



```

{smcl}
{com}{sf}{ul off}{txt}{.-}
      name: {res}<unnamed>
      {txt}log: {res}C:\Users\Gadai Bulgac\Downloads\EconomicEnvironmental.smcl
      {txt}log type: {res}smcl
      {txt}opened on: {res}12 Jul 2024, 20:59:02
{txt}
{com}.
1 . gen loggdp = log(gdp)
{txt}(5 missing values generated)

{com}.
2 . xtile gdpquartile = gdp, nq(4)
{txt}
{com}.
3 . correlate environmental economic
{txt}(obs=174)

      {c |} enviro~1 economic
{hline 13}{c +}{hline 18}
environmen~1 {c |}{res} 1.0000
      {txt}economic {c |}{res} 0.6109 1.0000

{txt}
{com}. scatter environmental economic
{res}{txt}
{com}.
4 . correlate environmental gdp
{txt}(obs=176)

      {c |} enviro~1 gdp
{hline 13}{c +}{hline 18}
environmen~1 {c |}{res} 1.0000
      {txt}gdp {c |}{res} 0.6408 1.0000

{txt}
{com}. scatter environmental gdp
{res}{txt}
{com}.
5 . correlate environmental loggdp
{txt}(obs=176)

      {c |} enviro~1 loggdp
{hline 13}{c +}{hline 18}
environmen~1 {c |}{res} 1.0000
      {txt}loggdp {c |}{res} 0.7109 1.0000

{txt}
{com}. scatter environmental loggdp
{res}{txt}
{com}.
6 . correlate gdp economic
{txt}(obs=171)

      {c |} gdp economic
{hline 13}{c +}{hline 18}
gdp {c |}{res} 1.0000
      {txt}economic {c |}{res} 0.7110 1.0000

{txt}
{com}. scatter gdp economic
{res}{txt}
{com}.

```

```
7 . correlate loggdp economic
{txt}(obs=171)
```

```
      {c |}      loggdp economic
{hline 13}{c +}{hline 18}
      loggdp {c |}{res}      1.0000
      {txt}economic {c |}{res}      0.7584      1.0000
```

```
{txt}
{com}. scatter loggdp economic
{res}{txt}
{com}.
```

```
8 . regress environmental economic
```

```
{txt}      Source {c |}      SS      df      MS      Number of obs      ={res}
>      174
{txt}{hline 13}{c +}{hline 34}      F(1, 172)      = {res}      102.40
{txt}      Model {c |} {res} 9940.54333      1 9940.54333      {txt}Prob > F
> ={res}      0.0000
{txt}      Residual {c |} {res}      16696.29      172 97.0714537      {txt}R-squared
> ={res}      0.3732
{txt}{hline 13}{c +}{hline 34}      Adj R-squared      ={res}      0.3695
{txt}      Total {c |} {res} 26636.8334      173 153.970135      {txt}Root MSE
> =      {res} 9.8525
```

```
{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38}      t{col 46}
>      P>|t|{col 54}      [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .7314981{col 26}{space 2} .0722859{col 3
> 7}{space 1}      10.12{col 46}{space 3}0.000{col 54}{space 4} .5888163{col 67}{space 3}
>      .8741798
{txt}{space 7}_cons {c |}{col 14}{res}{space 2}-.5152611{col 26}{space 2} 4.375211{col
> 37}{space 1}      -0.12{col 46}{space 3}0.906{col 54}{space 4} -9.15128{col 67}{space
> 3} 8.120758
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.
```

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9 . regress environmental gdp
```

```
{txt}      Source {c |}      SS      df      MS      Number of obs      ={res}
>      176
{txt}{hline 13}{c +}{hline 34}      F(1, 174)      = {res}      121.24
{txt}      Model {c |} {res} 11048.6439      1 11048.6439      {txt}Prob > F
> ={res}      0.0000
{txt}      Residual {c |} {res} 15856.8611      174 91.1313856      {txt}R-squared
> ={res}      0.4106
{txt}{hline 13}{c +}{hline 34}      Adj R-squared      ={res}      0.4073
{txt}      Total {c |} {res} 26905.505      175 153.745743      {txt}Root MSE
> =      {res} 9.5463
```

```
{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38}      t{col 46}
>      P>|t|{col 54}      [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 9}gdp {c |}{col 14}{res}{space 2} .0003434{col 26}{space 2} .0000312{col 37}{sp
> ace 1}      11.01{col 46}{space 3}0.000{col 54}{space 4} .0002818{col 67}{space 3} .000
> 4049
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 37.47999{col 26}{space 2} .8828445{col
> 37}{space 1}      42.45{col 46}{space 3}0.000{col 54}{space 4} 35.73753{col 67}{space
> 3} 39.22246
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.
```

## 10. regress gdp economic

```

{txt}          Source {c |}          SS          df          MS          Number of obs    ={res}
>          171
{txt}{hline 13}{c +}{hline 34}      F(1, 169)          = {res}      172.73
{txt}          Model {c |} {res} 4.7097e+10          1  4.7097e+10    {txt}Prob > F
> ={res}      0.0000
{txt}          Residual {c |} {res} 4.6079e+10          169  272656801    {txt}R-squared
> ={res}      0.5055
{txt}{hline 13}{c +}{hline 34}      Adj R-squared    ={res}      0.5025
{txt}          Total {c |} {res} 9.3176e+10          170  548095747    {txt}Root MSE
> =          {res} 16512

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}          gdp{col 14}{c |} Coefficient{col 26} Std. err.{col 38}          t{col 46}
>          P>|t|{col 54}          [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} 1754.068{col 26}{space 2} 133.4617{col 3
> 7}{space 1}      13.14{col 46}{space 3}0.000{col 54}{space 4} 1490.601{col 67}{space 3}
>      2017.534
{txt}{space 7}_cons {c |}{col 14}{res}{space 2}-88683.12{col 26}{space 2} 8112.354{col
> 37}{space 1}      -10.93{col 46}{space 3}0.000{col 54}{space 4}-104697.7{col 67}{space
> 3}-72668.52
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.

```

## 11. regress loggdp economic

```

{txt}          Source {c |}          SS          df          MS          Number of obs    ={res}
>          171
{txt}{hline 13}{c +}{hline 34}      F(1, 169)          = {res}      228.77
{txt}          Model {c |} {res} 196.459185          1  196.459185    {txt}Prob > F
> ={res}      0.0000
{txt}          Residual {c |} {res} 145.133322          169  .858777055    {txt}R-squared
> ={res}      0.5751
{txt}{hline 13}{c +}{hline 34}      Adj R-squared    ={res}      0.5726
{txt}          Total {c |} {res} 341.592507          170  2.00936769    {txt}Root MSE
> =          {res} .9267

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}          loggdp{col 14}{c |} Coefficient{col 26} Std. err.{col 38}          t{col 46}
>          P>|t|{col 54}          [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .1132882{col 26}{space 2} .0074901{col 3
> 7}{space 1}      15.13{col 46}{space 3}0.000{col 54}{space 4} .0985019{col 67}{space 3}
>      .1280744
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 2.020034{col 26}{space 2} .4552804{col
> 37}{space 1}      4.44{col 46}{space 3}0.000{col 54}{space 4} 1.121265{col 67}{space
> 3} 2.918803
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.

```

## 12. regress environmental loggdp

```

{txt}          Source {c |}          SS          df          MS          Number of obs    ={res}
>          176
{txt}{hline 13}{c +}{hline 34}      F(1, 174)          = {res}      177.74
{txt}          Model {c |} {res} 13595.6864          1  13595.6864    {txt}Prob > F
> ={res}      0.0000
{txt}          Residual {c |} {res} 13309.8185          174  76.4932098    {txt}R-squared
> ={res}      0.5053
{txt}{hline 13}{c +}{hline 34}      Adj R-squared    ={res}      0.5025
{txt}          Total {c |} {res} 26905.505          175  153.745743    {txt}Root MSE
> =          {res} 8.746

```

```
{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 6}loggdp {c |}{col 14}{res}{space 2} 6.21736{col 26}{space 2} .4663552{col 37}
> {space 1} 13.33{col 46}{space 3}0.000{col 54}{space 4} 5.296918{col 67}{space 3} 7
> .137801
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} -11.6755{col 26}{space 2} 4.162071{col
> 37}{space 1} -2.81{col 46}{space 3}0.006{col 54}{space 4}-19.89014{col 67}{space
> 3}-3.460859
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.
```

## 13. regress environmental economic gdp

```
{txt} Source {c |} SS df MS Number of obs ={res}
> 170
{txt}{hline 13}{c +}{hline 34} F(2, 167) = {res} 87.10
{txt} Model {c |} {res} 13515.3375 2 6757.66877 {txt}Prob > F
> ={res} 0.0000
{txt} Residual {c |} {res} 12956.4022 167 77.5832467 {txt}R-squared
> ={res} 0.5106
{txt}{hline 13}{c +}{hline 34} Adj R-squared ={res} 0.5047
{txt} Total {c |} {res} 26471.7397 169 156.637513 {txt}Root MSE
> = {res} 8.8081

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .573323{col 26}{space 2} .1013397{col 3
> 7}{space 1} 5.66{col 46}{space 3}0.000{col 54}{space 4} .3732511{col 67}{space 3}
> .773395
{txt}{space 9}gdp {c |}{col 14}{res}{space 2} .0001788{col 26}{space 2} .0000411{col 3
> 7}{space 1} 4.35{col 46}{space 3}0.000{col 54}{space 4} .0000977{col 67}{space 3}
> .00026
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 5.709496{col 26}{space 2} 5.656998{col
> 37}{space 1} 1.01{col 46}{space 3}0.314{col 54}{space 4}-5.458951{col 67}{space
> 3} 16.87794
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.
```

## 14. regress environmental economic loggdp

```
{txt} Source {c |} SS df MS Number of obs ={res}
> 170
{txt}{hline 13}{c +}{hline 34} F(2, 167) = {res} 106.90
{txt} Model {c |} {res} 14862.2588 2 7431.12942 {txt}Prob > F
> ={res} 0.0000
{txt} Residual {c |} {res} 11609.4809 167 69.5178497 {txt}R-squared
> ={res} 0.5614
{txt}{hline 13}{c +}{hline 34} Adj R-squared ={res} 0.5562
{txt} Total {c |} {res} 26471.7397 169 156.637513 {txt}Root MSE
> = {res} 8.3377

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .3878861{col 26}{space 2} .1034167{col 3
> 7}{space 1} 3.75{col 46}{space 3}0.000{col 54}{space 4} .1837135{col 67}{space 3}
> .5920588
{txt}{space 6}loggdp {c |}{col 14}{res}{space 2} 4.406268{col 26}{space 2} .6923434{co
> 1 37}{space 1} 6.36{col 46}{space 3}0.000{col 54}{space 4} 3.039394{col 67}{space
> 3} 5.773141
{txt}{space 7}_cons {c |}{col 14}{res}{space 2}-19.04916{col 26}{space 2} 4.328749{col
> 37}{space 1} -4.40{col 46}{space 3}0.000{col 54}{space 4}-27.59529{col 67}{space
> 3}-10.50304
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.
```

## 15. regress environmental economic gdpquartile

```

{txt}      Source {c |}      SS      df      MS      Number of obs      ={res}
>      170
{txt}{hline 13}{c +}{hline 34}      F(2, 167)      = {res}      109.87
{txt}      Model {c |} {res} 15040.6613      2      7520.33064      {txt}Prob > F
> ={res}      0.0000
{txt}      Residual {c |} {res} 11431.0785      167      68.4495716      {txt}R-squared
> ={res}      0.5682
{txt}{hline 13}{c +}{hline 34}      Adj R-squared      ={res}      0.5630
{txt}      Total {c |} {res} 26471.7397      169      156.637513      {txt}Root MSE
> =      {res} 8.2734

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38}      t{col 46}
>      P>|t|{col 54}      [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .4226562{col 26}{space 2} .0969723{col 3
> 7}{space 1}      4.36{col 46}{space 3}0.000{col 54}{space 4} .2312066{col 67}{space 3}
>      .6141058
{txt}{space 1}gdpquartile {c |}{col 14}{res}{space 2} 5.368158{col 26}{space 2} .81165
> 83{col 37}{space 1}      6.61{col 46}{space 3}0.000{col 54}{space 4} 3.765724{col 67}{
> space 3} 6.970591
{txt}{space 7} cons {c |}{col 14}{res}{space 2} 4.290824{col 26}{space 2} 4.61361{col
> 37}{space 1}      0.93{col 46}{space 3}0.354{col 54}{space 4}-4.817692{col 67}{space
> 3} 13.39934
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.

```

## 16. regress environmental economic if gdpquartile == 1

```

{txt}      Source {c |}      SS      df      MS      Number of obs      ={res}
>      44
{txt}{hline 13}{c +}{hline 34}      F(1, 42)      = {res}      0.00
{txt}      Model {c |} {res} .000056365      1      .000056365      {txt}Prob > F
> ={res}      0.9990
{txt}      Residual {c |} {res} 1554.19162      42      37.0045623      {txt}R-squared
> ={res}      0.0000
{txt}{hline 13}{c +}{hline 34}      Adj R-squared      ={res}      -0.0238
{txt}      Total {c |} {res} 1554.19167      43      36.1439924      {txt}Root MSE
> =      {res} 6.0831

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38}      t{col 46}
>      P>|t|{col 54}      [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .0002057{col 26}{space 2} .1666557{col 3
> 7}{space 1}      0.00{col 46}{space 3}0.999{col 54}{space 4}-.3361192{col 67}{space 3}
>      .3365306
{txt}{space 7} cons {c |}{col 14}{res}{space 2} 33.26885{col 26}{space 2} 8.715239{col
> 37}{space 1}      3.82{col 46}{space 3}0.000{col 54}{space 4} 15.68078{col 67}{space
> 3} 50.85691
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}. regress environmental economic if gdpquartile == 2

```

```

{txt}      Source {c |}      SS      df      MS      Number of obs      ={res}
>      40
{txt}{hline 13}{c +}{hline 34}      F(1, 38)      = {res}      0.46
{txt}      Model {c |} {res} 31.0571696      1      31.0571696      {txt}Prob > F
> ={res}      0.5039
{txt}      Residual {c |} {res} 2591.55271      38      68.1987555      {txt}R-squared
> ={res}      0.0118
{txt}{hline 13}{c +}{hline 34}      Adj R-squared      ={res}      -0.0142
{txt}      Total {c |} {res} 2622.60988      39      67.2464072      {txt}Root MSE
> =      {res} 8.2583

```

```

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .1314763{col 26}{space 2} .1948295{col 3
> 7}{space 1} 0.67{col 46}{space 3}0.504{col 54}{space 4}-.2629355{col 67}{space 3}
> .5258881
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 29.26388{col 26}{space 2} 11.06328{col
> 37}{space 1} 2.65{col 46}{space 3}0.012{col 54}{space 4} 6.867447{col 67}{space
> 3} 51.66031
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}. regress environmental economic if gdpquartile == 3

{txt}          Source {c |}          SS          df          MS          Number of obs    ={res}
>          42
{txt}{hline 13}{c +}{hline 34}      F(1, 40)          = {res}          8.16
{txt}          Model {c |} {res} 388.165967          1 388.165967 {txt}Prob > F
> ={res}          0.0068
{txt}          Residual {c |} {res} 1902.01693          40 47.5504231 {txt}R-squared
> ={res}          0.1695
{txt}{hline 13}{c +}{hline 34}      Adj R-squared    ={res}          0.1487
{txt}          Total {c |} {res} 2290.18289          41 55.8581193 {txt}Root MSE
> = {res} 6.8957

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .4713122{col 26}{space 2} .1649594{col 3
> 7}{space 1} 2.86{col 46}{space 3}0.007{col 54}{space 4} .1379167{col 67}{space 3}
> .8047076
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 16.44176{col 26}{space 2} 10.07176{col
> 37}{space 1} 1.63{col 46}{space 3}0.110{col 54}{space 4}-3.914015{col 67}{space
> 3} 36.79754
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}. regress environmental economic if gdpquartile == 4

{txt}          Source {c |}          SS          df          MS          Number of obs    ={res}
>          44
{txt}{hline 13}{c +}{hline 34}      F(1, 42)          = {res}          11.26
{txt}          Model {c |} {res} 1161.38659          1 1161.38659 {txt}Prob > F
> ={res}          0.0017
{txt}          Residual {c |} {res} 4332.37483          42 103.151782 {txt}R-squared
> ={res}          0.2114
{txt}{hline 13}{c +}{hline 34}      Adj R-squared    ={res}          0.1926
{txt}          Total {c |} {res} 5493.76142          43 127.761893 {txt}Root MSE
> = {res} 10.156

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{col 1}environmen~l{col 14}{c |} Coefficient{col 26} Std. err.{col 38} t{col 46}
> P>|t|{col 54} [95% con{col 67}f. interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 4}economic {c |}{col 14}{res}{space 2} .7639695{col 26}{space 2} .2276806{col 3
> 7}{space 1} 3.36{col 46}{space 3}0.002{col 54}{space 4} .3044915{col 67}{space 3}
> 1.223448
{txt}{space 7}_cons {c |}{col 14}{res}{space 2} 2.912793{col 26}{space 2} 16.18101{col
> 37}{space 1} 0.18{col 46}{space 3}0.858{col 54}{space 4} -29.7418{col 67}{space
> 3} 35.56738
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{res}{txt}
{com}.

```

```
17. translate EconomicEnvironmental.do EconomicEnvironmentalGDPdo.pdf, translator(txt2pd
> f) replace
{txt}{p 0 4 2}
file {bf}
EconomicEnvironmentalGDPdo.pdf{rm}
saved as
PDF
format
{p_end}
```