# Homework 3

Hefang Deng

Full sample:
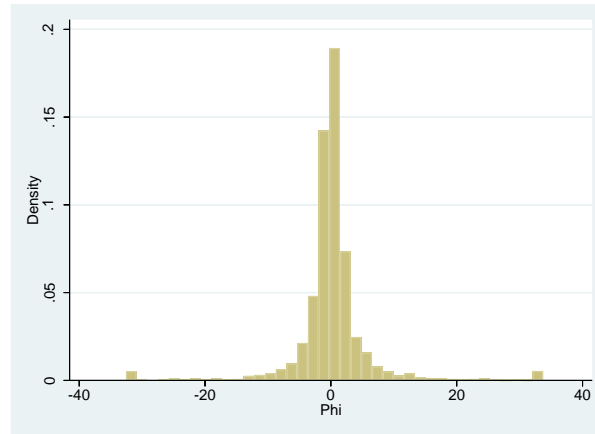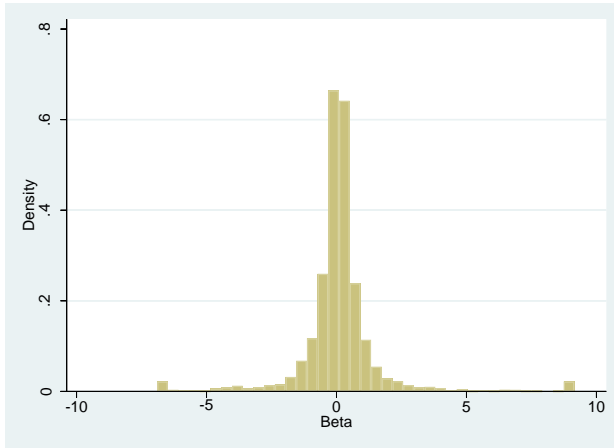
Rural:
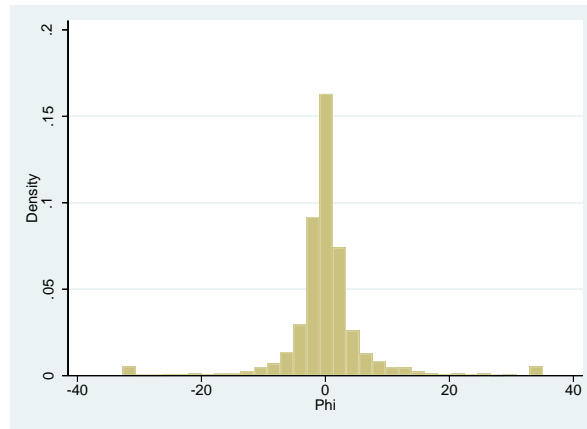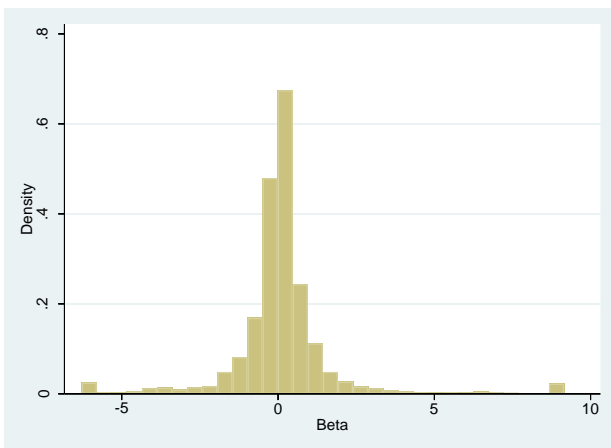
Urban:
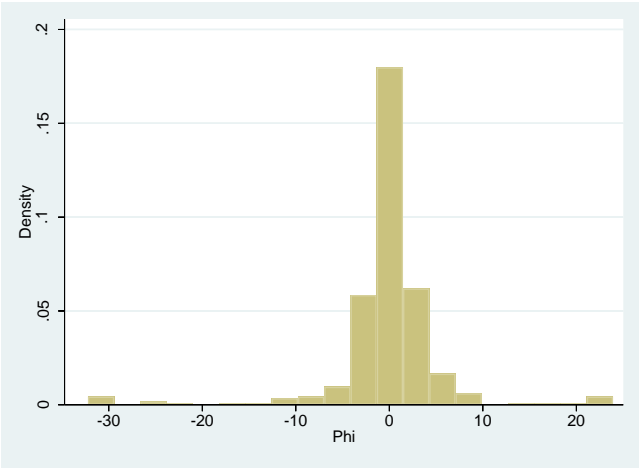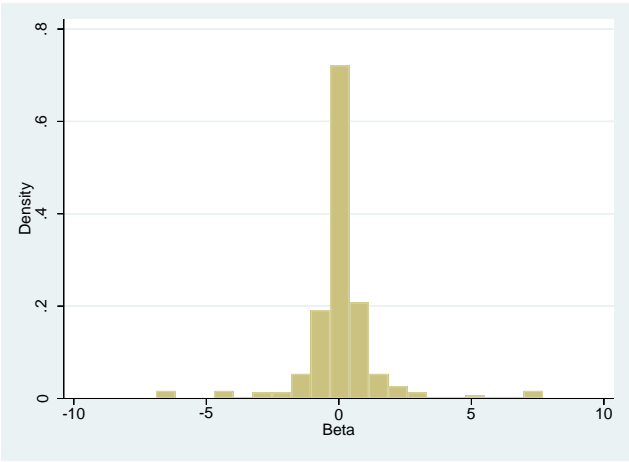
Full Sample:

	Mean	Median
Beta	.097071	.0730629
Phi	.1602916	.1169135

Rural:

	Mean	Median
Beta	.1022576	.0726832
Phi	.1266798	.0240498

Urban:

	Mean	Median
Beta	.087095	.0840068
Phi	-.1119628	.1389507

Full Sample:

	Q1	Q2	Q3	Q4	Q5
Mean	0.192433	0.045458	0.060238	0.081547	0.130237
Median	0.081848	0.056055	0.077078	0.06343	0.095498

Rural:

	Q1	Q2	Q3	Q4	Q5
Mean	0.138386	0.062058	0.058326	0.068723	0.194019
Median	0.063862	0.088524	0.073243	0.045123	0.093094

Urban:

	Q1	Q2	Q3	Q4	Q5
Mean	0.662334	0.000983	0.139569	-0.09057	0.040867
Median	0.160269	-0.02152	0.16594	0.017796	0.098076

For the income:

Full sample:

	Q1	Q2	Q3	Q4	Q5
Mean	1465.438	1492.856	1475.429	1314.069	1342.186
Median	837.1053	907.0174	912.4619	866.2546	859.3824

Rural:

	Q1	Q2	Q3	Q4	Q5
Mean	1384.119	1493.21	1311.906	1245.34	1335.678
Median	818.5401	908.2675	848.4553	856.3995	873.1178

Urban:

	Q1	Q2	Q3	Q4	Q5
Mean	1629.886	1836.862	2051.575	1819.779	1523.239
Median	855.6845	1019.221	1193.997	1083.36	859.3824

Question 3

Full sample

```
      Source │       SS           df       MS         Number of obs   =      6,281
─────────────┼──────────────────────────────          F(2, 6279)      =      93.91
       Model │  51.4597181         2   25.729859       Prob > F        =     0.0000
    Residual │  1720.42501     6,279   .273996658      R-squared       =     0.0290
─────────────┼──────────────────────────────          Adj R-squared   =     0.0287
       Total │  1771.88473     6,281   .28210233       Root MSE        =     .52345
```

```
    Con_Growth │     Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
───────────────┼────────────────────────────────────────────────────────────
    Inc_Growth │   .0671308   .0054028    12.43   0.000    .0565395    .077722
Agg_Con_Growth │   .1696759   .0323005     5.25   0.000    .1063558   .2329959
```

Rural:

. regress Con_Growth Inc_Growth Agg_Con_Growth, noconst

```
      Source │       SS           df       MS         Number of obs   =      4,998
─────────────┼──────────────────────────────          F(2, 4996)      =      58.41
       Model │  32.5151991         2   16.2575996      Prob > F        =     0.0000
    Residual │  1390.45766     4,996   .278314183      R-squared       =     0.0229
─────────────┼──────────────────────────────          Adj R-squared   =     0.0225
       Total │  1422.97286     4,998   .284708455      Root MSE        =     .52755
```

```
    Con_Growth │     Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
───────────────┼────────────────────────────────────────────────────────────
    Inc_Growth │   .0629393   .0063631     9.89   0.000    .0504648   .0754138
Agg_Con_Growth │   .1458294   .0433678     3.36   0.001    .0608095   .2308493
```

Urban:

. regress Con_Growth Inc_Growth Agg_Con_Growth, noconst

```
      Source │       SS           df       MS         Number of obs   =      1,283
─────────────┼──────────────────────────────          F(2, 1281)      =      38.42
       Model │  19.7466671         2   9.87333354      Prob > F        =     0.0000
    Residual │  329.165207     1,281   .256959568      R-squared       =     0.0566
─────────────┼──────────────────────────────          Adj R-squared   =     0.0551
       Total │  348.911874     1,283   .271950019      Root MSE        =     .50691
```

```
    Con_Growth │     Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
───────────────┼────────────────────────────────────────────────────────────
    Inc_Growth │   .0804582   .0102368     7.86   0.000    .0603755   .1005408
Agg_Con_Growth │   .2087236   .0476473     4.38   0.000    .1152483   .3021989
```