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Title: Trends in CPI 2001-2015  
Name: Daniel Whitehead  
Advisor: Dr. Robert Dean and Dr. Trevor Collier

- **Study Purpose:** Determine long and intermediate term trends in CPI inflation
- **Research Method:** Develop linear trend regression equations
- **Models:**
  1. CPI-1 = a + b(T)
  2. CPI-2 = a + b(T)
  Where: 
  CPI-1 = CPI All  
  CPI-2 = CPI Less Food and Energy  
  T = Time  
  a, b = equation parameters
- **Periods of Analysis:**
  1. 2001-2015  
  2. 2001-2007  
  3. 2009-2015

### Data Analysis:
#### Table 2
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>R2</td>
<td>0.9661</td>
<td>0.9853</td>
<td>0.9539</td>
</tr>
<tr>
<td>X Variable</td>
<td>4.6347</td>
<td>5.1938</td>
<td>4.0233</td>
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<td>t-Stat</td>
<td>30.3174</td>
<td>18.2940</td>
<td>10.9353</td>
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#### Table 3
<table>
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<tbody>
<tr>
<td>R2</td>
<td>0.9378</td>
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<td>0.9932</td>
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<tr>
<td>X Variable</td>
<td>4.0164</td>
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<td>t-Stat</td>
<td>77.0126</td>
<td>24.0956</td>
<td>27.0381</td>
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#### Data Analysis:
Table 2
(1) Overall trend in CPI declines from 01-07 to 09-15

### Data Analysis:
#### Table 4
<table>
<thead>
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<th>Inflation Trend 2013-2015</th>
<th>CPI All</th>
<th>CPI LFE</th>
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</thead>
<tbody>
<tr>
<td>2013-2014</td>
<td>1.62%</td>
<td>1.75%</td>
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<tr>
<td>2014-2015</td>
<td>0.12%</td>
<td>1.83%</td>
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</tbody>
</table>

#### Data Analysis:
Table 4
(1) Short term inflation rates below target rate of 2%