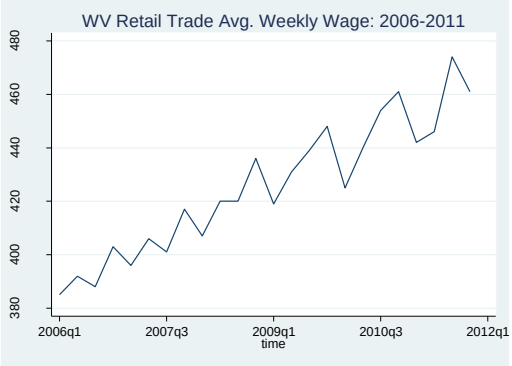
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

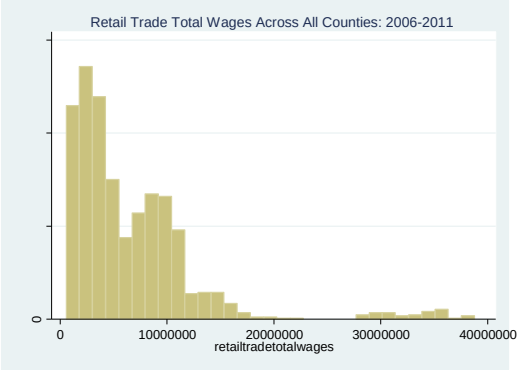


Variable Name: retailtradetotalwages
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 44-45 Retail Trade
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in the retail trade industry in USD ($), inflation was unaccounted for
Variable Values and Coding:

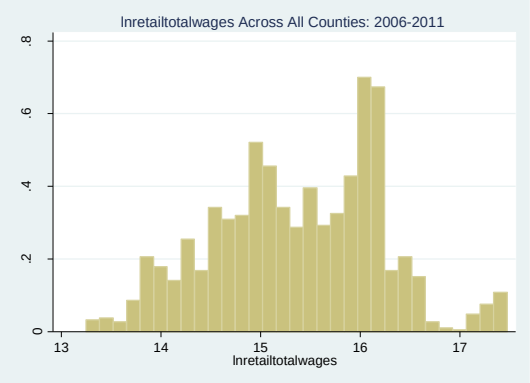
- Integers
- Continuous
- Range (county level): $566,212 – $38,800,000
- Range (state level): $444,000,000 – $1,260,000,000

Descriptive Statistics (Across All Counties):
Mean: $6,664,369
Median: $4,913,550
Standard Deviation: $6,187,395
Minimum: $566,212
Maximum: $38,800,000
Descriptive Statistics (Total Kentucky):
Mean: $1,190,000,000
Median: $1,180,000,000
Standard Deviation: $46,900,000
Minimum: $1,100,000,000
Maximum: $1,260,000,000
Descriptive Statistics (Total West Virginia):
Mean: $491,000,000
Median: $490,000,000
Standard Deviation: $25,600,000
Minimum: $444,000,000
Maximum: $536,000,000

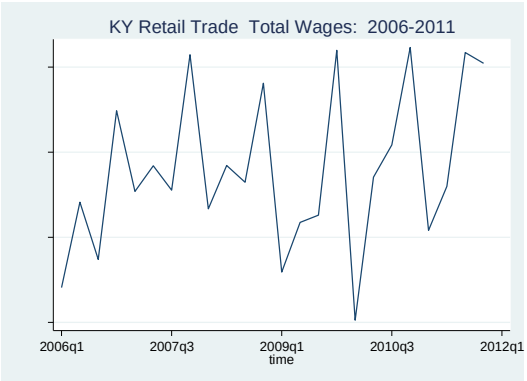
Histogram: County Level (All Counties)



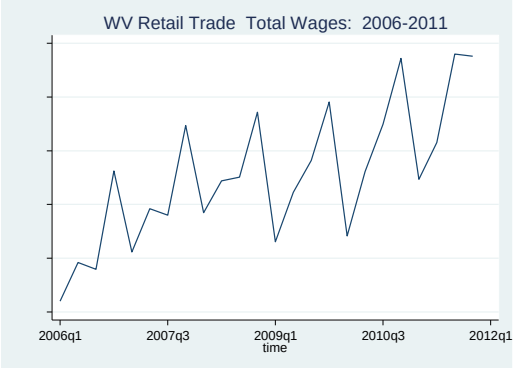
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

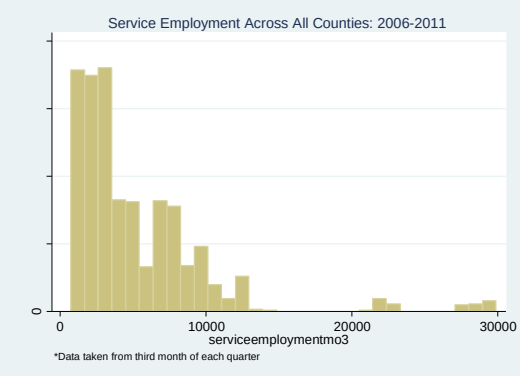


Variable Name: serviceemploymentmo3
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
month3_emplvl
Original File(s) Name:
XXXX.q1-q4 102 Service-providing
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Number of employed people in the service industry in the third month of each quarter
Variable Values and Coding:

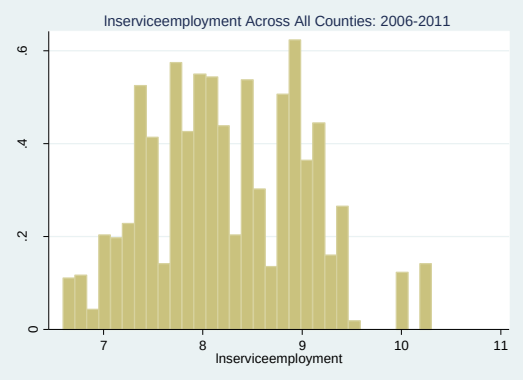
- Integers
- Continuous
- Range (county level): 729 – 29,909
- Range (state level): 429,518– 1,151,116

Descriptive Statistics (Across All Counties):
Mean: 5,217.526
Median: 3,544
Standard Deviation: 4,812.806
Minimum: 729
Maximum: 29,909
Descriptive Statistics (Total Kentucky):
Mean: 1,116,564
Median: 1,120,202
Standard Deviation: 20,419.85
Minimum: 1,076,295
Maximum: 1,151,116
Descriptive Statistics (Total West Virginia):
Mean: 442,005
Median: 442,786
Standard Deviation: 5,605.911
Minimum: 429,518
Maximum: 450,262

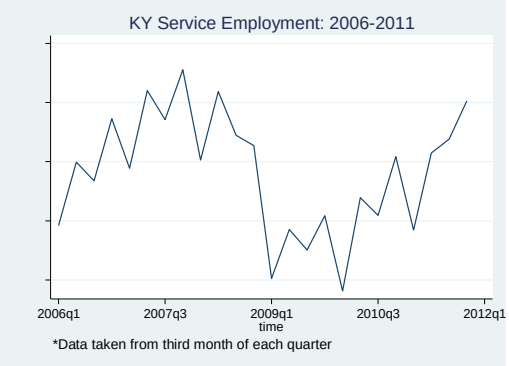
Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

Variable Name: serviceavgwklywage

Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages

Name of Variable in Original Source:
avg_wkly_wage

Original File(s) Name:
XXXX.q1-q4 102 Service-providing
(Where XXXX = 2006 – 2011)

Missing Observations: 0/1,351

Variables Description: Average weekly wage for a given quarter in the service industry in USD ($), inflation was unaccounted for.

Variable Values and Coding:

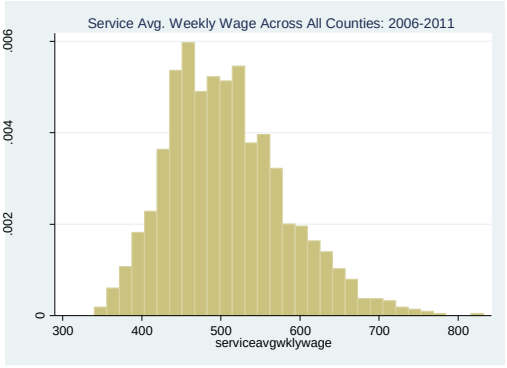
- Integers
- Continuous
- Range (county level): $340 – $832
- Range (state level): $526 – $736

Descriptive Statistics (Across All Counties):
Mean: $508.034
Median: $500
Standard Deviation: $74.67855
Minimum: $340
Maximum: $832

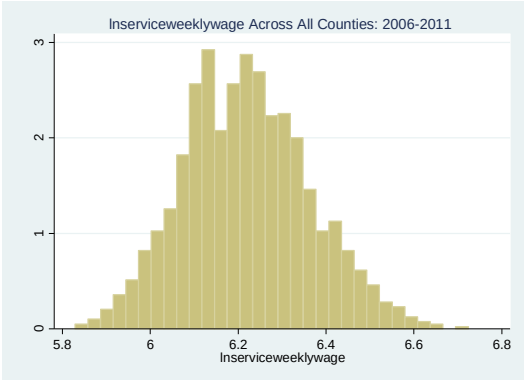
Descriptive Statistics (Total Kentucky):
Mean: $657.875
Median: $655.5
Standard Deviation: $38.5896
Minimum: $ 593
Maximum: $ 736

Descriptive Statistics (Total West Virginia):
Mean: $594.125
Median: $589
Standard Deviation: $41.99618
Minimum: $526
Maximum: $672

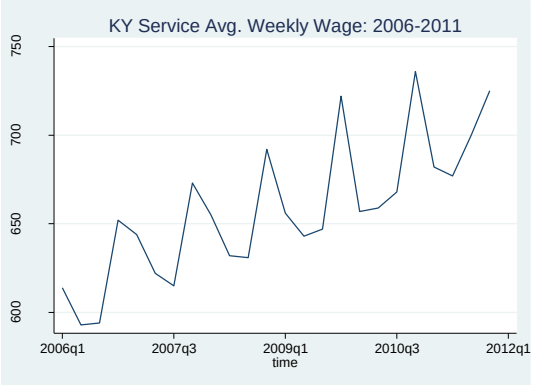
Histogram: County Level (All Counties)



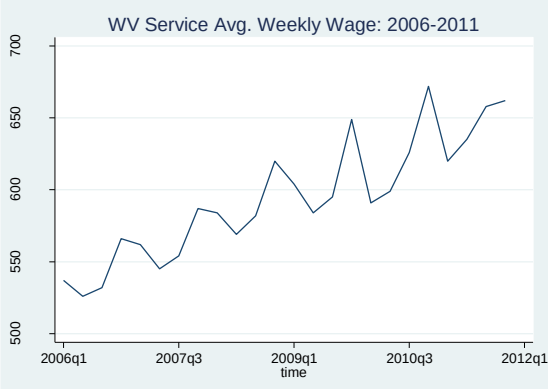
Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

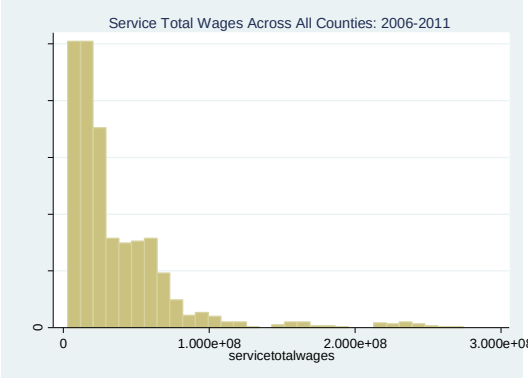


Variable Name: servicetotalwages
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source:
total_qtrly_wage
Original File(s) Name:
XXXX.q1-q4 102 Service-providing
(Where XXXX = 2006 – 2011)
Missing Observations: 0/1,351
Variables Description: Total wages for a given quarter in the service industry in USD ($), inflation was unaccounted for.
Variable Values and Coding:

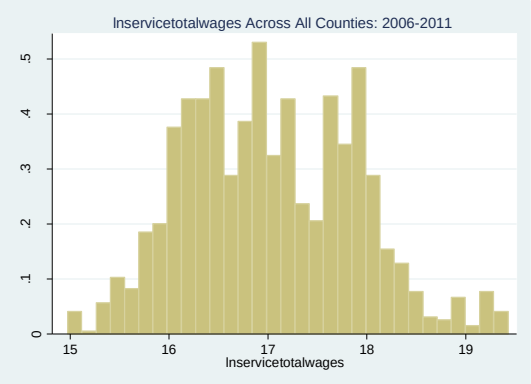
- Integers
- Continuous
- Range (county level): $609,080 – $73,200,000
- Range (state level): $3,000,000,000 – $47,000,000,000

Descriptive Statistics (Across All Counties):
Mean: $36,600,000
Median: $22,900,000
Standard Deviation: $38,800,000
Minimum: $3,186,332
Maximum: $274,000,000
Descriptive Statistics (Total Kentucky):
Mean: $9,510,000,000
Median: $9,400,000,000
Standard Deviation: $589,000,000
Minimum: $8,570,000,000
Maximum: $10,700,000,000
Descriptive Statistics (Total West Virginia):
Mean: $3,340,000,000
Median: $3,390,000,000
Standard Deviation: $255,000,000
Minimum: $3,000,000,000
Maximum: $3,860,000,000

Histogram: County Level (All Counties)



Histogram: Logged County Level (All Counties)



Time Series Graph: State Level (Kentucky)

Time Series Graph: State Level (West Virginia)

Variable Name: percentcoal
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Ratio of total wages from the coal industry and overall wages for each county, created from the formula: $(coaltotalwages)/(allindustriestotalwages)$
Variable Values and Coding:

- Integers
- Continuous
- Range (county level): 0 – .7197076

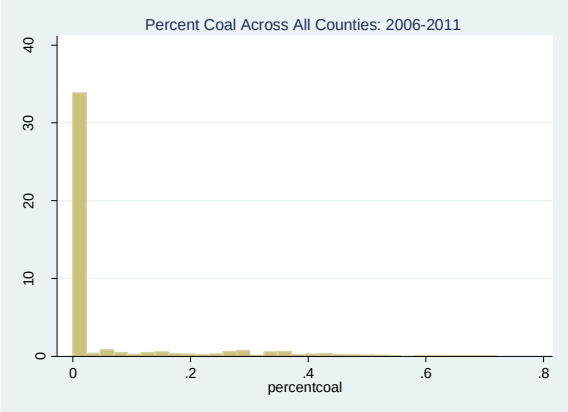
Descriptive Statistics (Including 0):

Mean: .0557627
Median: 0.00
Standard Deviation: .1278941
Minimum: 0.00
Maximum: .7197076

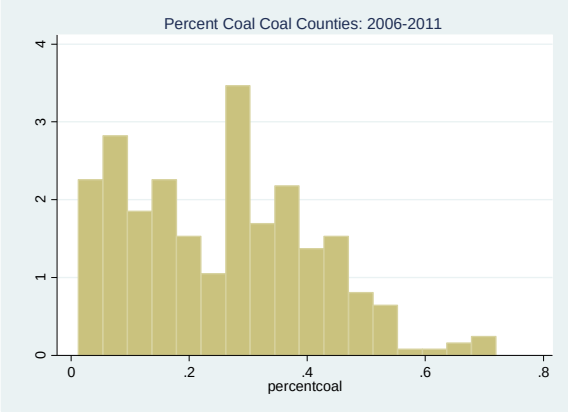
Descriptive Statistics (Not Including 0):

Mean: .2528034
Median: .2626976
Standard Deviation: .1561067
Minimum: .0120196
Maximum: .7197076

Histogram: County Level (All Counties)



Histogram: County Level (Coal Counties)

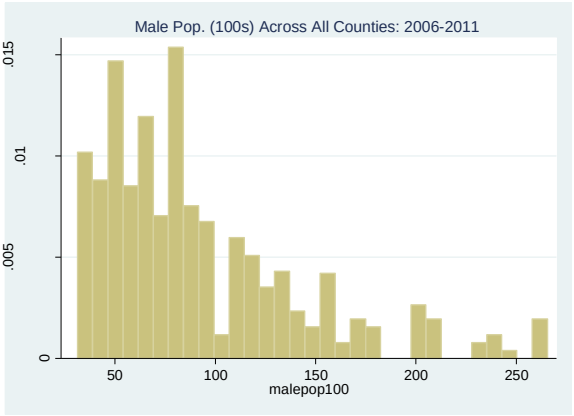


Variable Name: malepop100
Data Source: U.S. Census Bureau: County (State) Intercensal Estimates
Original File Name:
original_census.xlsx
original_census_state.xlsx
Name of Variable in Original Source:
POPESTIMATEXXXX
(Where XXXX = 2006-2011)
*Needed to combine data since it was originally broken into age and gender groups
Missing Observations: 0/1,351
Variables Description: County-level population of males between 20 to 69 years old. Measured in 100s of people and annually
Variable Values and Coding:

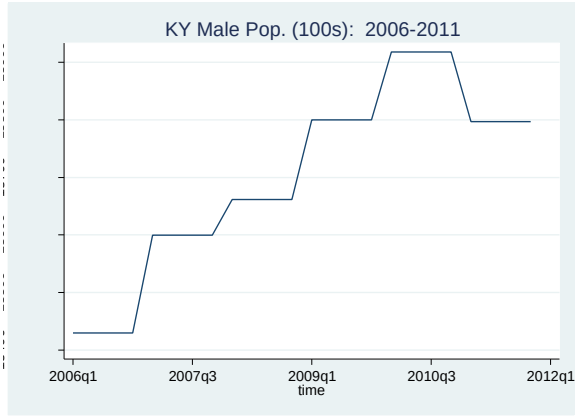
- Integers
- Continuous
- Range (county level): 31.38 – 265.53
- Range (state level): 5,907.16– 13,917.98

Descriptive Statistics (Across All Counties):
Mean: 92.3643
Median: 79.03
Standard Deviation: 50.94837
Minimum: 31.38
Maximum: 265.53
Descriptive Statistics (Total Kentucky):
Mean: 13,700.94
Median: 13,729.19
Standard Deviation: 162.3388
Minimum: 13,429.75
Maximum: 13,917.98
Descriptive Statistics (Total West Virginia):
Mean: 5,982.395
Median: 5,981.04
Standard Deviation: 51.89233
Minimum: 5,907.16
Maximum: 6,043.13

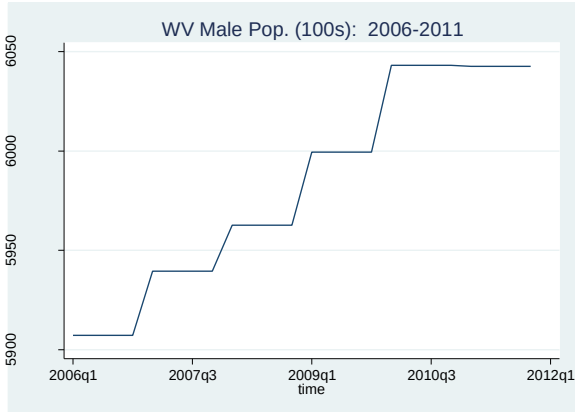
Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

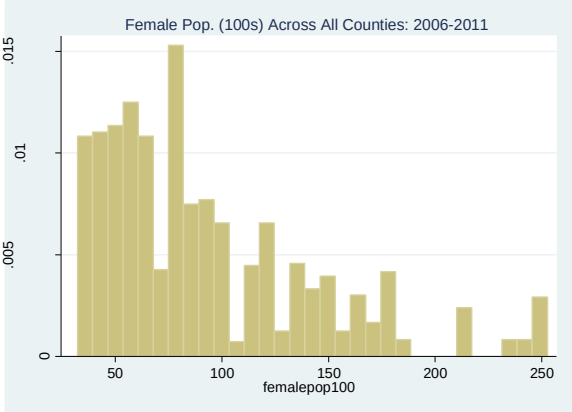


Variable Name: femalepop100
Data Source: U.S. Census Bureau: County (State) Intercensal Estimates
Original File Name:
original_census.xlsx
original_census_state.xlsx
Name of Variable in Original Source:
POPESTIMATEXXXX
(Where XXXX = 2006-2011)
*Needed to combine data since it was originally broken into age and gender groups
Missing Observations: 0/1,351
Variables Description: County-level population of females between 20 to 69 years old. Measured in 100s of people and annually
Variable Values and Coding:

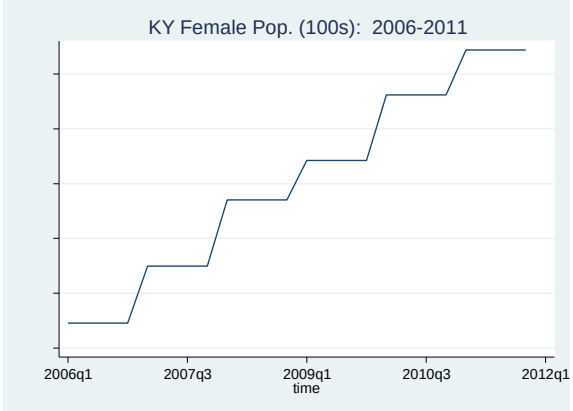
- Integers
- Continuous
- Range (county level): 32.31 – 252.65
- Range (state level): 5960.72– 14243.73

Descriptive Statistics (Across All Counties):
Mean: 93.15657
Median: 79.23
Standard Deviation: 50.77822
Minimum: 32.31
Maximum: 252.65
Descriptive Statistics (Total Kentucky):
Mean: 14,002.23
Median: 14,006.17
Standard Deviation: 174.7492
Minimum: 13,745.81
Maximum: 14,243.73
Descriptive Statistics (Total West Virginia):
Mean: 6,014.735
Median: 6,007.23
Standard Deviation: 42.73586
Minimum: 5,960.72
Maximum: 6,079.01

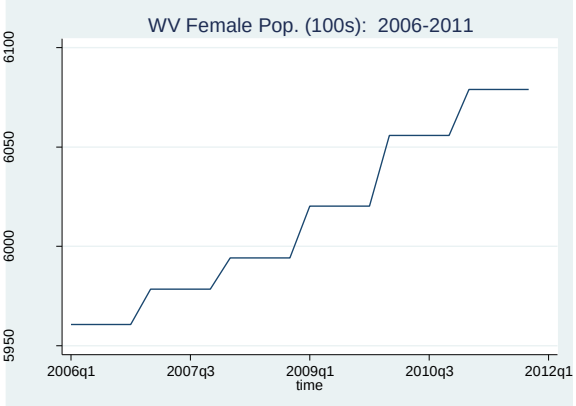
Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)

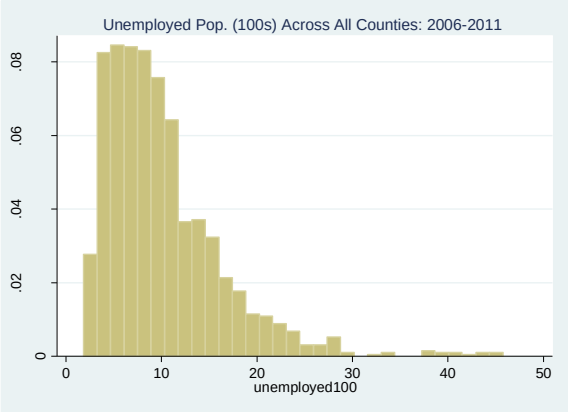


Variable Name: unemployed100
Data Source: Bureau of Labor Statistics: Local Area Unemployed Statistics (LAUS)
Original File Name:
original_WVstateunemployment.xlsx
original_KYstateunemployment.xlsx
original_WVstateunemployment.xlsx
original_KYstateunemployment.xlsx
Name of Variable in Original Source:
VALUE for county-level data
Unemployment for state-level data
Missing Observations: 0/1,351
Variables Description: County-level population of unemployed. Measured in 100s of people and quarterly
Variable Values and Coding:

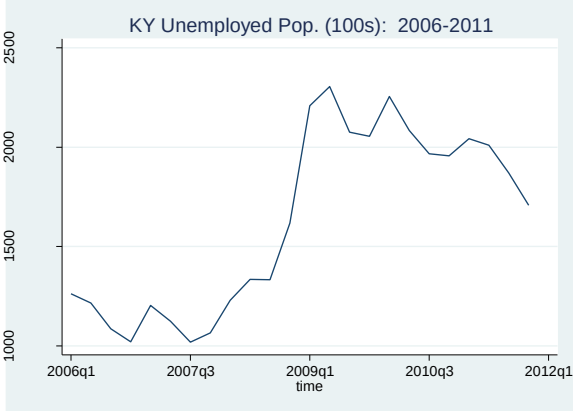
- Integers
- Continuous
- Range (county level): 1.84 – 45.76
- Range (state level): 296.51 – 2,305.48

Descriptive Statistics (Across All Counties):
Mean: 10.17207
Median: 8.79
Standard Deviation: 6.189348
Minimum: 1.84
Maximum: 45.76
Descriptive Statistics (Total Kentucky):
Mean: 1,627.123
Median: 1,663.315
Standard Deviation: 456.9427
Minimum: 1,018.57
Maximum: 2,305.48
Descriptive Statistics (Total West Virginia):
Mean: 516.7929
Median: 512.74
Standard Deviation: 154.285
Minimum: 296.51
Maximum: 748.28

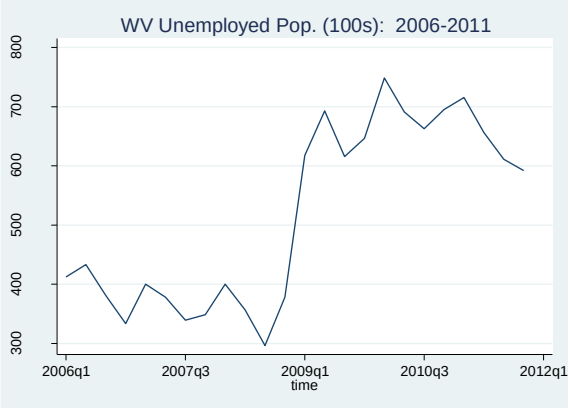
Histogram: County Level (All Counties)



Time Series Graph: State Level (Kentucky)



Time Series Graph: State Level (West Virginia)



Variable Name: area_fips/area_title
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description:

- area_fips: individual code for each county
- area_title: name of county

Variable Values and Coding: Categorical

Area_Title	Area_Fips	Frequency	Percent	Cumulative
Adair County, Kentucky	21001	22	1.63	1.63
Allen County, Kentucky	21003	22	1.63	3.26
Barbour County, West Virginia	21009	16	1.18	4.44
Barren County, Kentucky	21011	24	1.78	6.22
Bath County, Kentucky	21013	8	0.59	6.81
Bell County, Kentucky	21017	11	0.81	7.62
Bourbon County, Kentucky	21021	24	1.78	9.4
Boyle County, Kentucky	21027	16	1.18	10.58
Breckinridge County, Kentucky	21029	24	1.78	12.36
Bullitt County, Kentucky	21033	24	1.78	14.14
Caldwell County, Kentucky	21035	20	1.48	15.62
Calloway County, Kentucky	21041	24	1.78	17.39
Carroll County, Kentucky	21045	23	1.7	19.1
Casey County, Kentucky	21049	20	1.48	20.58
Clark County, Kentucky	21051	12	0.89	21.47
Clay County, Kentucky	21061	15	1.11	22.58
Edmonson County, Kentucky	21065	2	0.15	22.72
Estill County, Kentucky	21069	2	0.15	22.87
Fayette County, West Virginia	21073	22	1.63	24.5
Fleming County, Kentucky	21079	24	1.78	26.28
Franklin County, Kentucky	21081	21	1.55	27.83
Garrard County, Kentucky	21083	11	0.81	28.65
Grant County, Kentucky	21085	4	0.3	28.94
Graves County, Kentucky	21087	24	1.78	30.72
Grayson County, Kentucky	21089	24	1.78	32.49
Green County, Kentucky	21095	10	0.74	33.23
Greenbrier County, West Virginia	21097	7	0.52	33.75
Greenup County, Kentucky	21099	23	1.7	35.46
Hampshire County, West Virginia	21103	24	1.78	37.23
Hancock County, West Virginia	21113	9	0.67	37.9
Harlan County, Kentucky	21115	6	0.44	38.34

Area_Title	Area_Fips	Frequency	Percent	Cumulative
Harrison County, Kentucky	21119	7	0.52	38.86
Hart County, Kentucky	21123	8	0.59	39.45
Henry County, Kentucky	21133	24	1.78	41.23
Jackson County, West Virginia	21137	24	1.78	43.01
Jefferson County, West Virginia	21145	24	1.78	44.78
Jessamine County, Kentucky	21155	16	1.18	45.97
Johnson County, Kentucky	21157	19	1.41	47.37
Knott County, Kentucky	21163	7	0.52	47.89
Larue County, Kentucky	21167	22	1.63	49.52
Letcher County, Kentucky	21169	24	1.78	51.3
Lincoln County, Kentucky	21171	16	1.18	52.48
Logan County, West Virginia	21173	24	1.78	54.26
Marion County, Kentucky	21177	24	1.78	56.03
Marshall County, Kentucky	21179	14	1.04	57.07
McCracken County, Kentucky	21185	23	1.7	58.77
McDowell County, West Virginia	21193	8	0.59	59.36
Meade County, Kentucky	21209	24	1.78	61.14
Mercer County, Kentucky	21211	24	1.78	62.92
Metcalfe County, Kentucky	21213	7	0.52	63.43
Mingo County, West Virginia	21215	11	0.81	64.25
Monroe County, Kentucky	21217	24	1.78	66.03
Montgomery County, Kentucky	21221	16	1.18	67.21
Morgan County, West Virginia	21225	2	0.15	67.36
Muhlenberg County, Kentucky	21229	12	0.89	68.25
Nelson County, Kentucky	21231	24	1.78	70.02
Nicholas County, West Virginia	21239	24	1.78	71.8
Oldham County, Kentucky	54001	24	1.78	73.58
Perry County, Kentucky	54019	22	1.63	75.2
Preston County, West Virginia	54025	7	0.52	75.72
Putnam County, West Virginia	54027	20	1.48	77.2
Raleigh County, West Virginia	54029	20	1.48	78.68
Ritchie County, West Virginia	54035	24	1.78	80.46
Roane County, West Virginia	54037	24	1.78	82.24
Scott County, Kentucky	54045	24	1.78	84.01
Shelby County, Kentucky	54047	24	1.78	85.79
Simpson County, Kentucky	54059	24	1.78	87.56
Spencer County, Kentucky	54065	14	1.04	88.6
Taylor County, Kentucky	54067	13	0.96	89.56
Trigg County, Kentucky	54077	24	1.78	91.34
Union County, Kentucky	54079	16	1.18	92.52

Area_Title	Area_Fips	Frequency	Percent	Cumulative
Upshur County, West Virginia	54081	14	1.04	93.56
Washington County, Kentucky	54085	6	0.44	94
Wayne County, Kentucky	54087	24	1.78	95.78
Wetzel County, West Virginia	54097	24	1.78	97.56
Woodford County, Kentucky	54103	20	1.48	99.04
Wyoming County, West Virginia	54109	13	0.96	100
Total	-	1,351	100	-

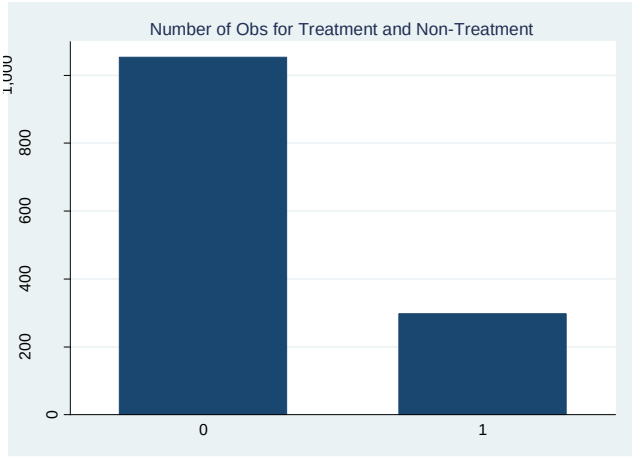
Variable Name: time
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Categorical variable for each quarter in the data
Variable Values and Coding: Categorical

Time	Frequency	Percent	Cumulative
2006q1	52	3.85	3.85
2006q2	56	4.15	7.99
2006q3	55	4.07	12.07
2006q4	53	3.92	15.99
2007q1	59	4.37	20.36
2007q2	60	4.44	24.8
2007q3	60	4.44	29.24
2007q4	57	4.22	33.46
2008q1	61	4.52	37.97
2008q2	62	4.59	42.56
2008q3	62	4.59	47.15
2008q4	63	4.66	51.81
2009q1	55	4.07	55.88
2009q2	56	4.15	60.03
2009q3	60	4.44	64.47
2009q4	51	3.77	68.25
2010q1	56	4.15	72.39
2010q2	58	4.29	76.68
2010q3	57	4.22	80.9
2010q4	52	3.85	84.75
2011q1	51	3.77	88.53
2011q2	50	3.7	92.23
2011q3	54	4	96.23
2011q4	51	3.77	100
Total	1351	100	-

Variable Name: treatment
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the county is a high producing coal county, based on the county's percentcoal
Variable Values and Coding: Binary
0: Not Treatment (percentcoal < .05)
1: Treatment (percentcoal ≥ .05)

Treatment	Frequency	Percent	Cumulative
0	1,053	77.94	77.94
1	298	22.06	100.00
Total	1,351	100.00	

Bar Graph:

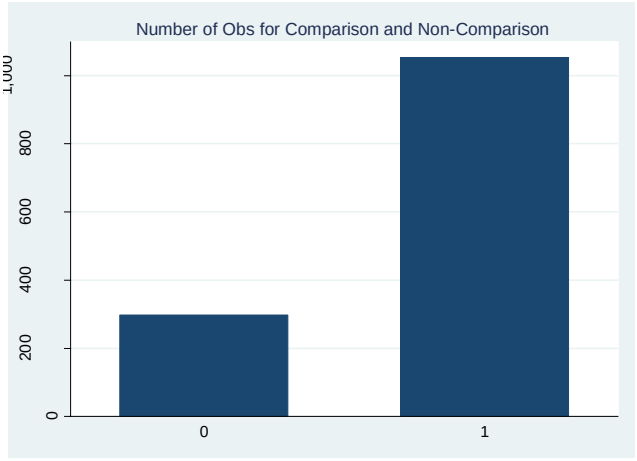


Variable Name: comparison
Data Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the county is a non-coal producing county and has a similar population as treatment counties, based on 2006 population levels
Variable Values and Coding: Binary

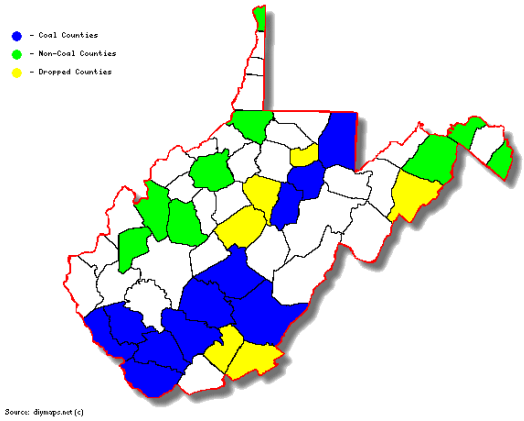
0: Not Treatment (percentcoal > .00 or population ≥ 80,000 or population ≤ 10,000)
1: Treatment (percentcoal = .00 and population is between 10,000 and 80,000)

Comparison	Frequency	Percent	Cumulative
0	298	22.06	22.06
1	1,053	77.94	100.00
Total	1,351	100.00	

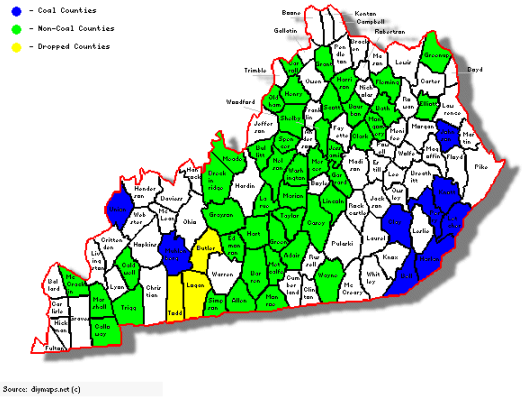
Bar Graph:



Treatment and Comparison Counties (West Virginia):



Treatment and Comparison Counties (Kentucky):

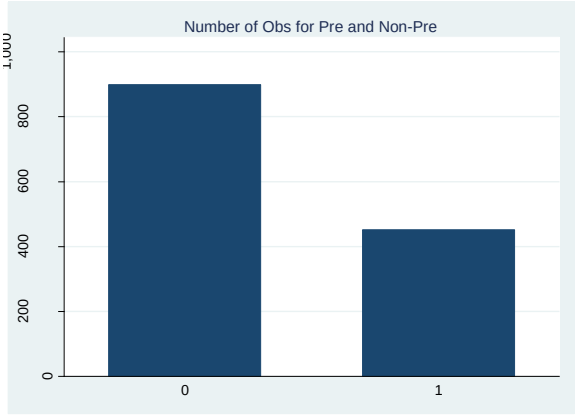


Variable Name: pre
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is from before the boom or not
Variable Values and Coding: Binary

0: Not Before the Boom (Quarter ≥ 9)
1: Before the Boom (Quarter ≤ 8)

Pre	Frequency	Percent	Cumulative
0	899	66.54	66.54
1	452	33.46	100.00
Total	1,351	100.00	

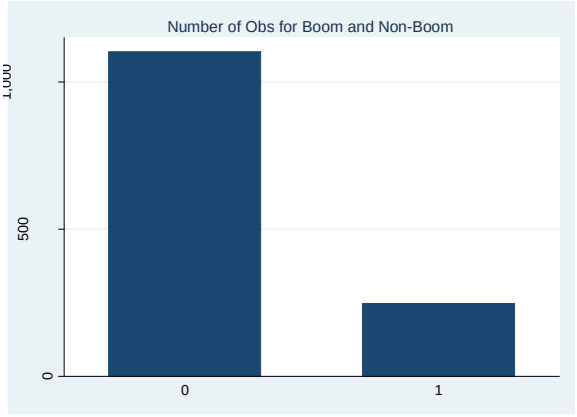
Bar Graph:



Variable Name: boom
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is during the boom or not
Variable Values and Coding: Binary
0: Not During the Boom
(8 ≥ Quarter ≥ 13)
1: During the Boom
(9 ≤ Quarter ≤ 12)

Boom	Frequency	Percent	Cumulative
0	1,073	79.42	79.42
1	278	20.58	100.00
Total	1,351	100.00	

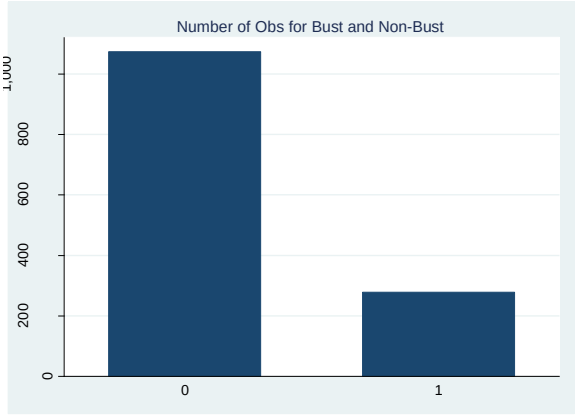
Bar Graph:



Variable Name: bust
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is during the bust or not
Variable Values and Coding: Binary
0: Not During the Bust
(12 ≥ Quarter ≥ 18)
1: During the Bust
(13 ≤ Quarter ≤ 17)

Bust	Frequency	Percent	Cumulative
0	1,073	79.42	79.42
1	278	20.58	100.00
Total	1,351	100.00	

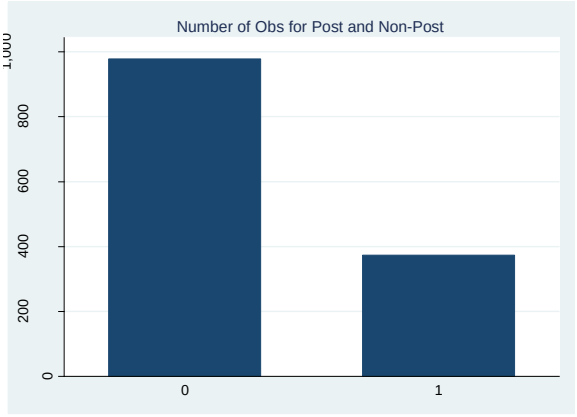
Bar Graph:



Variable Name: post
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is after the bust or not
Variable Values and Coding: Binary
0: Not After the Bust
(Quarter ≤ 17)
1: After the Bust
(Quarter ≥ 18)

Post	Frequency	Percent	Cumulative
0	978	72.39	72.39
1	373	27.61	100.00
Total	1,351	100.00	

Bar Graph:

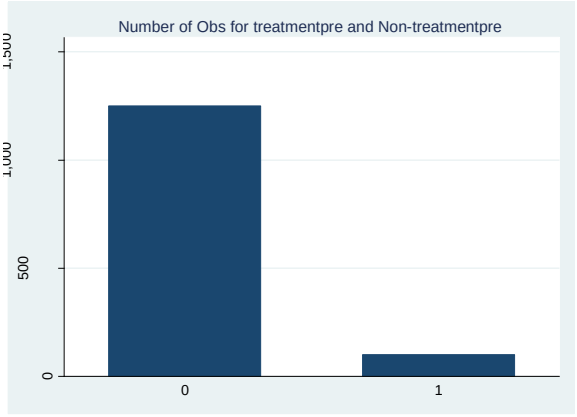


Variable Name: treatmentpre
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating for the interaction between the treatment group and the pre time group
Variable Values and Coding: Binary

0: Not a Treatment County in Pre (Treatment and/or Pre = 0)
1: Treatment County in Pre (Treatment = 1 & Pre = 1)

treatmentpre	Frequency	Percent	Cumulative
0	1,250	92.52	92.52
1	101	7.48	100.00
Total	1,351	100.00	

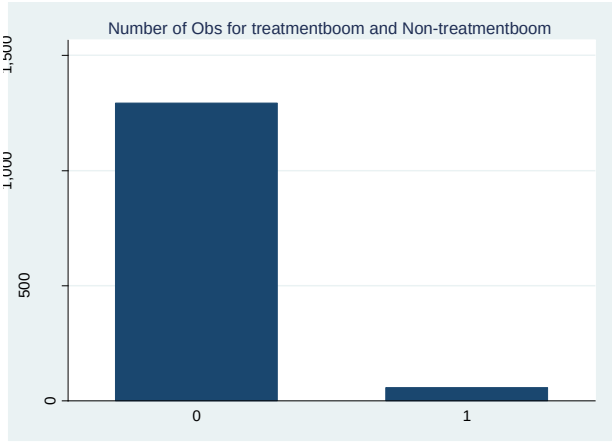
Bar Graph:



Variable Name: treatmentboom
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating for the interaction between the treatment group and the boom time group
Variable Values and Coding: Binary
0: Not a Treatment County in Boom (Treatment and/or Boom = 0)
1: Treatment County in Boom (Treatment = 1 & Boom = 1)

treatmentboom	Frequency	Percent	Cumulative
0	1,293	95.71	95.71
1	58	4.29	100.00
Total	1,351	100.00	

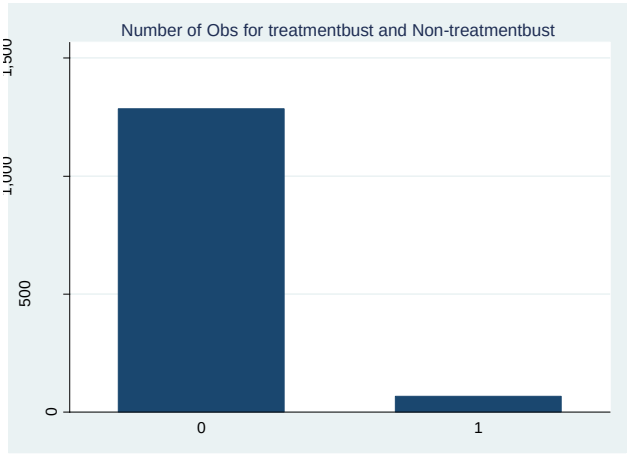
Bar Graph:



Variable Name: treatmentbust
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating for the interaction between the treatment group and the bust time group
Variable Values and Coding: Binary
0: Not a Treatment County in Bust (Treatment and/or Bust = 0)
1: Treatment County in Bust (Treatment = 1 & Bust = 1)

treatmentbust	Frequency	Percent	Cumulative
0	1,284	95.04	95.04
1	67	4.96	100.00
Total	1,351	100.00	

Bar Graph:

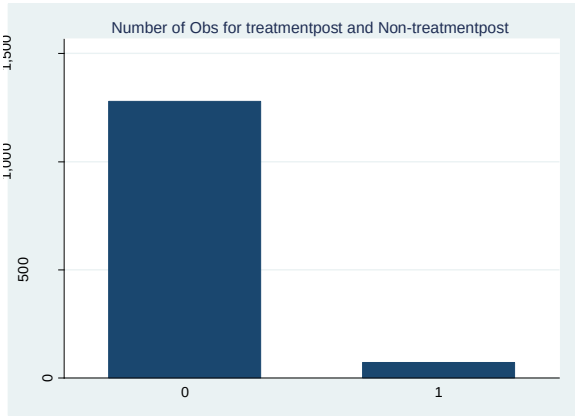


Variable Name: treatmentpost
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating for the interaction between the treatment group and the post time group
Variable Values and Coding: Binary

0: Not a Treatment County in Post (Treatment and/or Post = 0)
1: Treatment County in Post (Treatment = 1 & Post = 1)

treatmentpost	Frequency	Percent	Cumulative
0	1,279	94.67	94.67
1	72	5.33	100.00
Total	1,351	100.00	

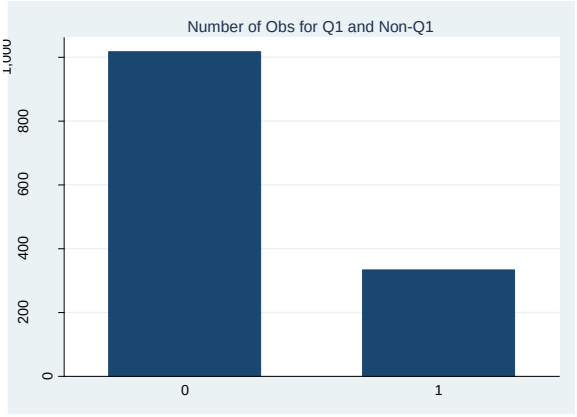
Bar Graph:



Variable Name: Q1
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is in the first quarter of the year or not
Variable Values and Coding: Binary
0: Not in Q1 (qtr = 2,3,4)
1: In Q1 (qtr = 1)

Q1	Frequency	Percent	Cumulative
0	1,017	75.28	75.28
1	334	24.72	100.00
Total	1,351	100.00	

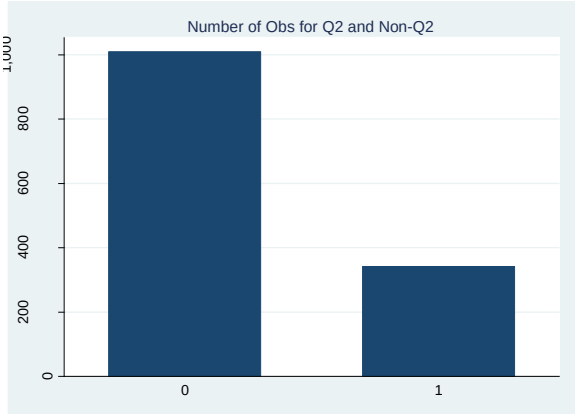
Bar Graph:



Variable Name: Q2
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is in the second quarter of the year or not
Variable Values and Coding: Binary
0: Not in Q2 (qtr = 1,3,4)
1: In Q2 (qtr = 2)

Q2	Frequency	Percent	Cumulative
0	1,003	74.24	74.24
1	348	25.76	100.00
Total	1,351	100.00	

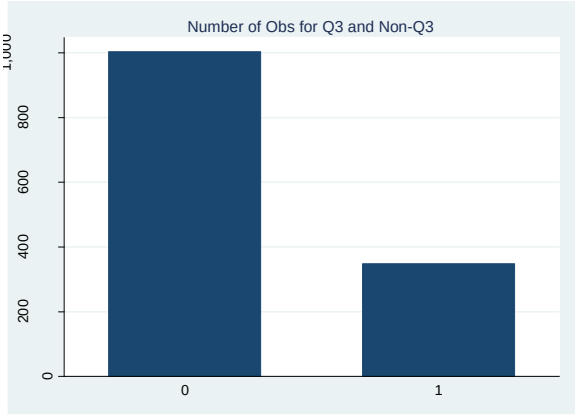
Bar Graph:



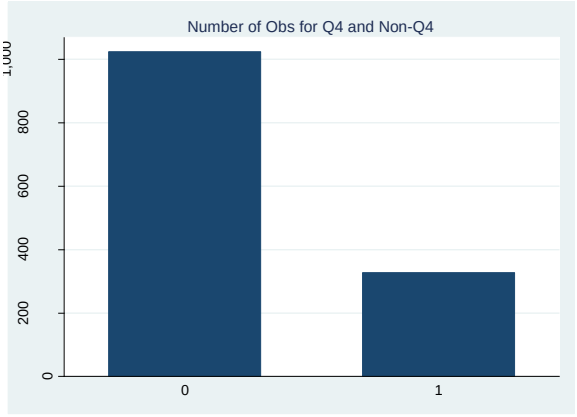
Variable Name: Q3
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is in the third quarter of the year or not
Variable Values and Coding: Binary
0: Not in Q3 (qtr = 1,2,4)
1: In Q3 (qtr = 3)

Q3	Frequency	Percent	Cumulative
0	1,003	74.24	74.24
1	348	25.76	100.00
Total	1,351	100.00	

Bar Graph:



Variable Name: Q4
Data Source: N/A
Name of Variable in Original Source: N/A
Missing Observations: 0/1,351
Variables Description: Dummy variable indicating whether the observation is in the fourth quarter of the year or not
Variable Values and Coding: Binary
0: Not in Q4 (qtr = 1,2,3)
1: In Q4 (qtr = 4)

Pre	Frequency	Percent	Cumulative
0	1,024	75.80	75.80
1	327	24.20	100.00
Total	1,351	100.00	

Bar Graph: