The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: log_emit

<table>
<thead>
<tr>
<th>Number of Observations Read</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Observations Used</td>
<td>31</td>
</tr>
</tbody>
</table>

Analysis of Variance

<table>
<thead>
<tr>
<th>Source</th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F Value</th>
<th>Pr &gt; F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>5</td>
<td>6.15286</td>
<td>1.23057</td>
<td>307.95</td>
<td>&lt;.0001</td>
</tr>
<tr>
<td>Error</td>
<td>25</td>
<td>0.09990</td>
<td>0.00400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corrected Total</td>
<td>30</td>
<td>6.25276</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Root MSE 0.06321  R-Square 0.9840
Dependent Mean 11.25410  Adj R-Sq 0.9808
Coeff Var 0.56170

Parameter Estimates

| Variable   | DF | Parameter Estimate | Standard Error | t Value | Pr > |t| |
|------------|----|--------------------|----------------|---------|------|---|
| Intercept  | 1  | 51.65723           | 10.14683       | 5.09    | <.0001 |
| log_pop    | 1  | -4.14478           | 0.80067        | -5.18   | <.0001 |
| log_urban  | 1  | -1.71698           | 0.50476        | -3.40   | 0.0023 |
| log_workage| 1  | 1.63313            | 1.11533        | 1.46    | 0.1556 |
| log_hhsize | 1  | -2.82356           | 1.01942        | -2.77   | 0.0104 |
| log_pcexp  | 1  | 1.38435            | 0.26006        | 5.32    | <.0001 |
Ridge Regression Analysis for log_emit

VIF

Standardized Coefficient

Ridge Parameter

log_pop  log_urban  log_workage  log_lhsize
log_pcsnp

0.00  0.05  0.10  0.15  0.20
The REG Procedure
Model: MODEL1
Dependent Variable: log_emit

Fit Diagnostics for log_emit

Observations 31
Parameters 6
Error DF 25
MSE 0.004
R-Square 0.984
Adj R-Square 0.9808
The REG Procedure
Model: MODEL1
Dependent Variable: log_emit

Residual by Regressors for log_emit

- Residual vs log_pop
- Residual vs log_urban
- Residual vs log_workage
- Residual vs log_hhsiz
- Residual vs log_pcexp