

UMR has a value to a variable coefficient of -0.17. This means UMR shows changes of 1% would lower the open unemployment rate amounted to 0.17%. The relationship is inversely proportional since due to the nature of the relationship UMR negative towards the open unemployment rate.

- The influence of population on the open unemployment rate
A population variable has coefficient value of 0.7665. This means showing population change by 1% would increase the open unemployment rate of 0.76%.The proportional relationship because due to the nature of the population is a positive relationship towards the open unemployment rate.

5. CONCLUSION

This study is intended to look at the effect of GDP, UMR and the population against the open unemployment rate in West Java in 2010-2013. Based on the results of data analysis has been done, it can be concluded as follows:

1. The result of the coefficient of determination (R^2) was obtained 0.7318. This value means that the model is fairly well established that 73.18% of the variation unemployment level open the dependent variable can be explained very well by all three independent factors, namely GDP, UMR and Population. The remaining portion of 26.82% is explained by variables outside the model used. GDP variable has a positive and significant impact on the level of unemployment. This is because the increase in GDP is an indicator of economic growth that is not in line with the increase in production capacity will cause the number of unemployed continues to rise. UMR variable has a negative and significant effect on the level of unemployment. This can be assumed to be an excess supply of labor supply and labor demand in the formal sector into decline when the minimum wage increases so that the excess supply of labor to migrate to the informal sector. Variable population has a positive and significant influence. It is caused due to the higher population in West Java will cause a higher rate of open unemployment.

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6. APPENDICES

The data used in this studies are :

| | | lnpdrb | lnpopulasi | lnUMR | lnTPT |
|---|------|-------------|-------------|-------------|-------------|
| a | 2010 | 16.89441883 | 14.97066038 | 13.50762578 | 11.93882045 |
| a | 2011 | 16.95214486 | 15.11651769 | 14.01747133 | 11.88562631 |
| a | 2012 | 17.01186364 | 14.98972958 | 14.10693537 | 12.06436506 |
| a | 2013 | 17.0841843 | 15.04089499 | 14.36679056 | 11.97347202 |
| b | 2010 | 15.89996725 | 14.22780827 | 13.91555949 | 11.26716558 |
| b | 2011 | 15.95587491 | 14.43294178 | 14.02819238 | 11.03275836 |
| b | 2012 | 16.01453906 | 14.24560454 | 14.14940734 | 11.09067527 |
| b | 2013 | 16.08685972 | 14.29453277 | 14.36851943 | 11.05510334 |
| c | 2010 | 17.82265112 | 14.78232367 | 13.971637 | 11.64042998 |
| c | 2011 | 20.1859816 | 14.60952292 | 14.21553824 | 11.72017538 |
| c | 2012 | 17.9437377 | 14.80044301 | 14.50965724 | 11.44437892 |
| c | 2013 | 18.01605836 | 14.9148266 | 14.71055518 | 11.49192652 |
| d | 2010 | 17.29756416 | 15.37826181 | 13.8708639 | 12.23092134 |
| d | 2011 | 17.35723625 | 15.41825029 | 14.05399188 | 12.31330241 |
| d | 2012 | 17.41366474 | 15.39605752 | 14.50965724 | 12.20080379 |
| d | 2013 | 17.4859854 | 15.44705609 | 14.62298592 | 12.11246502 |
| e | 2010 | 15.82101717 | 14.35799763 | 13.45857129 | 10.57075266 |
| e | 2011 | 15.87080835 | 14.38061753 | 13.58452383 | 11.05122328 |
| e | 2012 | 15.9195502 | 14.26020984 | 13.65777429 | 10.63983789 |
| e | 2013 | 15.99187086 | 14.13239652 | 13.85562318 | 10.71303904 |
| f | 2010 | 15.9317521 | 14.59082787 | 13.51912404 | 11.56330484 |
| f | 2011 | 15.97808721 | 14.78321506 | 13.68369198 | 11.48760766 |
| f | 2012 | 16.02759802 | 14.60862388 | 13.78505135 | 11.64523361 |
| f | 2013 | 16.09991868 | 14.62657632 | 14.22097567 | 11.88815127 |
| g | 2010 | 15.91111146 | 14.54070955 | 13.62313867 | 11.62095442 |
| g | 2011 | 15.96019264 | 14.68620207 | 13.77119288 | 11.44962351 |
| g | 2012 | 16.00715616 | 14.55949961 | 13.89367458 | 11.8888519 |
| g | 2013 | 16.07947682 | 14.64540427 | 14.00840107 | 11.80225368 |
| h | 2010 | 16.22548055 | 14.69392745 | 13.5670492 | 11.15261535 |
| h | 2011 | 16.27881105 | 14.81119862 | 13.68767719 | 11.38931046 |
| h | 2012 | 16.31731874 | 14.71049062 | 13.77988338 | 11.06371221 |
| h | 2013 | 16.3896394 | 14.74194289 | 13.89709054 | 11.31107852 |
| i | 2010 | 16.47970375 | 14.32444399 | 13.65785625 | 11.36568916 |
| i | 2011 | 16.52712938 | 14.50941745 | 13.81036132 | 11.27743095 |
| i | 2012 | 16.57649869 | 14.3423729 | 13.93329359 | 11.02758888 |
| i | 2013 | 16.64881935 | 14.34081703 | 14.0594915 | 11.24505909 |
| j | 2010 | 16.88890645 | 14.57059491 | 13.92077107 | 11.85895899 |
| j | 2011 | 16.96017969 | 14.59957556 | 14.05391861 | 11.49699931 |

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| | | | | | |
|---|------|-------------|-------------|-------------|-------------|
| j | 2012 | 17.04786068 | 14.58839086 | 14.50865774 | 11.66448708 |
| j | 2013 | 17.12018134 | 14.61543959 | 14.71055722 | 11.47818908 |
| k | 2010 | 15.19353809 | 13.93095842 | 13.45883561 | 10.48170076 |
| k | 2011 | 15.24639628 | 14.05384612 | 13.59859756 | 10.6491323 |
| k | 2012 | 15.29256978 | 13.86827662 | 13.68197917 | 10.45184015 |
| k | 2013 | 15.36489045 | 13.94513345 | 13.81750856 | 10.59197389 |
| l | 2010 | 15.3034326 | 13.96971809 | 13.48700649 | 10.41199048 |
| l | 2011 | 15.34910447 | 14.03339149 | 13.59236701 | 10.63207427 |
| l | 2012 | 15.39559463 | 13.98729092 | 13.65299163 | 10.59805872 |
| l | 2013 | 15.46791529 | 13.98168071 | 13.81551056 | 10.68352319 |
| m | 2010 | 15.79577796 | 14.57059491 | 13.69897674 | 10.5065459 |
| m | 2011 | 15.85783041 | 13.74127289 | 13.86191693 | 10.48170076 |
| m | 2012 | 15.91899804 | 13.67374882 | 14.3421113 | 10.5546141 |
| m | 2013 | 15.9913187 | 13.70825937 | 14.5574479 | 10.53470614 |
| n | 2010 | 15.80848476 | 14.20585052 | 13.52301693 | 10.98634302 |
| n | 2011 | 15.85686309 | 14.29737359 | 13.66759043 | 11.04221759 |
| n | 2012 | 15.90111358 | 14.21526875 | 14.01436142 | 11.00786652 |
| n | 2013 | 15.97343424 | 14.22735925 | 14.2716428 | 10.85907592 |
| o | 2010 | 15.97211382 | 14.66626344 | 13.41726929 | 11.4530693 |
| o | 2011 | 16.01195961 | 14.76158919 | 13.69334292 | 11.48075345 |
| o | 2012 | 16.05443909 | 15.29334664 | 13.9986651 | 11.54677602 |
| o | 2013 | 16.12675975 | 14.69448024 | 14.26398535 | 11.60291241 |
| p | 2010 | 15.53983648 | 13.96892154 | 13.66698039 | 10.63224316 |
| p | 2011 | 15.58691306 | 13.98456702 | 13.82298257 | 10.5955091 |
| p | 2012 | 15.63270822 | 13.92278344 | 14.13882518 | 10.57403119 |
| p | 2013 | 15.70502888 | 14.08374066 | 14.2716428 | 10.40843594 |
| q | 2010 | 15.52334044 | 14.33164845 | 13.45857129 | 11.06479291 |
| q | 2011 | 15.56560549 | 14.36845212 | 13.75999785 | 11.02195149 |
| q | 2012 | 15.6416072 | 14.34952308 | 13.84991198 | 10.64002942 |
| q | 2013 | 15.71392786 | 14.36825191 | 14.06184628 | 10.89340042 |
| r | 2010 | 17.27174149 | 14.68884076 | 13.87425105 | 11.78564363 |
| r | 2011 | 17.35541515 | 14.74635448 | 14.05580617 | 11.88562631 |
| r | 2012 | 17.44140546 | 14.70663691 | 14.24645041 | 11.58559955 |
| r | 2013 | 17.51372612 | 14.72537146 | 14.50865774 | 11.77568965 |
| s | 2010 | 13.5276258 | 12.12834351 | 13.44415698 | 8.351846739 |
| s | 2011 | 13.57973506 | 12.16994275 | 13.5670492 | 8.616133139 |
| s | 2012 | 13.63096493 | 12.09123402 | 13.76421726 | 8.530504205 |
| s | 2013 | 13.70328559 | 12.95414826 | 13.84020317 | 8.62389281 |
| t | 2010 | 16.55480797 | 14.6634672 | 13.9596109 | 11.72046795 |
| t | 2011 | 16.62319732 | 14.55687869 | 14.16775209 | 11.66384235 |
| t | 2012 | 16.68943677 | 14.68126308 | 14.5574479 | 11.4475973 |

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| | | | | | |
|---|------|-------------|-------------|-------------|-------------|
| t | 2013 | 16.76175743 | 14.76825626 | 14.7083091 | 11.62358989 |
| u | 2010 | 15.38108728 | 13.76323362 | 13.9596109 | 11.18462971 |
| u | 2011 | 15.44111371 | 13.68676427 | 13.97609762 | 10.71408438 |
| u | 2012 | 15.5003546 | 13.78236527 | 14.50965724 | 10.58195247 |
| u | 2013 | 15.57267526 | 13.82844455 | 14.67092539 | 10.68866682 |
| v | 2010 | 15.68874448 | 13.20150168 | 13.91743879 | 10.42353057 |
| v | 2011 | 15.74285252 | 13.31578807 | 14.01799579 | 10.16569796 |
| v | 2012 | 15.793941 | 13.21929769 | 14.10693537 | 9.959347902 |
| v | 2013 | 15.86626166 | 13.25512873 | 14.36679056 | 10.3041411 |
| w | 2010 | 15.47314093 | 12.59731712 | 13.64115717 | 9.617271072 |
| w | 2011 | 17.83333301 | 12.7058444 | 13.79530785 | 9.566615236 |
| w | 2012 | 15.58489643 | 12.61722488 | 13.89478374 | 9.720525791 |
| w | 2013 | 15.65721709 | 12.62581206 | 14.01967514 | 9.458059456 |
| x | 2010 | 15.69028155 | 14.36741958 | 13.96134101 | 11.08324963 |
| x | 2011 | 15.7540368 | 14.39387127 | 14.16953991 | 11.36659248 |
| x | 2012 | 15.823142 | 14.38636976 | 14.52944028 | 11.26560448 |
| x | 2013 | 15.89546267 | 14.48956768 | 14.68972851 | 9.608310798 |
| y | 2010 | 14.46821432 | 12.61124771 | 13.65299163 | 9.731571668 |
| y | 2011 | 14.52942559 | 12.7092632 | 13.69897674 | 9.507551895 |
| y | 2012 | 14.5809277 | 12.62492771 | 13.86430072 | 9.57366317 |
| y | 2013 | 14.65324836 | 12.65018779 | 14.11561515 | 9.608310798 |
| z | 2010 | 15.17101653 | 13.36047278 | 13.56061831 | 10.05195066 |
| z | 2011 | 15.22753163 | 13.60294338 | 13.76421726 | 10.14741364 |
| z | 2012 | 15.23906048 | 13.37990681 | 13.85952744 | 9.940253332 |
| z | 2013 | 15.31138114 | 13.40253129 | 14.02819965 | 9.912149926 |

Source: data processed