Data Analysis & Decision Modeling

Effect of Minimum Wage on Employment

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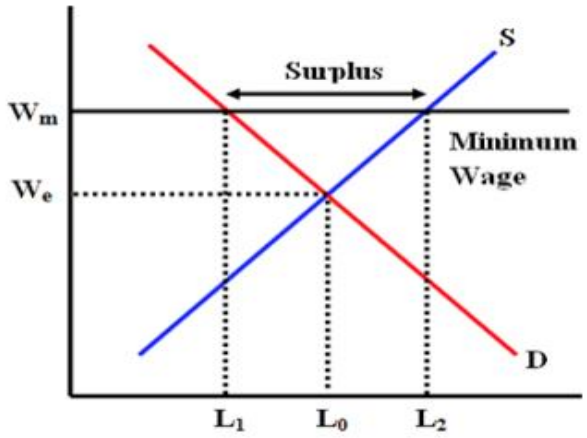
TABLE OF CONTENTS

1 Introduction

"Do-Gooders believe passing a law saying nobody shall get less than [a minimum wage] is helping poor people (who need the money). You're doing nothing of the kind. What you're doing is to ensure that people whose skills do not justify that wage will be unemployed."

- Milton Friedman (Nobel Laureate in Economic Sciences)

In a perfect world, the invention of minimum wage would have decreased poverty. After all, the goal of the minimum wage is to make sure everyone has a livable wage. But just like everything else in this world, every good thing comes with a cost. Research has shown mixed results in whether minimum wage has a positive or negative effect on employment. In the figure below, there is a relationship between minimum wage, supply, and demand. The diagram indicates that when the minimum wage is higher than the equilibrium wage (Wm), the labor supplied will also increase (L2). The demand on the other hand will lower to make up for the raised wage rate. Theoretically speaking, this can potentially lead to unemployment because this minimum wage is greater than the equilibrium wage. In a study that was done in 1982, Brown, Curtis, Gilroy, and Kohen found that a 10 percent increase in the minimum wage would decrease the employment of teenagers by a whopping 1 to 3 percent (brown et al., 1982).



Other studies suggest that minimum wage has had nothing but a positive effect on employment and that these studies suggesting otherwise failed to take other factors into consideration. They feel that if the wages are increased, workers would feel motivated to work and make a living. After all, productivity is another factor that can shift the supply curve from left to right.

2 Goal

Regardless of the puzzle around this problem , in almost all 50 states, the minimum wage has consistently increased throughout the years. Armed with the knowledge we learned in this course, we decided to do some analysis ourselves on this debate of whether increase in minimum wage has an undesired effect on employment. We will look to the see effects this has on specific groups of people of different race, gender, and age.

3 Data Sources

Our data sources were:

- https://www.dol.gov/whd/state/stateMinWageHis.htm,
- http://www.bls.gov/lau/ex14tables.htm

We gathered the average overall employment rate, GSP, minimum wage, employment rate for the black population, white population, teens(16-19), young adults (20-24), adults (25-34) older adults (45-54), and men and women. We organized the data by state (A-Z) and by year from year 2000 to year 2015.

4 Forms of Analysis Applied

We performed different forms of analysis learned throughout the course such as pivot tables, bar graphs, averages, forecasting and regression. Each analysis will show a different view of approaching the research question. Ultimately the regression will directly address our research question. The other forms of analyses will supplement the findings found from conducting the regression.

5 Results of Analysis

5.1 Preliminary Analysis Report

We computed the average employment rate and and minimum wage across the 50 states for every year, for the years 2000-2015. Inputting this result into a chart showed that although minimum wage has increased in the past 15 years, the employment rate has steadily declined. We also found a negative correlation of -0.929. Running a simple linear regression over this averaged data using minimum wage as the independent variable from which the employment rate is predicted, showed us that the relationship between the variables is linear and that the errors are independently and identically normally distributed. However, this model does not take into account factors such as GSP Per Capita (Gross State Product Per Capita) provided in our dataset. We decide to do further analyze the data set and run regressions with individual data points , taking into account the other variables such as GSP, before drawing a conclusion.

5.2 Detailed Analysis Report

5.2.1 Correlation

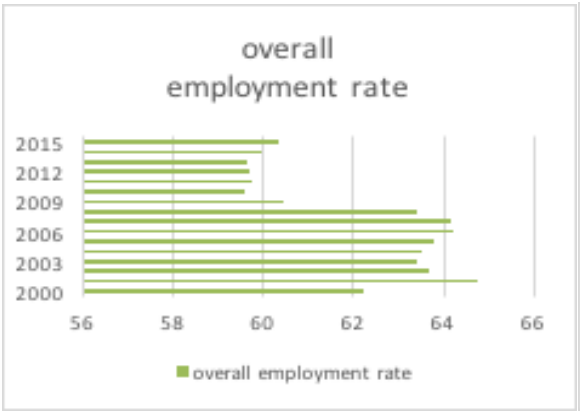
When comparing the employment to the minimum wage, all groups showed a negative correlation. This means that for each and every group, as long as the minimum wage goes up, employment rate goes don.

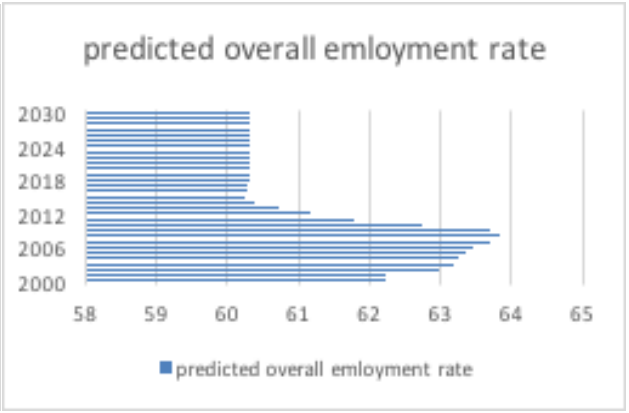
Category	Value of r	Strength of relationship
white	**-0.366**	**moderate**
black	**-0.08**	**weak**
men	**-0.458**	**moderate**
women	**-0.232**	**weak**

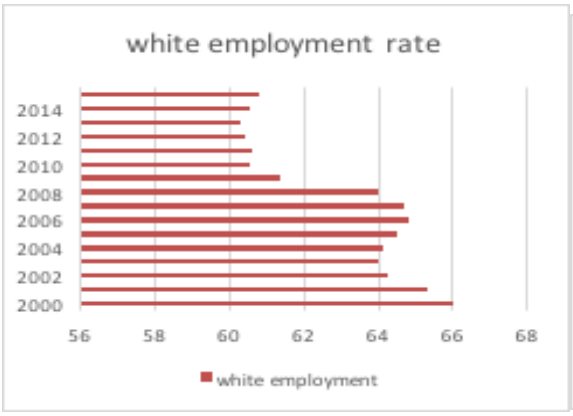
16-19 yrs	**-0.51**	**strong**
20-24 yrs	**-0.415**	**moderate**
25-34 yrs	**-0.375**	**weak**
45-54 yrs	**0.284**	**weak**

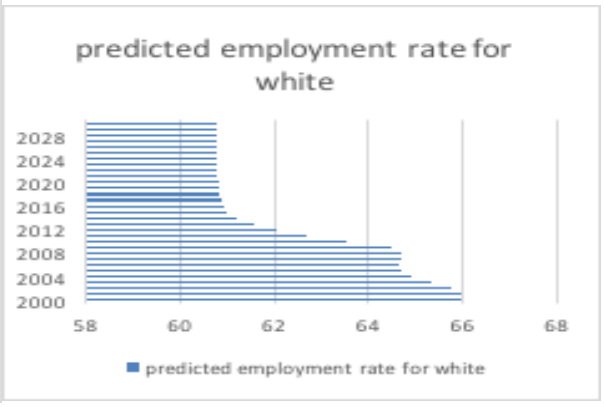
5.2.2 Bar Graphs

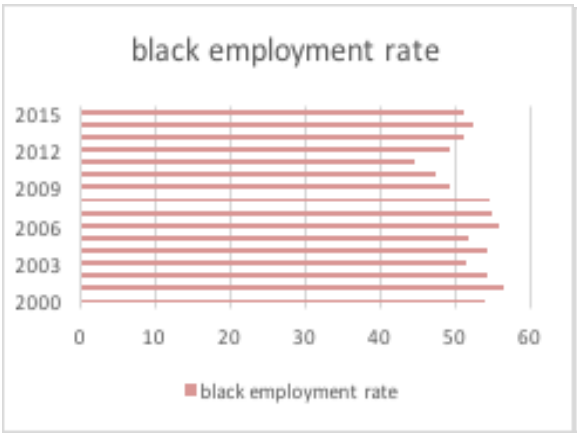
We created bar graphs to represent employment rate from year 2000-2015. Each of the bars represent the average employment of whatever population we are representing for that particular year. We found that all the graphs show an overall decreasing trend suggesting that as the minimum wage increased, the employment rate for all groups of people also decreased. So not only is this impact visible on that of teenagers, but this impact is also evident in all other groups of people. Interestingly however, the black population employment rate remained relatively stagnant (compared to its other counterparts) regardless of the increase in the minimum wage.

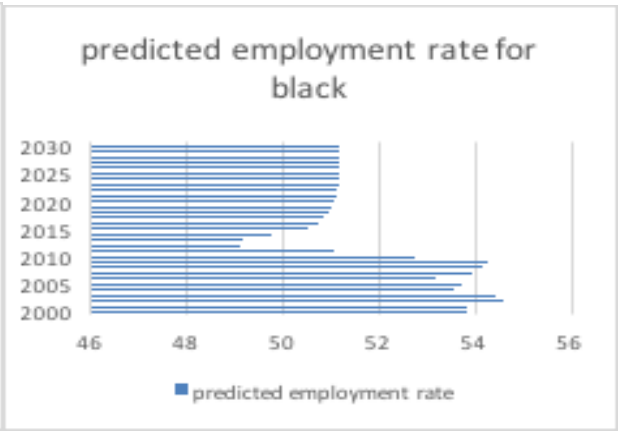


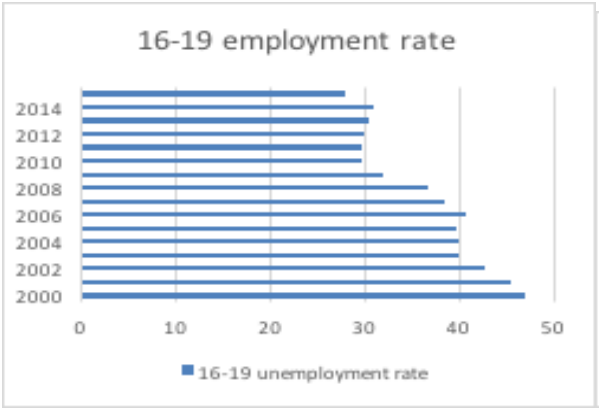


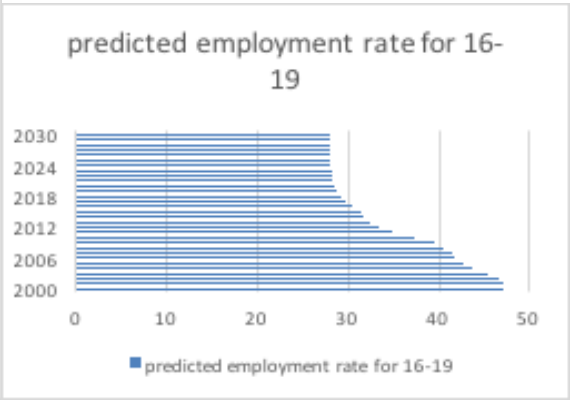


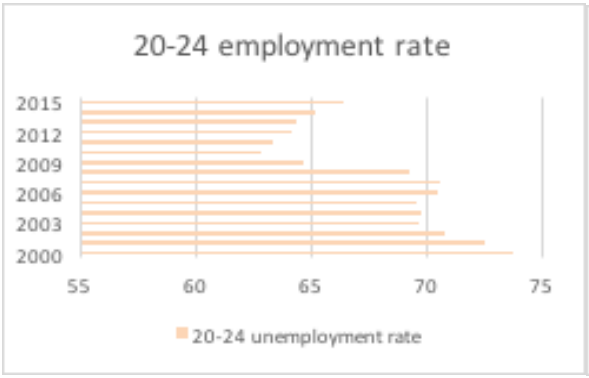


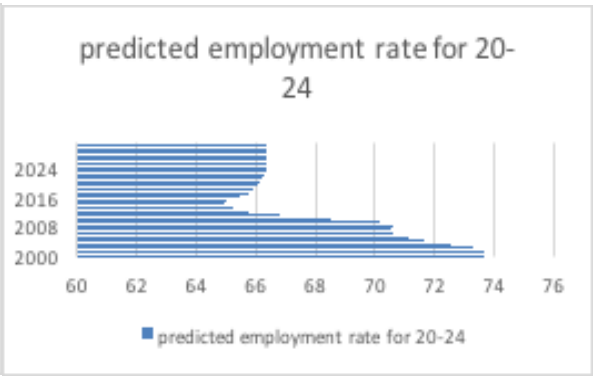

black employment rate
2015
2012
2009
2006
2003
2000
0
10
20
30
40
50
60
black employment rate

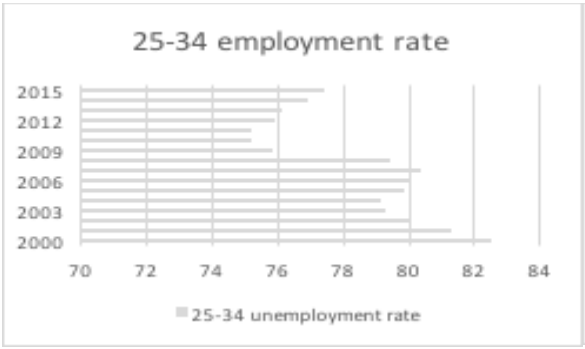

predicted employment rate for black
2030
2025
2020
2015
2010
2005
2000
46
48
50
52
54
56
predicted employment rate

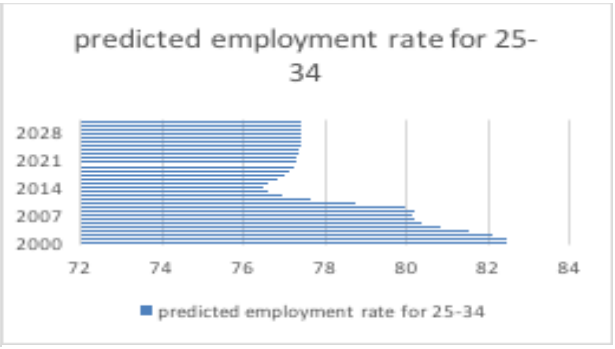

16-19 employment rate
2014
2012
2010
2008
2006
2004
2002
2000
0
10
20
30
40
50
16-19 unemployment rate

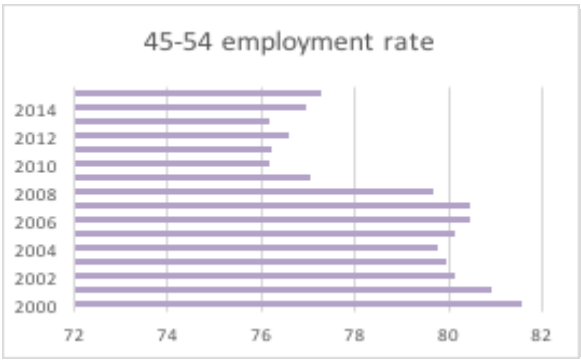

predicted employment rate for 16-19
2030
2024
2018
2012
2006
2000
0
10
20
30
40
50
predicted employment rate for 16-19

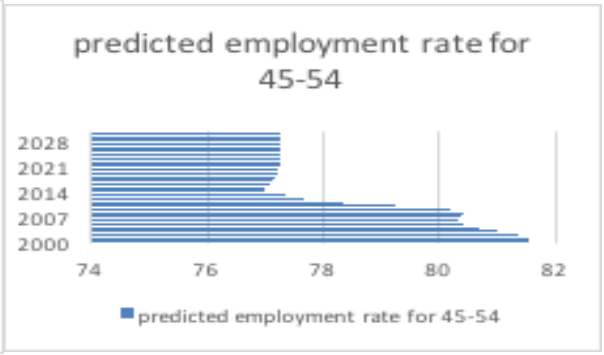

20-24 employment rate
2015
2012
2009
2006
2003
2000
55
60
65
70
75
20-24 unemployment rate

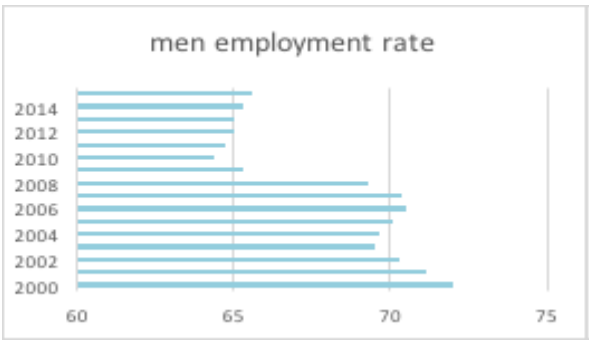

predicted employment rate for 20-24
2024
2016
2008
2000
60
62
64
66
68
70
72
74
76
predicted employment rate for 20-24

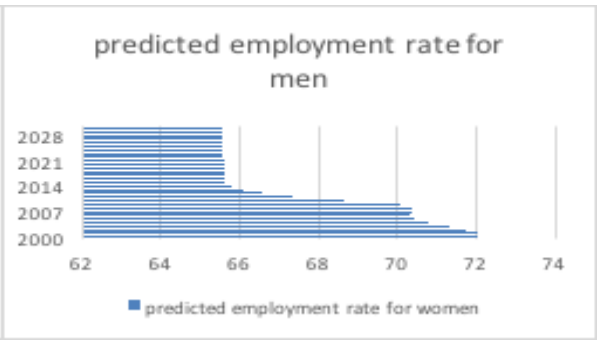

25-34 employment rate
2015
2012
2009
2006
2003
2000
70
72
74
76
78
80
82
84
25-34 unemployment rate

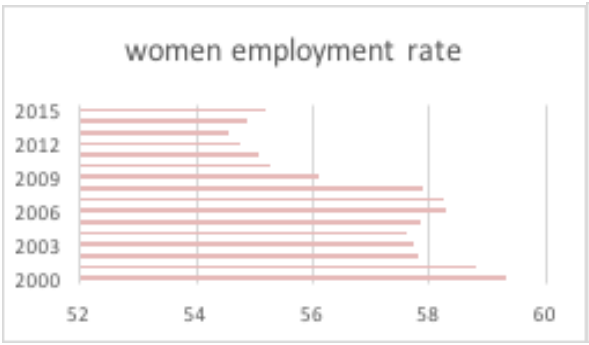

predicted employment rate for 25-34
2028
2021
2014
2007
2000
72
74
76
78
80
82
84
predicted employment rate for 25-34

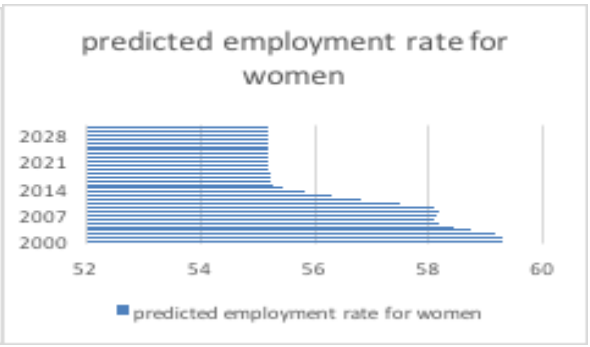












5.2.3 z-score and means

We conducted z tests comparing the men and men population, the black and white population, and the different age groups to see if there was a significant difference between the groups. We compared white vs black, men vs women, 25-34 year olds vs 45-54 year olds, 20-24 year olds vs 45-54 year olds, 20-24 year olds vs 45-54 year olds, 20-24 year olds vs 25-34 year olds, 16-19 year olds vs 45-54 year olds, and 16-19 year olds vs 20-24 year olds. We set the alpha level to 0.5 and found that for all the population beings compared were significantly different from each other with the exception of 25-34 year olds vs 45-54 year olds. This also affirms the theory that the employment rate of 16-19 year olds are affected the most.

When we look at the average decrease in employment rate from year 2000 to year 2015, the overall employment rate decreased by 1.9 percent, the white employment rate

decreased about 5.2 percent, the black employment rate decreased by 2.64 percent, 16-19 year olds decreased by a shocking 19.1percent, 25-34 year olds decreased by 7.3 percent, 25-34 year olds decreased about 5.1 percent, 45-54 year olds decreased by 4.3 percent, the male population decreased about 6.5 percent, and the female population decreased about 4.12 percent. Even when we look at the averages, we see that teenagers have more than three times the amount of decrease in employment rate when compared to most of the other populations. We also can see that that the 20-24 year olds and men have the second and third largest decrease in employment rates respectively. From this analysis, we can see that age has the largest impact on employment rates when it comes to the increase of minimum wage.

5.2.4 Forecasting

Minimum wage seems to have a harmful effect on employment rate for all populations. But what effect would it have on the future employment rate? When we created additional graphs to analyze the predicted employment rate from year 2000-2030, we found interesting results as well. When we look at the predicted overall employment graph, we see that the employment rate actually slightly increases from year 2016 to 2030. Even though the increase is negligible, we see a similar increase in the predicted employment rate for the black population, the 20-24 year old population, the 25-34 year old population and the 45-54 year old population. We also see a negligible decrease from the year 2016 to 2030 for the white population, black population and 16-19 year old population. These forecasted results might show that in the long run, not only would 16-19 year of olds have an increase in unemployment, but the black population and white population might also suffer . Even though the minor increase in employment rate for all populations is evident in these forecasted graphs, the increase is still so small that it would take decades to reach the same employment rate as that of year 2000-2010. Increasing the minimum wage thus still does not seem to have too much of a positive effect on the employment rate, even for those who seem to slightly benefit from it in the long run. The cost of increasing the minimum wage still appears to outweigh the benefits.

5.2.5 Pivot tables

We used pivot table to average all the 15 years and then find which state has the lowest and highest percentage of employment, we found that Nebraska and North Dakota have the highest employment 69.89% and 69.94% respectively and Mississippi and West Virginia have the lowest employment 55.02% and 51.79% respectively.

We also use pivot table to average all the employment among 50 states and then find which year has the highest and lowest employment, we found that in the year of 2000 have the highest percentage of employment 65.98% and year 2013 has the lowest percentage of employment 60.32.

5.2.6 Regression

Our regression model:

Y = Bo + b1(Minimum Wage) + b2(GSP Per Capita) + Si + Ti

GSP Per Capita: Gross State Product Per Capita

Si: dummy variables for states (49 dummy variables as we have 50 states in our data)

Ti: dummy variables fro time (our data run from 2000-2015 so we have 14 dummy variables)

We ran 9 regressions:

1. Percentage of population = bo + b1(Minimum Wage) + b2(GSP Per Capita) + Si + Ti
2. Percentage of White = bo + b1(Minimum Wage) + b2(GSP Per Capita) + Si + Ti
3. Percentage of Black = bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
4. Percentage of Men = bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
5. Percentage of Women = bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
6. Percentage of age(16-19) = bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
7. Percentage of age(20-24= bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
8. Percentage of age(25-34= bo + b1(Minimum Wage) + b2 (GSP Per Capita) + Si + Ti
9. Percentage of age(45-54 = bo + b1(Minimum Wage) + b2(GSP Per Capita) + Si + Ti

For our first regression, we use the entire percentage of employment as our dependent variable and we found the coefficient of the Minimum Wage to be 0.149 and p-value to be 0.062, so at 5% significant level we consider this to be not statistically significant therefore we conclude that we don't have any evidence to show that Minimum Wage does affect employment. Our R-Squared for the first regression is 95.35% which means that 95.35% of the variation in data can be explained by this fitted model. We also found something interesting as we look at the time dummy variables. From 2001-2015 we see that the employment-to-population proportion is actually getting worse. We have Yr2000 as our benchmark, so for example, the coefficient of Yr2015 is -8.99 worse than Yr2000 while the coefficient of Yr2002 is -2.1298 worse than Yr2000. This mean that less people are working in 2015 compared to 2002. Right now according to the government our current unemployment rate in 2016 is 4.9%, it's about the same level as the pre-crisis of 2008, but the problem is the unemployment rate is not a good indicator because it disregards the labor force participation rate. So our data is the percentage of employment over the whole population, this shows that in fact we haven't really completely recovered from the 2008 crisis in term of the employment.

So now let's look at white and black employment population. The coefficient of the Minimum Wage for White population is 0.19 with P-value of 0.029 and the coefficient of the Minimum Wage for Black population is 0.799 with P-value of 0.039. Both of the coefficients are statistically significant. Thus, we can conclude that minimum wage actually increase the employment for these two groups since our coefficient is positive. Based on the coefficients we can also see that the effect of the minimum wage actually increases black population employment more than white population employment. But this doesn't make sense. Based on

the economics theory, if you increase the price of labor the demand would go down, meaning as the minimum wage increases, we should see the employment to decrease, not increase. So, we are not convinced by our model.

Next is the effect of minimum wage on employment population of men and women. The coefficient of the Minimum Wage for Men population is 0.144 with P-value 0.13 and as for Women, the coefficient of the Minimum Wage is 0.16 with P-value 0.064. Both of these groups have high R-Squared over 90%. With this we see that the effect of minimum wage on Men employment population is not statistically significant and the effect of the minimum wage on Women employment also not statistically significant.

Lastly we have regressions for four age groups, first age from 16 to 19 years old, second group is between 20 to 24 years old, third group is between 25 to 34 years old, and the third group is between 45 to 54 years old. All the p-value for all of these groups are too big to be considered statically significant even at 10% significant level. However, what we found interesting is that despite having high p-value this time the coefficient of the Minimum Wage for the first group age from 16 to 19 is negative (-0.08). This is actually what we want to see in our research, to draw a conclusion that higher minimum wage would affect labor of unskilled workers, but unfortunately the p-value is not significant.

6 Conclusion

Based on the given data set and findings of the detailed regression analysis, the increase in minimum wage has no significant effect on employment. Minimum wage is not high enough to have any impact on the rate of employment.

7 Improvement Suggestions

We believe analyzing more fine grained data which has information on employment rates for low skilled jobs with pay range closer or equal to the minimum wage such as restaurant workers, will give us more information , rather than the current dataset.

8 References

- Brown, Charles, Charles Gilroy, and Andrew Kohen. 1982. “The Effect of the Minimum Wage on Employment and Unemployment,” Journal of Economic Literature, Vol. 20, No. 2, June, pp. 487-528.
- https://www.epionline.org/minimum-wage/minimum-wage-teen-unemployment/

Source	SS	df	MS
Model	16882.9727	66	255.802617
Residual	751.512101	733	1.02525525
Total	17634.4848	799	22.0706944

Number of obs	800
F(66, 733)	249.50
Prob > F	0.0000
R-squared	0.9574
Adj R-squared	0.9535
Root MSE	1.0125

PercentofPop	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.1487827	.079635	1.87	0.062	-.0075571	.3051225
GSPPerCapita	.0001803	.0000118	15.25	0.000	.0001571	.0002035
Alaska	3.14966	.5230372	6.02	0.000	2.12283	4.176489
Arizona	2.014709	.3613354	5.58	0.000	1.305334	2.724085
Arkansas	1.096095	.358702	3.06	0.002	.3918895	1.800301
California	.4294764	.4191193	1.02	0.306	-.393341	1.252294
Colorado	7.644155	.3970405	19.25	0.000	6.864683	8.423627
Connecticut	1.970776	.4893564	4.03	0.000	1.010068	2.931483
Delaware	.1620099	.4859226	0.33	0.739	-.7919561	1.115976
Florida	1.00472	.3614185	2.78	0.006	.2951816	1.714259
Georgia	4.24895	.3788274	11.22	0.000	3.505234	4.992666
Hawaii	2.822272	.3846992	7.34	0.000	2.067028	3.577516
Idaho	6.750093	.3581037	18.85	0.000	6.047062	7.453125
Illinois	2.936347	.4004893	7.33	0.000	2.150104	3.72259
Indiana	4.026688	.3659884	11.00	0.000	3.308178	4.745199
Iowa	9.877608	.3738375	26.42	0.000	9.143688	10.61153
Kansas	8.60018	.3917885	21.95	0.000	7.831019	9.369341
Kentucky	.6142157	.3581972	1.71	0.087	-.088999	1.31743
Louisiana	-.9793641	.37502	-2.61	0.009	-1.715605	-.2431227
Maine	5.328261	.3618929	14.72	0.000	4.61779	6.038731
Maryland	5.867952	.3978757	14.75	0.000	5.08684	6.649063
Massachusetts	2.1485	.4574613	4.70	0.000	1.25041	3.046591
Michigan	1.384983	.3634538	3.81	0.000	.6714486	2.098518
Minnesota	9.941779	.3954975	25.14	0.000	9.165336	10.71822
Mississippi	-.5670982	.3629712	-1.56	0.119	-1.279685	.1454889
Missouri	5.4687	.3641305	15.02	0.000	4.753837	6.183563
Montana	5.868256	.3586155	16.36	0.000	5.16422	6.572291
Nebraska	11.29561	.3833651	29.46	0.000	10.54299	12.04824
Nevada	3.813737	.3774174	10.10	0.000	3.072789	4.554684
NewHampshire	9.216294	.3764197	24.48	0.000	8.477305	9.955283
NewJersey	1.909769	.4200489	4.55	0.000	1.085126	2.734411
NewMexico	.6020404	.3612146	1.67	0.096	-.1070982	1.311179
NewYork	-2.172107	.4465206	-4.86	0.000	-3.048718	-1.295495
NorthCarolina	2.475053	.367503	6.73	0.000	1.753569	3.196537
NorthDakota	10.79871	.3977713	27.15	0.000	10.0178	11.57962
Ohio	3.622822	.3682045	9.84	0.000	2.899961	4.345683
Oklahoma	3.16792	.3598479	8.80	0.000	2.461464	3.874375
Oregon	1.906132	.4005451	4.76	0.000	1.119779	2.692484
Pennsylvania	2.219211	.3717315	5.97	0.000	1.489426	2.948997
RhodeIsland	3.847399	.381885	10.07	0.000	3.097681	4.597118
SouthCarolina	1.118157	.3580087	3.12	0.002	.4153121	1.821001
SouthDakota	11.15272	.3732982	29.88	0.000	10.41986	11.88558
Tennessee	1.635824	.3615351	4.52	0.000	.9260567	2.345592
Texas	3.753264	.3870679	9.70	0.000	2.99337	4.513157
Utah	9.254396	.3643397	25.40	0.000	8.539123	9.96967
Vermont	9.461167	.3794422	24.93	0.000	8.716244	10.20609
Virginia	5.694117	.3928614	14.49	0.000	4.922849	6.465385
Washington	2.419147	.4308165	5.62	0.000	1.573365	3.264928
WestVirginia	-4.240032	.3597535	-11.79	0.000	-4.946302	-3.533762
Wisconsin	8.453883	.3697597	22.86	0.000	7.727968	9.179797
Wyoming	6.764838	.4702461	14.39	0.000	5.841649	7.688028
Yr2001	-.8932398	.2029136	-4.40	0.000	-1.291601	-.4948787
Yr2002	-2.129856	.2048539	-10.40	0.000	-2.532026	-1.727686
Yr2003	-2.733307	.208533	-13.11	0.000	-3.1427	-2.323914
Yr2004	-3.10726	.2163002	-14.37	0.000	-3.531902	-2.682618
Yr2005	-3.20618	.2271685	-14.11	0.000	-3.652159	-2.760202
Yr2006	-3.172947	.24095	-13.17	0.000	-3.645981	-2.699912
Yr2007	-3.616216	.2607314	-13.87	0.000	-4.128085	-3.104347
Yr2008	-4.548186	.2783736	-16.34	0.000	-5.09469	-4.001681
Yr2009	-7.190408	.2838774	-25.33	0.000	-7.747718	-6.633098
Yr2010	-8.398633	.3100951	-27.08	0.000	-9.007414	-7.789853
Yr2011	-8.648161	.3221216	-26.85	0.000	-9.280552	-8.01577
Yr2012	-8.93588	.3336494	-26.78	0.000	-9.590902	-8.280858
Yr2013	-9.216721	.3410579	-27.02	0.000	-9.886287	-8.547154
Yr2014	-9.179756	.3587766	-25.59	0.000	-9.884109	-8.475404
Yr2015	-8.994902	.3767661	-23.87	0.000	-9.734571	-8.255232
_cons	54.50823	.5610985	97.15	0.000	53.40668	55.60978

Source	SS	df	MS
Model	16436.384	66	249.036121
Residual	908.613184	733	1.23958142
Total	17344.9972	799	21.708382

Number of obs	800
F(66, 733)	200.90
Prob > F	0.0000
R-squared	0.9476
Adj R-squared	0.9429
Root MSE	1.1134

White	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.1921168	.0875639	2.19	0.029	.0202108	.3640228
GSPPerCapita	.0001725	.000013	13.27	0.000	.000147	.000198
Alaska	3.754647	.5751142	6.53	0.000	2.62558	4.883715
Arizona	.6499256	.3973123	1.64	0.102	-.1300802	1.429931
Arkansas	.2464495	.3944167	0.62	0.532	-.5278716	1.020771
California	-.5562936	.4608496	-1.21	0.228	-1.461036	.3484489
Colorado	6.526226	.4365725	14.95	0.000	5.669145	7.383308
Connecticut	.6773724	.5380799	1.26	0.208	-.3789891	1.733734
Delaware	-1.554524	.5343042	-2.91	0.004	-2.603473	-.5055746
Florida	-.8835403	.3974037	-2.22	0.027	-1.663725	-.1033551
Georgia	3.641883	.4165459	8.74	0.000	2.824118	4.459648
Hawaii	1.924492	.4230023	4.55	0.000	1.094052	2.754933
Idaho	5.194114	.3937589	13.19	0.000	4.421084	5.967143
Illinois	2.936917	.4403646	6.67	0.000	2.072391	3.801444
Indiana	3.070887	.4024286	7.63	0.000	2.280837	3.860937
Iowa	8.592938	.4110593	20.90	0.000	7.785944	9.399932
Kansas	7.717654	.4307975	17.91	0.000	6.87191	8.563398
Kentucky	-1.07771	.3938617	-2.74	0.006	-1.850942	-.3044787
Louisiana	-.1427931	.4123595	-0.35	0.729	-.9523395	.6667533
Maine	3.821598	.3979253	9.60	0.000	3.040389	4.602807
Maryland	4.657789	.4374909	10.65	0.000	3.798904	5.516673
Massachusetts	1.125703	.5030091	2.24	0.026	.138193	2.113214
Michigan	1.091127	.3996416	2.73	0.006	.3065481	1.875705
Minnesota	8.95323	.4348758	20.59	0.000	8.09948	9.806981
Mississippi	.5244231	.399111	1.31	0.189	-.2591137	1.30796
Missouri	4.483373	.4003857	11.20	0.000	3.697333	5.269412
Montana	5.113472	.3943216	12.97	0.000	4.339338	5.887606
Nebraska	10.29071	.4215355	24.41	0.000	9.463153	11.11827
Nevada	2.413895	.4149956	5.82	0.000	1.599173	3.228617
NewHampshire	7.595861	.4138985	18.35	0.000	6.783293	8.408429
NewJersey	.6219109	.4618718	1.35	0.179	-.2848384	1.52866
NewMexico	-.1584622	.3971795	-0.40	0.690	-.9382073	.6212829
NewYork	-2.518014	.4909791	-5.13	0.000	-3.481907	-1.554121
NorthCarolina	1.807665	.404094	4.47	0.000	1.014346	2.600985
NorthDakota	10.75741	.437376	24.60	0.000	9.898752	11.61607
Ohio	2.923396	.4048653	7.22	0.000	2.128562	3.71823
Oklahoma	2.26088	.3956767	5.71	0.000	1.484086	3.037675
Oregon	.2594761	.440426	0.59	0.556	-.6051706	1.124123
Pennsylvania	1.557923	.4087435	3.81	0.000	.7554754	2.360371
RhodeIsland	2.4035	.4199079	5.72	0.000	1.579134	3.227865
SouthCarolina	.5907379	.3936544	1.50	0.134	-.1820866	1.363562
SouthDakota	11.08183	.4104662	27.00	0.000	10.276	11.88766
Tennessee	-.0181932	.3975319	-0.05	0.964	-.7986301	.7622436
Texas	2.472438	.4256069	5.81	0.000	1.636884	3.307992
Utah	7.849295	.4006158	19.59	0.000	7.062803	8.635786
Vermont	7.915994	.4172219	18.97	0.000	7.096901	8.735086
Virginia	4.838892	.4319773	11.20	0.000	3.990832	5.686952
Washington	.8064044	.4737114	1.70	0.089	-.1235885	1.736397
WestVirginia	-5.975686	.395573	-15.11	0.000	-6.752277	-5.199095
Wisconsin	7.676613	.4065754	18.88	0.000	6.878422	8.474804
Wyoming	5.613218	.5170669	10.86	0.000	4.59811	6.628327
Yr2001	-.8575537	.223117	-3.84	0.000	-1.295578	-.4195291
Yr2002	-2.118831	.2252505	-9.41	0.000	-2.561044	-1.676618
Yr2003	-2.629943	.2292959	-11.47	0.000	-3.080098	-2.179788
Yr2004	-2.92631	.2378365	-12.30	0.000	-3.393232	-2.459388
Yr2005	-2.969343	.2497869	-11.89	0.000	-3.459726	-2.47896
Yr2006	-3.046513	.2649406	-11.50	0.000	-3.566646	-2.52638
Yr2007	-3.556592	.2866916	-12.41	0.000	-4.119427	-2.993758
Yr2008	-4.438835	.3060903	-14.50	0.000	-5.039753	-3.837917
Yr2009	-6.914898	.3121421	-22.15	0.000	-7.527697	-6.302098
Yr2010	-8.061028	.3409702	-23.64	0.000	-8.730422	-7.391633
Yr2011	-8.314516	.3541942	-23.47	0.000	-9.009872	-7.61916
Yr2012	-8.75343	.3668697	-23.86	0.000	-9.473671	-8.033189
Yr2013	-9.012787	.3750158	-24.03	0.000	-9.749021	-8.276554
Yr2014	-9.104566	.3944987	-23.08	0.000	-9.879048	-8.330084
Yr2015	-9.058352	.4142795	-21.87	0.000	-9.871668	-8.245037
_cons	56.02639	.6169652	90.81	0.000	54.81517	57.23762

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Source	SS	df	MS
Model	14695.5528	62	237.025045
Residual	10288.0479	585	17.5864067
Total	24983.6007	647	38.6145296

Number of obs	648
F(62, 585)	13.48
Prob > F	0.0000
R-squared	0.5882
Adj R-squared	0.5446
Root MSE	4.1936

Black	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.7989112	.3856125	2.07	0.039	.0415578	1.556265
GSPPerCapita	.0002389	.0000707	3.38	0.001	.0001001	.0003777
Alaska	6.122816	2.708221	2.26	0.024	.803797	11.44184
Arizona	6.844627	1.50832	4.54	0.000	3.882246	9.807008
Arkansas	2.409593	1.487597	1.62	0.106	-.5120886	5.331275
California	-1.868223	1.940955	-0.96	0.336	-5.680313	1.943867
Colorado	6.10032	1.801373	3.39	0.001	2.562373	9.638266
Connecticut	1.011218	2.455029	0.41	0.681	-3.810526	5.832961
Delaware	2.439684	2.456634	0.99	0.321	-2.385213	7.264582
Florida	6.392785	1.507832	4.24	0.000	3.431362	9.354207
Georgia	7.16817	1.62326	4.42	0.000	3.980044	10.3563
Hawaii	1.874955	2.180488	0.86	0.390	-2.407583	6.157493
Idaho	25.78986	4.370293	5.90	0.000	17.20649	34.37324
Illinois	-2.876545	1.819235	-1.58	0.114	-6.449573	.6964835
Indiana	2.480683	1.550873	1.60	0.110	-.5652745	5.52664
Iowa	5.203451	1.73579	3.00	0.003	1.794311	8.612591
Kansas	6.929246	1.727872	4.01	0.000	3.535659	10.32283
Kentucky	5.416337	1.484453	3.65	0.000	2.500831	8.331844
Louisiana	-1.82077	1.626144	-1.12	0.263	-5.014561	1.373021
Maine	8.693752	2.168182	4.01	0.000	4.435382	12.95212
Maryland	7.247143	1.809957	4.00	0.000	3.692338	10.80195
Massachusetts	-.2114182	2.231512	-0.09	0.925	-4.594169	4.171333
Michigan	-2.353564	1.525977	-1.54	0.124	-5.350624	.6434955
Minnesota	5.489595	1.791125	3.06	0.002	1.971777	9.007413
Mississippi	.6174946	1.525326	0.40	0.686	-2.378287	3.613276
Missouri	5.018001	1.53438	3.27	0.001	2.004437	8.031566
Montana	0	(omitted)				
Nebraska	5.986618	1.705507	3.51	0.000	2.636956	9.336281
Nevada	3.635835	1.642441	2.21	0.027	.4100359	6.861633
NewHampshire	11.16881	2.137875	5.22	0.000	6.969965	15.36766
NewJersey	2.143406	1.978943	1.08	0.279	-1.743291	6.030104
NewMexico	-.1329403	1.628653	-0.08	0.935	-3.331659	3.065779
NewYork	-3.474491	2.176107	-1.60	0.111	-7.748424	.7994418
NorthCarolina	3.14931	1.563628	2.01	0.044	.0783019	6.220318
NorthDakota	0	(omitted)				
Ohio	2.01055	1.569518	1.28	0.201	-1.072026	5.093126
Oklahoma	2.955623	1.498651	1.97	0.049	.0122321	5.899014
Oregon	-1.83489	1.814152	-1.01	0.312	-5.397934	1.728153
Pennsylvania	-.6681479	1.598547	-0.42	0.676	-3.807739	2.471443
RhodeIsland	6.606778	1.66036	3.98	0.000	3.345787	9.86777
SouthCarolina	3.029995	1.482827	2.04	0.041	.1176815	5.942308
SouthDakota	0	(omitted)				
Tennessee	6.397942	1.51309	4.23	0.000	3.426191	9.369692
Texas	5.49349	1.722156	3.19	0.001	2.111129	8.87585
Utah	24.5036	3.198365	7.66	0.000	18.22192	30.78528
Vermont	0	(omitted)				
Virginia	7.43566	1.770274	4.20	0.000	3.958793	10.91253
Washington	3.686738	1.996934	1.85	0.065	-.2352948	7.60877
WestVirginia	2.406326	1.496858	1.61	0.108	-.5335452	5.346196
Wisconsin	1.829252	1.582279	1.16	0.248	-1.278386	4.936891
Wyoming	10.39803	3.861136	2.69	0.007	2.81465	17.98141
Yr2001	-2.116001	.9659926	-2.19	0.029	-4.013237	-.2187646
Yr2002	-3.880095	.9764279	-3.97	0.000	-5.797826	-1.962364
Yr2003	-5.31122	.9905245	-5.36	0.000	-7.256637	-3.365802
Yr2004	-5.797969	1.038129	-5.59	0.000	-7.836883	-3.759055
Yr2005	-5.331981	1.112992	-4.79	0.000	-7.517929	-3.146034
Yr2006	-5.569328	1.201527	-4.64	0.000	-7.92916	-3.209496
Yr2007	-6.439443	1.336406	-4.82	0.000	-9.06418	-3.814705
Yr2008	-8.229075	1.414573	-5.82	0.000	-11.00734	-5.450815
Yr2009	-11.90693	1.408153	-8.46	0.000	-14.67258	-9.14128
Yr2010	-12.8428	1.547213	-8.30	0.000	-15.88157	-9.804035
Yr2011	-14.40641	1.61368	-8.93	0.000	-17.57572	-11.2371
Yr2012	-13.17377	1.684396	-7.82	0.000	-16.48197	-9.865571
Yr2013	-14.47865	1.730771	-8.37	0.000	-17.87794	-11.07937
Yr2014	-13.40543	1.836979	-7.30	0.000	-17.0133	-9.797549
Yr2015	-13.65631	1.962129	-6.96	0.000	-17.50998	-9.802635
_cons	46.83287	2.882055	16.25	0.000	41.17244	52.49331

Source	SS	df	MS
Model	18236.2451	66	276.306744
Residual	1098.60979	733	1.49878552
Total	19334.8549	799	24.1988171

Number of obs	800
F(66, 733)	184.35
Prob > F	0.0000
R-squared	0.9432
Adj R-squared	0.9381
Root MSE	1.2242

Men	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.1443873	.0962847	1.50	0.134	-.0446395	.333414
GSPPerCapita	.0002253	.0000143	15.77	0.000	.0001973	.0002534
Alaska	-.9397124	.632392	-1.49	0.138	-2.181228	.301803
Arizona	2.579057	.4368821	5.90	0.000	1.721367	3.436746
Arkansas	.7795876	.4336981	1.80	0.073	-.071851	1.631026
California	.5529533	.5067473	1.09	0.276	-.4418958	1.547802
Colorado	7.241096	.4800523	15.08	0.000	6.298655	8.183537
Connecticut	-.1193175	.5916692	-0.20	0.840	-1.280886	1.042251
Delaware	-2.560366	.5875175	-4.36	0.000	-3.713784	-1.406948
Florida	.3815535	.4369826	0.87	0.383	-.4763331	1.23944
Georgia	4.613418	.4580313	10.07	0.000	3.714208	5.512627
Hawaii	.6022497	.4651307	1.29	0.196	-.3108974	1.515397
Idaho	7.053207	.4329747	16.29	0.000	6.203189	7.903226
Illinois	1.934554	.4842221	4.00	0.000	.9839263	2.885182
Indiana	3.380527	.4425079	7.64	0.000	2.511793	4.249261
Iowa	7.701316	.4519982	17.04	0.000	6.813951	8.588681
Kansas	7.505107	.4737022	15.84	0.000	6.575132	8.435082
Kentucky	-.3071837	.4330878	-0.71	0.478	-1.157424	.5430567
Louisiana	-1.292527	.4534278	-2.85	0.004	-2.182699	-.4023551
Maine	3.0684	.4375561	7.01	0.000	2.209388	3.927413
Maryland	4.202519	.4810622	8.74	0.000	3.258095	5.146943
Massachusetts	-.3642542	.5531056	-0.66	0.510	-1.450114	.7216059
Michigan	-.0754951	.4394434	-0.17	0.864	-.9382128	.7872226
Minnesota	6.976306	.4781867	14.59	0.000	6.037527	7.915084
Mississippi	-.7387897	.4388599	-1.68	0.093	-1.600362	.1227824
Missouri	3.955897	.4402616	8.99	0.000	3.091573	4.820221
Montana	2.972932	.4335935	6.86	0.000	2.121699	3.824166
Nebraska	9.554804	.4635177	20.61	0.000	8.644824	10.46479
Nevada	3.193824	.4563265	7.00	0.000	2.297961	4.089687
NewHampshire	7.461821	.4551202	16.40	0.000	6.568327	8.355316
NewJersey	1.723502	.5078713	3.39	0.001	.7264466	2.720558
NewMexico	-.4251275	.4367361	-0.97	0.331	-1.28253	.4322753
NewYork	-3.656607	.5398775	-6.77	0.000	-4.716498	-2.596716
NorthCarolina	2.178763	.4443392	4.90	0.000	1.306433	3.051092
NorthDakota	8.050612	.4809359	16.74	0.000	7.106436	8.994788
Ohio	2.057242	.4451874	4.62	0.000	1.183248	2.931236
Oklahoma	3.74754	.4350836	8.61	0.000	2.893381	4.601698
Oregon	.2096489	.4842896	0.43	0.665	-.7411112	1.160409
Pennsylvania	1.336879	.4494518	2.97	0.003	.4545128	2.219245
RhodeIsland	1.816343	.4617281	3.93	0.000	.9098754	2.72281
SouthCarolina	.2695569	.4328599	0.62	0.534	-.580236	1.11935
SouthDakota	8.769549	.451346	19.43	0.000	7.883464	9.655634
Tennessee	1.737161	.4371235	3.97	0.000	.878998	2.595325
Texas	5.326531	.4679946	11.38	0.000	4.407762	6.245301
Utah	11.40888	.4405146	25.90	0.000	10.54406	12.2737
Vermont	6.614108	.4587746	14.42	0.000	5.713439	7.514777
Virginia	4.890141	.4749995	10.30	0.000	3.957619	5.822662
Washington	.6879242	.52089	1.32	0.187	-.33469	1.710538
WestVirginia	-5.227132	.4349695	-12.02	0.000	-6.081066	-4.373197
Wisconsin	5.536703	.4470677	12.38	0.000	4.659017	6.414389
Wyoming	5.614536	.5685634	9.87	0.000	4.498329	6.730743
Yr2001	-1.140581	.245338	-4.65	0.000	-1.62223	-.6589317
Yr2002	-2.339047	.247684	-9.44	0.000	-2.825302	-1.852793
Yr2003	-3.401615	.2521323	-13.49	0.000	-3.896602	-2.906627
Yr2004	-3.739081	.2615235	-14.30	0.000	-4.252505	-3.225657
Yr2005	-3.873972	.2746641	-14.10	0.000	-4.413194	-3.33475
Yr2006	-3.916108	.291327	-13.44	0.000	-4.488043	-3.344173
Yr2007	-4.524529	.3152442	-14.35	0.000	-5.143418	-3.90564
Yr2008	-5.860229	.3365749	-17.41	0.000	-6.520995	-5.199463
Yr2009	-9.553718	.3432295	-27.83	0.000	-10.22755	-8.879888
Yr2010	-10.87909	.3749287	-29.02	0.000	-11.61515	-10.14303
Yr2011	-10.94602	.3894697	-28.10	0.000	-11.71063	-10.18141
Yr2012	-10.94296	.4034076	-27.13	0.000	-11.73493	-10.15099
Yr2013	-11.18314	.412365	-27.12	0.000	-11.9927	-10.37358
Yr2014	-11.2104	.4337883	-25.84	0.000	-12.06202	-10.35879
Yr2015	-11.08848	.4555391	-24.34	0.000	-11.9828	-10.19417
_cons	60.74769	.678411	89.54	0.000	59.41583	62.07955

Source	SS	df	MS
Model	17477.092	66	264.804424
Residual	905.36481	733	1.23514981
Total	18382.4568	799	23.0068295

Number of obs	800
F(66, 733)	214.39
Prob > F	0.0000
R-squared	0.9507
Adj R-squared	0.9463
Root MSE	1.1114

Women	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.1623611	.0874073	1.86	0.064	-.0092374	.3339595
GSPPerCapita	.0001305	.000013	10.06	0.000	.000105	.000156
Alaska	6.609892	.5740853	11.51	0.000	5.482845	7.73694
Arizona	1.056611	.3966014	2.66	0.008	.278001	1.835221
Arkansas	1.234006	.393711	3.13	0.002	.4610701	2.006942
California	-.0498803	.460025	-0.11	0.914	-.9530041	.8532435
Colorado	7.524076	.4357914	17.27	0.000	6.668528	8.379624
Connecticut	3.933877	.5371172	7.32	0.000	2.879406	4.988349
Delaware	2.78951	.5333483	5.23	0.000	1.742438	3.836583
Florida	1.394791	.3966927	3.52	0.000	.616002	2.173581
Georgia	3.841265	.4158007	9.24	0.000	3.024963	4.657567
Hawaii	4.670291	.4222455	11.06	0.000	3.841336	5.499245
Idaho	5.937091	.3930544	15.11	0.000	5.165445	6.708738
Illinois	3.729333	.4395767	8.48	0.000	2.866354	4.592313
Indiana	4.359795	.4017086	10.85	0.000	3.571159	5.148432
Iowa	11.61466	.4103238	28.31	0.000	10.80911	12.42021
Kansas	9.326481	.4300267	21.69	0.000	8.48225	10.17071
Kentucky	1.328028	.393157	3.38	0.001	.5561799	2.099876
Louisiana	-.614882	.4116217	-1.49	0.136	-1.42298	.193216
Maine	7.168773	.3972134	18.05	0.000	6.388962	7.948585
Maryland	7.451925	.4367081	17.06	0.000	6.594577	8.309273
Massachusetts	4.467067	.5021092	8.90	0.000	3.481323	5.45281
Michigan	2.507375	.3989266	6.29	0.000	1.7242	3.29055
Minnesota	12.40632	.4340978	28.58	0.000	11.55409	13.25854
Mississippi	-.3383298	.3983969	-0.85	0.396	-1.120465	.4438052
Missouri	6.736741	.3996694	16.86	0.000	5.952108	7.521374
Montana	8.17393	.3936161	20.77	0.000	7.40118	8.946679
Nebraska	12.64129	.4207813	30.04	0.000	11.81521	13.46737
Nevada	3.731825	.4142531	9.01	0.000	2.918561	4.545089
NewHampshire	10.52933	.413158	25.48	0.000	9.718213	11.34044
NewJersey	2.060674	.4610454	4.47	0.000	1.155547	2.965801
NewMexico	1.361401	.3964689	3.43	0.001	.5830508	2.139751
NewYork	-.6730782	.4901007	-1.37	0.170	-1.635247	.2890903
NorthCarolina	2.703991	.403371	6.70	0.000	1.912091	3.495892
NorthDakota	12.9855	.4365935	29.74	0.000	12.12838	13.84262
Ohio	4.973084	.404141	12.31	0.000	4.179672	5.766496
Oklahoma	2.403031	.3949688	6.08	0.000	1.627626	3.178436
Oregon	3.162437	.439638	7.19	0.000	2.299337	4.025537
Pennsylvania	2.977229	.4080122	7.30	0.000	2.176217	3.778241
RhodeIsland	5.67994	.4191567	13.55	0.000	4.857049	6.502831
SouthCarolina	1.877785	.3929501	4.78	0.000	1.106343	2.649227
SouthDakota	13.06526	.4097318	31.89	0.000	12.26087	13.86965
Tennessee	1.44236	.3968206	3.63	0.000	.6633194	2.2214
Texas	2.009786	.4248454	4.73	0.000	1.175727	2.843845
Utah	6.558482	.399899	16.40	0.000	5.773397	7.343566
Vermont	11.86666	.4164755	28.49	0.000	11.04903	12.68428
Virginia	6.419615	.4312044	14.89	0.000	5.573072	7.266158
Washington	3.73754	.4728638	7.90	0.000	2.809211	4.665869
WestVirginia	-3.592762	.3948652	-9.10	0.000	-4.367964	-2.817561
Wisconsin	10.86284	.4058479	26.77	0.000	10.06608	11.6596
Wyoming	7.355356	.5161418	14.25	0.000	6.342063	8.368648
Yr2001	-.6542401	.2227178	-2.94	0.003	-1.091481	-.2169992
Yr2002	-1.900202	.2248475	-8.45	0.000	-2.341624	-1.45878
Yr2003	-2.101142	.2288857	-9.18	0.000	-2.550492	-1.651792
Yr2004	-2.537119	.237411	-10.69	0.000	-3.003205	-2.071032
Yr2005	-2.599511	.24934	-10.43	0.000	-3.089017	-2.110006
Yr2006	-2.475694	.2644666	-9.36	0.000	-2.994896	-1.956492
Yr2007	-2.780068	.2861786	-9.71	0.000	-3.341896	-2.218241
Yr2008	-3.338451	.3055426	-10.93	0.000	-3.938294	-2.738608
Yr2009	-4.991796	.3115836	-16.02	0.000	-5.603499	-4.380093
Yr2010	-6.08551	.3403602	-17.88	0.000	-6.753707	-5.417313
Yr2011	-6.523728	.3535605	-18.45	0.000	-7.21784	-5.829617
Yr2012	-7.021983	.3662133	-19.17	0.000	-7.740935	-6.303031
Yr2013	-7.349598	.3743449	-19.63	0.000	-8.084514	-6.614682
Yr2014	-7.248539	.3937929	-18.41	0.000	-8.021635	-6.475442
Yr2015	-7.005105	.4135382	-16.94	0.000	-7.816966	-6.193245
_cons	49.14739	.6158613	79.80	0.000	47.93833	50.35645

Source	SS	df	MS
Model	69133.1846	66	1047.47249
Residual	13985.9554	733	19.0804303
Total	83119.14	799	104.028961

Number of obs	800
F(66, 733)	54.90
Prob > F	0.0000
R-squared	0.8317
Adj R-squared	0.8166
Root MSE	4.3681

Age16to19	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	-.0813288	.3435436	-0.24	0.813	-.7557755	.5931179
GSPPerCapita	.0001362	.000051	2.67	0.008	.0000361	.0002363
Alaska	4.297028	2.256372	1.90	0.057	-.1326942	8.72675
Arizona	3.395606	1.558793	2.18	0.030	.3353743	6.455838
Arkansas	3.655387	1.547433	2.36	0.018	.6174578	6.693316
California	-4.627393	1.808072	-2.56	0.011	-8.177011	-1.077776
Colorado	4.752428	1.712825	2.77	0.006	1.389801	8.115055
Connecticut	-.361727	2.111073	-0.17	0.864	-4.506198	3.782744
Delaware	3.708067	2.09626	1.77	0.077	-.4073223	7.823457
Florida	1.112446	1.559152	0.71	0.476	-1.94849	4.173382
Georgia	-2.78053	1.634254	-1.70	0.089	-5.988906	.4278462
Hawaii	-1.221492	1.659584	-0.74	0.462	-4.479597	2.036614
Idaho	13.17267	1.544852	8.53	0.000	10.13981	16.20553
Illinois	3.084685	1.727702	1.79	0.075	-.3071506	6.47652
Indiana	5.398297	1.578866	3.42	0.001	2.298658	8.497936
Iowa	21.78901	1.612728	13.51	0.000	18.62289	24.95513
Kansas	14.39155	1.690167	8.51	0.000	11.0734	17.7097
Kentucky	5.172186	1.545255	3.35	0.001	2.138532	8.205841
Louisiana	-2.124721	1.617829	-1.31	0.189	-5.300851	1.051409
Maine	11.23183	1.561198	7.19	0.000	8.166876	14.29678
Maryland	3.041388	1.716428	1.77	0.077	-.3283128	6.411089
Massachusetts	4.23097	1.973479	2.14	0.032	.3566258	8.105314
Michigan	7.896909	1.567932	5.04	0.000	4.818735	10.97508
Minnesota	17.83193	1.706168	10.45	0.000	14.48237	21.18149
Mississippi	-2.990837	1.56585	-1.91	0.057	-6.064923	.0832489
Missouri	11.78268	1.570851	7.50	0.000	8.698778	14.86659
Montana	13.20706	1.54706	8.54	0.000	10.16987	16.24426
Nebraska	17.26196	1.653829	10.44	0.000	14.01516	20.50877
Nevada	3.822475	1.628171	2.35	0.019	.6260402	7.018909
NewHampshire	15.0192	1.623867	9.25	0.000	11.83121	18.20718
NewJersey	-1.867456	1.812083	-1.03	0.303	-5.424946	1.690035
NewMexico	2.105711	1.558273	1.35	0.177	-.953498	5.164921
NewYork	-5.357373	1.926281	-2.78	0.006	-9.139058	-1.575688
NorthCarolina	1.277834	1.5854	0.81	0.421	-1.834633	4.390301
NorthDakota	16.00858	1.715977	9.33	0.000	12.63977	19.3774
Ohio	10.8083	1.588427	6.80	0.000	7.689892	13.92671
Oklahoma	6.466765	1.552377	4.17	0.000	3.419131	9.5144
Oregon	3.201949	1.727943	1.85	0.064	-.1903589	6.594257
Pennsylvania	8.33797	1.603642	5.20	0.000	5.189691	11.48625
RhodeIsland	10.59836	1.647444	6.43	0.000	7.364087	13.83263
SouthCarolina	.7295347	1.544442	0.47	0.637	-2.302523	3.761592
SouthDakota	18.82115	1.610401	11.69	0.000	15.65961	21.9827
Tennessee	3.886886	1.559655	2.49	0.013	.8249628	6.948809
Texas	.4223332	1.669803	0.25	0.800	-2.855833	3.7005
Utah	16.7885	1.571754	10.68	0.000	13.70282	19.87418
Vermont	15.39487	1.636906	9.40	0.000	12.18129	18.60846
Virginia	3.992004	1.694796	2.36	0.019	.6647704	7.319237
Washington	2.94646	1.858533	1.59	0.113	-.7022237	6.595143
WestVirginia	-.9211662	1.551969	-0.59	0.553	-3.968001	2.125669
Wisconsin	18.85072	1.595136	11.82	0.000	15.71914	21.9823
Wyoming	15.14885	2.028632	7.47	0.000	11.16622	19.13147
Yr2001	-1.75941	.8753651	-2.01	0.045	-3.477932	-.0408885
Yr2002	-4.809271	.8837354	-5.44	0.000	-6.544226	-3.074317
Yr2003	-7.480059	.899607	-8.31	0.000	-9.246173	-5.713946
Yr2004	-7.747209	.9331148	-8.30	0.000	-9.579105	-5.915313
Yr2005	-8.376096	.9800004	-8.55	0.000	-10.30004	-6.452154
Yr2006	-7.609999	1.039454	-7.32	0.000	-9.65066	-5.569338
Yr2007	-10.13798	1.12479	-9.01	0.000	-12.34618	-7.929789
Yr2008	-11.89699	1.200898	-9.91	0.000	-14.2546	-9.539379
Yr2009	-16.39925	1.224641	-13.39	0.000	-18.80347	-13.99503
Yr2010	-19.01269	1.337744	-14.21	0.000	-21.63896	-16.38643
Yr2011	-19.18649	1.389626	-13.81	0.000	-21.91461	-16.45837
Yr2012	-19.19216	1.439357	-13.33	0.000	-22.01791	-16.3664
Yr2013	-18.83694	1.471317	-12.80	0.000	-21.72544	-15.94845
Yr2014	-18.29269	1.547755	-11.82	0.000	-21.33125	-15.25413
Yr2015	-21.29069	1.625361	-13.10	0.000	-24.48161	-18.09977
_cons	36.31549	2.420568	15.00	0.000	31.56341	41.06756

Source	SS	df	MS
Model	29291.0389	66	443.803619
Residual	4140.91253	733	5.64926676
Total	33431.9514	799	41.842242

Number of obs	800
F(66, 733)	78.56
Prob > F	0.0000
R-squared	0.8761
Adj R-squared	0.8650
Root MSE	2.3768

Age20to24	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.0759011	.1869321	0.41	0.685	-.291085	.4428872
GSPPerCapita	.0002288	.0000277	8.25	0.000	.0001743	.0002832
Alaska	-3.447734	1.227758	-2.81	0.005	-5.858074	-1.037393
Arizona	2.773952	.8481849	3.27	0.001	1.108791	4.439114
Arkansas	4.512191	.8420033	5.36	0.000	2.859166	6.165217
California	-3.5753	.9838247	-3.63	0.000	-5.50675	-1.64385
Colorado	6.250657	.9319977	6.71	0.000	4.420954	8.08036
Connecticut	-2.177803	1.148696	-1.90	0.058	-4.432931	.0773242
Delaware	.5947131	1.140636	0.52	0.602	-1.64459	2.834016
Florida	2.831488	.84838	3.34	0.001	1.165944	4.497033
Georgia	-1.45871	.889245	-1.64	0.101	-3.204481	.2870604
Hawaii	1.721385	.9030281	1.91	0.057	-.051445	3.494215
Idaho	8.412072	.840599	10.01	0.000	6.761803	10.06234
Illinois	-.8957375	.9400932	-0.95	0.341	-2.741334	.9498588
Indiana	2.989719	.8591071	3.48	0.001	1.303115	4.676323
Iowa	11.7355	.877532	13.37	0.000	10.01273	13.45828
Kansas	9.145621	.9196693	9.94	0.000	7.340121	10.95112
Kentucky	2.514286	.8408184	2.99	0.003	.8635866	4.164986
Louisiana	-3.281164	.8803076	-3.73	0.000	-5.009388	-1.552939
Maine	7.44617	.8494935	8.77	0.000	5.778439	9.1139
Maryland	1.580912	.9339583	1.69	0.091	-.25264	3.414465
Massachusetts	-2.40285	1.073827	-2.24	0.026	-4.510993	-.2947063
Michigan	3.261014	.8531575	3.82	0.000	1.58609	4.935938
Minnesota	10.61508	.9283757	11.43	0.000	8.792483	12.43767
Mississippi	-5.965169	.8520246	-7.00	0.000	-7.637869	-4.292469
Missouri	7.295561	.854746	8.54	0.000	5.617518	8.973603
Montana	8.909665	.8418003	10.58	0.000	7.257038	10.56229
Nebraska	12.52453	.8998967	13.92	0.000	10.75785	14.29121
Nevada	6.691081	.8859352	7.55	0.000	4.951808	8.430354
NewHampshire	9.027694	.8835932	10.22	0.000	7.293019	10.76237
NewJersey	-3.484229	.9860069	-3.53	0.000	-5.419964	-1.548495
NewMexico	-.9537125	.8479015	-1.12	0.261	-2.618317	.7108924
NewYork	-9.368891	1.048145	-8.94	0.000	-11.42662	-7.311166
NorthCarolina	1.03533	.8626625	1.20	0.230	-.6582536	2.728914
NorthDakota	11.96285	.9337132	12.81	0.000	10.12978	13.79592
Ohio	5.263956	.8643092	6.09	0.000	3.56714	6.960773
Oklahoma	5.449454	.8446933	6.45	0.000	3.791147	7.107761
Oregon	2.479637	.9402242	2.64	0.009	.6337831	4.32549
Pennsylvania	1.733543	.8725884	1.99	0.047	.0204731	3.446614
RhodeIsland	5.531255	.8964222	6.17	0.000	3.771394	7.291116
SouthCarolina	-.4981355	.8403759	-0.59	0.554	-2.147966	1.151695
SouthDakota	11.03804	.8762658	12.60	0.000	9.317754	12.75833
Tennessee	2.828772	.8486536	3.33	0.001	1.16269	4.494853
Texas	.6812436	.9085883	0.75	0.454	-1.102502	2.464989
Utah	11.57675	.8552372	13.54	0.000	9.897742	13.25576
Vermont	6.321316	.8906881	7.10	0.000	4.572712	8.06992
Virginia	3.349487	.9221879	3.63	0.000	1.539042	5.159931
Washington	2.129992	1.011282	2.11	0.036	.1446372	4.115347
WestVirginia	-.4429512	.8444717	-0.52	0.600	-2.100823	1.21492
Wisconsin	11.14584	.8679597	12.84	0.000	9.441858	12.84982
Wyoming	5.182189	1.103838	4.69	0.000	3.015129	7.34925
Yr2001	-1.44811	.4763116	-3.04	0.002	-2.383208	-.5130127
Yr2002	-3.455044	.4808662	-7.19	0.000	-4.399083	-2.511005
Yr2003	-4.894951	.4895024	-10.00	0.000	-5.855945	-3.933958
Yr2004	-5.302409	.5077349	-10.44	0.000	-6.299197	-4.305621
Yr2005	-6.01768	.5332467	-11.28	0.000	-7.064553	-4.970807
Yr2006	-5.692665	.5655969	-10.06	0.000	-6.803048	-4.582281
Yr2007	-5.93337	.612031	-9.69	0.000	-7.134912	-4.731827
Yr2008	-7.49059	.6534435	-11.46	0.000	-8.773434	-6.207746
Yr2009	-11.75102	.666363	-17.63	0.000	-13.05923	-10.44281
Yr2010	-14.03975	.7279054	-19.29	0.000	-15.46877	-12.61072
Yr2011	-13.90028	.7561361	-18.38	0.000	-15.38473	-12.41583
Yr2012	-13.44851	.7831958	-17.17	0.000	-14.98609	-11.91094
Yr2013	-13.37351	.8005862	-16.70	0.000	-14.94522	-11.80179
Yr2014	-12.95937	.8421785	-15.39	0.000	-14.61274	-11.306
Yr2015	-11.76254	.8844065	-13.30	0.000	-13.49881	-10.02627
_cons	62.05982	1.317101	47.12	0.000	59.47408	64.64556

Source	SS	df	MS
Model	12830.6474	66	194.403749
Residual	1714.70254	733	2.33929405
Total	14545.35	799	18.204443

Number of obs	800
F(66, 733)	83.10
Prob > F	0.0000
R-squared	0.8821
Adj R-squared	0.8715
Root MSE	1.5295

Age25to34	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.2767286	.1202902	2.30	0.022	.0405743	.512883
GSPPerCapita	.0001709	.0000179	9.57	0.000	.0001359	.000206
Alaska	-3.657766	.7900581	-4.63	0.000	-5.208813	-2.10672
Arizona	.1553644	.5458042	0.28	0.776	-.9161615	1.22689
Arkansas	2.619652	.5418264	4.83	0.000	1.555935	3.683368
California	-2.780249	.633088	-4.39	0.000	-4.02313	-1.537367
Colorado	3.820876	.5997375	6.37	0.000	2.643468	4.998285
Connecticut	.2240426	.7391825	0.30	0.762	-1.227125	1.67521
Delaware	.7523433	.7339957	1.02	0.306	-.6886412	2.193328
Florida	2.635154	.5459298	4.83	0.000	1.563381	3.706926
Georgia	1.188096	.5722262	2.08	0.038	.0646984	2.311494
Hawaii	1.986533	.5810957	3.42	0.001	.8457227	3.127343
Idaho	3.074188	.5409227	5.68	0.000	2.012245	4.13613
Illinois	1.189956	.6049469	1.97	0.050	.002321	2.377591
Indiana	2.037058	.5528326	3.68	0.000	.9517339	3.122382
Iowa	8.039549	.564689	14.24	0.000	6.930948	9.14815
Kansas	6.378341	.5918042	10.78	0.000	5.216508	7.540175
Kentucky	.4676277	.5410639	0.86	0.388	-.5945921	1.529847
Louisiana	-1.134476	.5664751	-2.00	0.046	-2.246583	-.022369
Maine	3.812597	.5466463	6.97	0.000	2.739417	4.885776
Maryland	4.668206	.6009992	7.77	0.000	3.488321	5.848091
Massachusetts	1.331613	.6910043	1.93	0.054	-.0249701	2.688197
Michigan	-.4291548	.5490041	-0.78	0.435	-1.506963	.6486532
Minnesota	7.718898	.5974068	12.92	0.000	6.546066	8.891731
Mississippi	.02911	.5482751	0.05	0.958	-1.047267	1.105487
Missouri	5.948776	.5500263	10.82	0.000	4.868962	7.028591
Montana	6.109841	.5416957	11.28	0.000	5.046381	7.173301
Nebraska	8.25462	.5790806	14.25	0.000	7.117766	9.391475
Nevada	1.472569	.5700964	2.58	0.010	.3533523	2.591785
NewHampshire	6.94136	.5685894	12.21	0.000	5.825102	8.057618
NewJersey	.5254913	.6344922	0.83	0.408	-.7201474	1.77113
NewMexico	-2.049546	.5456218	-3.76	0.000	-3.120714	-.978378
NewYork	-2.974328	.6744782	-4.41	0.000	-4.298468	-1.650189
NorthCarolina	1.499084	.5551205	2.70	0.007	.4092685	2.5889
NorthDakota	8.917518	.6008414	14.84	0.000	7.737942	10.09709
Ohio	2.646596	.5561802	4.76	0.000	1.5547	3.738492
Oklahoma	1.403142	.5435574	2.58	0.010	.3360267	2.470257
Oregon	1.118309	.6050312	1.85	0.065	-.0694918	2.30611
Pennsylvania	2.817457	.5615078	5.02	0.000	1.715101	3.919812
RhodeIsland	2.217895	.5768448	3.84	0.000	1.08543	3.35036
SouthCarolina	2.134012	.5407792	3.95	0.000	1.072351	3.195673
SouthDakota	9.276485	.5638742	16.45	0.000	8.169484	10.38349
Tennessee	1.094641	.5461059	2.00	0.045	.0225234	2.16676
Texas	-.0269631	.5846737	-0.05	0.963	-1.174798	1.120871
Utah	2.408124	.5503424	4.38	0.000	1.327689	3.48856
Vermont	6.252275	.5731549	10.91	0.000	5.127054	7.377496
Virginia	3.684989	.593425	6.21	0.000	2.519973	4.850004
Washington	-.1397519	.6507568	-0.21	0.830	-1.417321	1.137818
WestVirginia	-2.220022	.5434148	-4.09	0.000	-3.286857	-1.153187
Wisconsin	7.219089	.5585293	12.93	0.000	6.122582	8.315597
Wyoming	2.959487	.710316	4.17	0.000	1.564991	4.353984
Yr2001	-1.339099	.306505	-4.37	0.000	-1.940831	-.7373662
Yr2002	-2.894704	.3094358	-9.35	0.000	-3.50219	-2.287218
Yr2003	-3.884668	.3149932	-12.33	0.000	-4.503065	-3.266272
Yr2004	-4.418307	.3267258	-13.52	0.000	-5.059737	-3.776877
Yr2005	-4.154157	.3431425	-12.11	0.000	-4.827816	-3.480498
Yr2006	-4.392603	.3639598	-12.07	0.000	-5.107131	-3.678075
Yr2007	-4.438947	.39384	-11.27	0.000	-5.212136	-3.665758
Yr2008	-5.610033	.4204888	-13.34	0.000	-6.435539	-4.784527
Yr2009	-9.090576	.4288024	-21.20	0.000	-9.932403	-8.248748
Yr2010	-10.12668	.4684048	-21.62	0.000	-11.04626	-9.207108
Yr2011	-10.38836	.4865711	-21.35	0.000	-11.3436	-9.433121
Yr2012	-9.967469	.503984	-19.78	0.000	-10.95689	-8.978045
Yr2013	-9.914183	.5151746	-19.24	0.000	-10.92558	-8.902789
Yr2014	-9.404752	.5419391	-17.35	0.000	-10.46869	-8.340814
Yr2015	-9.055234	.5691127	-15.91	0.000	-10.17252	-7.937949
_cons	72.78684	.8475504	85.88	0.000	71.12292	74.45075

Source	SS	df	MS
Model	17600.2826	66	266.670948
Residual	1282.99482	733	1.750334
Total	18883.2774	799	23.6336388

Number of obs	800
F(66, 733)	152.35
Prob > F	0.0000
R-squared	0.9321
Adj R-squared	0.9259
Root MSE	1.323

Age45to54	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
MinimumWage	.027723	.1040515	0.27	0.790	-.1765514	.2319975
GSPPerCapita	.0001233	.0000154	7.99	0.000	.000093	.0001537
Alaska	3.162712	.6834033	4.63	0.000	1.821051	4.504373
Arizona	3.235953	.4721228	6.85	0.000	2.309079	4.162827
Arkansas	1.064403	.468682	2.27	0.023	.1442835	1.984522
California	1.431515	.5476236	2.61	0.009	.3564174	2.506613
Colorado	7.367364	.5187753	14.20	0.000	6.348902	8.385827
Connecticut	5.73031	.6393957	8.96	0.000	4.475045	6.985575
Delaware	3.675475	.6349091	5.79	0.000	2.429018	4.921932
Florida	3.992764	.4722314	8.46	0.000	3.065676	4.919851
Georgia	3.311256	.4949779	6.69	0.000	2.339513	4.283
Hawaii	7.624644	.50265	15.17	0.000	6.637839	8.61145
Idaho	8.931615	.4679003	19.09	0.000	8.013031	9.8502
Illinois	4.708923	.5232815	9.00	0.000	3.681614	5.736232
Indiana	5.637244	.4782024	11.79	0.000	4.698434	6.576054
Iowa	11.94736	.4884582	24.46	0.000	10.98842	12.90631
Kansas	9.381498	.5119129	18.33	0.000	8.376508	10.38649
Kentucky	-.9958282	.4680224	-2.13	0.034	-1.914652	-.077004
Louisiana	-.634551	.4900032	-1.29	0.196	-1.596528	.327426
Maine	7.044694	.4728512	14.90	0.000	6.11639	7.972998
Maryland	7.788923	.5198666	14.98	0.000	6.768318	8.809528
Massachusetts	4.67321	.5977214	7.82	0.000	3.49976	5.84666
Michigan	2.637382	.4748907	5.55	0.000	1.705074	3.56969
Minnesota	11.00838	.5167592	21.30	0.000	9.993873	12.02288
Mississippi	.0565384	.4742601	0.12	0.905	-.8745317	.9876085
Missouri	5.235641	.4757749	11.00	0.000	4.301597	6.169685
Montana	7.88513	.4685689	16.83	0.000	6.965233	8.805027
Nebraska	12.39958	.500907	24.75	0.000	11.41619	13.38296
Nevada	3.335619	.4931356	6.76	0.000	2.367492	4.303746
NewHampshire	10.69868	.491832	21.75	0.000	9.733108	11.66424
NewJersey	4.563909	.5488382	8.32	0.000	3.486427	5.641391
NewMexico	1.9989	.471965	4.24	0.000	1.072335	2.925464
NewYork	1.058175	.5834263	1.81	0.070	-.0872107	2.203561
NorthCarolina	3.127691	.4801814	6.51	0.000	2.184996	4.070385
NorthDakota	13.35327	.5197301	25.69	0.000	12.33293	14.3736
Ohio	4.369961	.481098	9.08	0.000	3.425466	5.314455
Oklahoma	4.337702	.4701793	9.23	0.000	3.414643	5.260761
Oregon	3.692563	.5233544	7.06	0.000	2.66511	4.720015
Pennsylvania	5.518785	.4857064	11.36	0.000	4.565243	6.472326
RhodeIsland	6.031377	.498973	12.09	0.000	5.05179	7.010963
SouthCarolina	2.50682	.4677761	5.36	0.000	1.588479	3.42516
SouthDakota	13.32738	.4877534	27.32	0.000	12.36982	14.28494
Tennessee	1.366772	.4723837	2.89	0.004	.4393853	2.294158
Texas	3.818251	.505745	7.55	0.000	2.82537	4.811133
Utah	7.805847	.4760483	16.40	0.000	6.871267	8.740428
Vermont	11.27859	.4957812	22.75	0.000	10.30527	12.25191
Virginia	6.924103	.5133149	13.49	0.000	5.91636	7.931845
Washington	4.952721	.5629071	8.80	0.000	3.847618	6.057823
WestVirginia	-4.651138	.4700559	-9.89	0.000	-5.573954	-3.728322
Wisconsin	10.25201	.48313	21.22	0.000	9.303529	11.2005
Wyoming	9.270298	.6144261	15.09	0.000	8.064053	10.47654
Yr2001	-.7285003	.265128	-2.75	0.006	-1.249001	-.2079995
Yr2002	-1.790539	.2676632	-6.69	0.000	-2.316017	-1.265061
Yr2003	-2.05482	.2724703	-7.54	0.000	-2.589736	-1.519905
Yr2004	-2.506588	.2826191	-8.87	0.000	-3.061427	-1.951748
Yr2005	-2.435401	.2968196	-8.20	0.000	-3.018119	-1.852683
Yr2006	-2.377069	.3148266	-7.55	0.000	-2.995139	-1.759
Yr2007	-2.589666	.3406731	-7.60	0.000	-3.258478	-1.920855
Yr2008	-3.486993	.3637244	-9.59	0.000	-4.201059	-2.772927
Yr2009	-5.957381	.3709158	-16.06	0.000	-6.685565	-5.229197
Yr2010	-7.033902	.405172	-17.36	0.000	-7.829338	-6.238466
Yr2011	-7.211238	.4208859	-17.13	0.000	-8.037524	-6.384952
Yr2012	-7.018435	.4359481	-16.10	0.000	-7.874291	-6.162579
Yr2013	-7.50545	.4456281	-16.84	0.000	-8.38031	-6.630591
Yr2014	-6.938487	.4687794	-14.80	0.000	-7.858797	-6.018176
Yr2015	-6.61598	.4922847	-13.44	0.000	-7.582436	-5.649524
_cons	71.84404	.7331344	98.00	0.000	70.40475	73.28334