

**Lampiran 1. Penawaran Bawang Merah di Sumatera Utara Tahun 2010 – 2014 (Ton)**

| <b>Bulan</b>     | <b>Tahun</b> |              |              |             |             |
|------------------|--------------|--------------|--------------|-------------|-------------|
|                  | <b>2010</b>  | <b>2011</b>  | <b>2012</b>  | <b>2013</b> | <b>2014</b> |
| Januari          | 570          | 1.277        | 1.091        | 1.264       | 511         |
| Februari         | 880          | 1.058        | 1.486        | 1.254       | 447         |
| Maret            | 1.095        | 1.078        | 1.426        | 765         | 590         |
| April            | 954          | 499          | 874          | 708         | 468         |
| Mei              | 1.029        | 917          | 931          | 495         | 598         |
| Juni             | 927          | 1.098        | 1.473        | 532         | 892         |
| Juli             | 968          | 1.087        | 1.503        | 562         | 901         |
| Agustus          | 938          | 1.423        | 914          | 545         | 580         |
| September        | 896          | 1.171        | 997          | 517         | 442         |
| Oktober          | 1.263        | 918          | 1.066        | 484         | 771         |
| November         | 1.024        | 1.046        | 1.121        | 676         | 708         |
| Desember         | 564          | 877          | 1.276        | 503         | 902         |
| <b>Rata-Rata</b> | <b>926</b>   | <b>1.037</b> | <b>1.180</b> | <b>692</b>  | <b>651</b>  |

Sumber : Dinas Pertanian Provinsi Sumatera Utara, 2010-2014

**Lampiran 2. Luas Areal Panen Bawang Merah di Sumatera Utara Tahun 2010 – 2014 (Ha)**

| <b>Bulan</b>     | <b>Tahun</b> |             |             |             |             |
|------------------|--------------|-------------|-------------|-------------|-------------|
|                  | <b>2010</b>  | <b>2011</b> | <b>2012</b> | <b>2013</b> | <b>2014</b> |
| Januari          | 74           | 154         | 137         | 143         | 67          |
| Februari         | 94           | 110         | 139         | 166         | 55          |
| Maret            | 123          | 107         | 155         | 96          | 77          |
| April            | 117          | 60          | 114         | 90          | 78          |
| Mei              | 117          | 94          | 127         | 66          | 79          |
| Juni             | 110          | 107         | 148         | 69          | 107         |
| Juli             | 133          | 122         | 156         | 72          | 107         |
| Agustus          | 136          | 124         | 102         | 68          | 70          |
| September        | 101          | 114         | 116         | 69          | 67          |
| Oktober          | 97           | 115         | 115         | 66          | 94          |
| November         | 110          | 154         | 128         | 80          | 90          |
| Desember         | 148          | 123         | 144         | 63          | 112         |
| <b>Rata-Rata</b> | <b>113</b>   | <b>115</b>  | <b>132</b>  | <b>87</b>   | <b>84</b>   |

Sumber : Dinas Pertanian Provinsi Sumatera Utara, 2010-2014

**Lampiran 3. Luas Areal Tanam Bawang Merah di Sumatera Utara Tahun 2010 – 2014 (Ha)**

| <b>Bulan</b>     | <b>Tahun</b> |             |             |             |             |
|------------------|--------------|-------------|-------------|-------------|-------------|
|                  | <b>2010</b>  | <b>2011</b> | <b>2012</b> | <b>2013</b> | <b>2014</b> |
| Januari          | 98           | 51          | 104         | 105         | 82          |
| Februari         | 122          | 114         | 119         | 121         | 44          |
| Maret            | 108          | 118         | 203         | 147         | 102         |
| April            | 111          | 150         | 165         | 143         | 175         |
| Mei              | 119          | 101         | 117         | 109         | 92          |
| Juni             | 107          | 72          | 110         | 71          | 99          |
| Juli             | 162          | 113         | 122         | 118         | 60          |
| Agustus          | 63           | 133         | 122         | 151         | 89          |
| September        | 110          | 186         | 121         | 139         | 102         |
| Oktober          | 143          | 141         | 134         | 98          | 113         |
| November         | 122          | 154         | 115         | 96          | 88          |
| Desember         | 39           | 155         | 93          | 148         | 104         |
| <b>Rata-Rata</b> | 108          | 124         | 127         | 120         | 96          |

Sumber : Dinas Pertanian Provinsi Sumatera Utara, 2010-2014

**Lampiran 4. Harga Bawang Merah di Sumatera Utara Tahun 2010 – 2014  
(Rp/kg)**

| <b>Bulan</b>     | <b>Tahun</b>  |               |               |               |               |
|------------------|---------------|---------------|---------------|---------------|---------------|
|                  | <b>2010</b>   | <b>2011</b>   | <b>2012</b>   | <b>2013</b>   | <b>2014</b>   |
| Januari          | 9.352         | 14.000        | 10.831        | 14.104        | 18.400        |
| Februari         | 8.898         | 12.971        | 10.388        | 15.771        | 15.600        |
| Maret            | 8.741         | 14.376        | 9.665         | 23.042        | 13.800        |
| April            | 9.019         | 12.995        | 9.521         | 34.479        | 13.400        |
| Mei              | 8.900         | 12.202        | 10.604        | 26.000        | 14.000        |
| Juni             | 10.852        | 12.048        | 11.208        | 23.854        | 15.600        |
| Juli             | 12.815        | 13.143        | 12.750        | 28.875        | 16.100        |
| Agustus          | 12.537        | 12.976        | 13.833        | 33.313        | 17.000        |
| September        | 12.509        | 12.781        | 12.500        | 30.875        | 15.200        |
| Oktober          | 12.620        | 11.348        | 11.500        | 20.583        | 16.200        |
| November         | 12.046        | 11.037        | 10.708        | 19.583        | 14.000        |
| Desember         | 14.148        | 10.978        | 11.583        | 19.854        | 15.500        |
| <b>Rata-Rata</b> | <b>11.036</b> | <b>12.571</b> | <b>11.258</b> | <b>24.194</b> | <b>15.400</b> |

Sumber : BPS Provinsi Sumatera Utara, 2010-2014

**Lampiran 5. Harga Bawang Putih di Sumatera Utara Tahun 2010 – 2014  
(Rp/kg)**

| <b>Bulan</b>     | <b>Tahun</b>  |               |               |               |               |
|------------------|---------------|---------------|---------------|---------------|---------------|
|                  | <b>2010</b>   | <b>2011</b>   | <b>2012</b>   | <b>2013</b>   | <b>2014</b>   |
| Januari          | 8.133         | 19.733        | 14.103        | 14.125        | 11.166        |
| Februari         | 10.700        | 18.933        | 14.655        | 16.875        | 11.166        |
| Maret            | 10.600        | 20.533        | 14.138        | 30.125        | 11.133        |
| April            | 11.100        | 17.800        | 12.888        | 32.208        | 11.133        |
| Mei              | 11.900        | 18.400        | 13.944        | 20.833        | 12.000        |
| Juni             | 13.700        | 20.600        | 12.611        | 15.416        | 17.833        |
| Juli             | 13.900        | 18.700        | 14.000        | 22.792        | 12.583        |
| Agustus          | 15.900        | 17.800        | 14.666        | 24.000        | 14.166        |
| September        | 15.300        | 17.400        | 15.055        | 25.916        | 14.166        |
| Oktober          | 15.233        | 16.427        | 15.138        | 16.083        | 19.333        |
| November         | 15.733        | 14.855        | 14.916        | 15.583        | 12.333        |
| Desember         | 17.600        | 15.255        | 14.916        | 13.583        | 14.000        |
| <b>Rata-Rata</b> | <b>13.317</b> | <b>18.036</b> | <b>14.253</b> | <b>20.628</b> | <b>13.418</b> |

Sumber : BPS Provinsi Sumatera Utara, 2010-2014

**Lampiran 6. Harga Pupuk TSP di Sumatera Tahun 2010 – 2014 (Rp/kg)**

| Bulan            | Tahun        |              |              |              |              |
|------------------|--------------|--------------|--------------|--------------|--------------|
|                  | 2010         | 2011         | 2012         | 2013         | 2014         |
| Januari          | 6.245        | 6.242        | 7.205        | 6.915        | 7.433        |
| Februari         | 6.201        | 6.359        | 7.214        | 6.942        | 7.416        |
| Maret            | 5.993        | 6.376        | 7.219        | 6.931        | 7.416        |
| April            | 6.004        | 6.225        | 7.209        | 6.952        | 7.041        |
| Mei              | 6.004        | 6.370        | 7.067        | 6.956        | 7.041        |
| Juni             | 6.004        | 6.501        | 6.917        | 7.022        | 7.216        |
| Juli             | 5.904        | 6.574        | 6.926        | 6.952        | 7.141        |
| Agustus          | 5.921        | 6.470        | 6.926        | 6.952        | 7.141        |
| September        | 5.958        | 6.528        | 6.821        | 7.009        | 7.183        |
| Oktober          | 5.948        | 6.544        | 6.981        | 7.009        | 7.183        |
| November         | 5.913        | 6.549        | 6.838        | 7.076        | 7.195        |
| Desember         | 5.923        | 6.526        | 6.909        | 6.999        | 7.195        |
| <b>Rata-Rata</b> | <b>6.002</b> | <b>6.439</b> | <b>7.019</b> | <b>6.976</b> | <b>7.217</b> |

Sumber : BPS Provinsi Sumatera Utara, 2010-2014

**Lampiran 7. Penawaran Bawang Merah pada Periode Sebelumnya di Sumatera Utara Tahun 2010 – 2014 (Ton)**

| <b>Bulan</b>     | <b>Tahun</b> |              |              |             |             |
|------------------|--------------|--------------|--------------|-------------|-------------|
|                  | <b>2010</b>  | <b>2011</b>  | <b>2012</b>  | <b>2013</b> | <b>2014</b> |
| Januari          | 1.140        | 564          | 877          | 1.276       | 503         |
| Februari         | 570          | 1.277        | 1.091        | 1.264       | 511         |
| Maret            | 880          | 1.058        | 1.486        | 1.254       | 447         |
| April            | 1.095        | 1.078        | 1.426        | 765         | 590         |
| Mei              | 954          | 499          | 874          | 708         | 468         |
| Juni             | 1.029        | 917          | 931          | 495         | 598         |
| Juli             | 927          | 1.098        | 1.473        | 532         | 892         |
| Agustus          | 968          | 1.087        | 1.503        | 562         | 901         |
| September        | 938          | 1.423        | 914          | 545         | 580         |
| Oktober          | 896          | 1.171        | 997          | 517         | 442         |
| November         | 1.263        | 918          | 1.066        | 484         | 771         |
| Desember         | 1.024        | 1.046        | 1.121        | 676         | 708         |
| <b>Rata-Rata</b> | <b>974</b>   | <b>1.011</b> | <b>1.147</b> | <b>757</b>  | <b>618</b>  |

Sumber : Dinas Pertanian Provinsi Sumatera Utara, 2010-2014

**Lampiran 8. Variabel Penawaran Bawang Merah (Yt), Luas Areal Panen Bawang Merah (LP), Luas Areal Tanam Bawang Merah (LT), Harga Bawang Merah (HBMt), Harga Bawang Putih (HBPt), Harga Pupuk TSP (HTSPt) dan Penawaran Bawang Merah pada Periode Sebelumnya (Yt-1) di Sumatera Utara pada Tahun 2010-2014**

| Bulan     | Tahun | Yt    | LP  | LT  | HBMt   | HBPt   | HTS<br>Pt | Yt-1  |
|-----------|-------|-------|-----|-----|--------|--------|-----------|-------|
| Januari   | 2010  | 570   | 74  | 98  | 9.352  | 8.133  | 6.245     | 1.140 |
| Februari  |       | 880   | 94  | 122 | 8.898  | 10.700 | 6.201     | 570   |
| Maret     |       | 1.095 | 123 | 108 | 8.741  | 10.600 | 5.993     | 880   |
| April     |       | 954   | 117 | 111 | 9.019  | 11.100 | 6.004     | 1.095 |
| Mei       |       | 1.029 | 117 | 119 | 8.900  | 11.900 | 6.004     | 954   |
| Juni      |       | 927   | 110 | 107 | 10.852 | 13.700 | 6.004     | 1.029 |
| Juli      |       | 968   | 133 | 162 | 12.815 | 13.900 | 5.904     | 927   |
| Agustus   |       | 938   | 136 | 63  | 12.537 | 15.900 | 5.921     | 968   |
| September |       | 896   | 101 | 110 | 12.509 | 15.300 | 5.958     | 938   |
| Oktober   |       | 1.263 | 97  | 143 | 12.620 | 15.233 | 5.948     | 896   |
| November  |       | 1.024 | 110 | 122 | 12.046 | 15.733 | 5.913     | 1.263 |
| Desember  |       | 564   | 148 | 39  | 14.148 | 17.600 | 5.923     | 1.024 |
| Januari   | 2011  | 1.277 | 154 | 51  | 14.000 | 19.733 | 6.242     | 564   |
| Februari  |       | 1.058 | 110 | 114 | 12.971 | 18.933 | 6.359     | 1.277 |
| Maret     |       | 1.078 | 107 | 118 | 14.376 | 20.533 | 6.376     | 1.058 |
| April     |       | 499   | 60  | 150 | 12.995 | 17.800 | 6.225     | 1.078 |
| Mei       |       | 917   | 94  | 101 | 12.202 | 18.400 | 6.370     | 499   |
| Juni      |       | 1.098 | 107 | 72  | 12.048 | 20.600 | 6.501     | 917   |
| Juli      |       | 1.087 | 122 | 113 | 13.143 | 18.700 | 6.574     | 1.098 |
| Agustus   |       | 1.423 | 124 | 133 | 12.976 | 17.800 | 6.470     | 1.087 |
| September |       | 1.171 | 114 | 186 | 12.781 | 17.400 | 6.528     | 1.423 |
| Oktober   |       | 918   | 115 | 141 | 11.348 | 16.427 | 6.544     | 1.171 |
| November  |       | 1.046 | 154 | 154 | 11.037 | 14.855 | 6.549     | 918   |
| Desember  |       | 877   | 123 | 155 | 10.978 | 15.255 | 6.526     | 1.046 |
| Januari   | 2012  | 1.091 | 137 | 104 | 10.831 | 14.103 | 7.205     | 877   |
| Februari  |       | 1.486 | 139 | 119 | 10.388 | 14.655 | 7.214     | 1.091 |
| Maret     |       | 1.426 | 155 | 203 | 9.665  | 14.138 | 7.219     | 1.486 |
| April     |       | 874   | 114 | 165 | 9.521  | 12.888 | 7.209     | 1.426 |
| Mei       |       | 931   | 127 | 117 | 10.604 | 13.944 | 7.067     | 874   |
| Juni      |       | 1.473 | 148 | 110 | 11.208 | 12.611 | 6.917     | 931   |
| Juli      |       | 1.503 | 156 | 122 | 12.750 | 14.000 | 6.926     | 1.473 |
| Agustus   |       | 914   | 102 | 122 | 13.833 | 14.666 | 6.926     | 1.503 |
| September |       | 997   | 116 | 121 | 12.500 | 15.055 | 6.821     | 914   |
| Oktober   |       | 1.066 | 115 | 134 | 11.500 | 15.138 | 6.981     | 997   |
| November  |       | 1.121 | 128 | 115 | 10.708 | 14.916 | 6.838     | 1.066 |
| Desember  |       | 1.276 | 144 | 93  | 11.583 | 14.916 | 6.909     | 1.121 |



|                  |      |              |            |            |               |               |              |              |
|------------------|------|--------------|------------|------------|---------------|---------------|--------------|--------------|
| Januari          | 2013 | 1.264        | 143        | 105        | 14.104        | 14.125        | 6.915        | 1.276        |
| Februari         |      | 1.254        | 166        | 121        | 15.771        | 16.875        | 6.942        | 1.264        |
| Maret            |      | 765          | 96         | 147        | 23.042        | 30.125        | 6.931        | 1.254        |
| April            |      | 708          | 90         | 143        | 34.479        | 32.208        | 6.952        | 765          |
| Mei              |      | 495          | 66         | 109        | 26.000        | 20.833        | 6.956        | 708          |
| Juni             |      | 532          | 69         | 71         | 23.854        | 15.416        | 7.022        | 495          |
| Juli             |      | 562          | 72         | 118        | 28.875        | 22.792        | 6.952        | 532          |
| Agustus          |      | 545          | 68         | 151        | 33.313        | 24.000        | 6.952        | 562          |
| September        |      | 517          | 69         | 139        | 30.875        | 25.916        | 7.009        | 545          |
| Oktober          |      | 484          | 66         | 98         | 20.583        | 16.083        | 7.009        | 517          |
| November         |      | 676          | 80         | 96         | 19.583        | 15.583        | 7.076        | 484          |
| Desember         |      | 503          | 63         | 148        | 19.854        | 13.583        | 6.999        | 676          |
| Januari          | 2014 | 511          | 67         | 82         | 18.400        | 11.166        | 7.433        | 503          |
| Februari         |      | 447          | 55         | 44         | 15.600        | 11.166        | 7.416        | 511          |
| Maret            |      | 590          | 77         | 102        | 13.800        | 11.133        | 7.416        | 447          |
| April            |      | 468          | 78         | 175        | 13.400        | 11.133        | 7.041        | 590          |
| Mei              |      | 598          | 79         | 92         | 14.000        | 12.000        | 7.041        | 468          |
| Juni             |      | 892          | 107        | 99         | 15.600        | 17.833        | 7.216        | 598          |
| Juli             |      | 901          | 107        | 60         | 16.100        | 12.583        | 7.141        | 892          |
| Agustus          |      | 580          | 70         | 89         | 17.000        | 14.166        | 7.141        | 901          |
| September        |      | 442          | 67         | 102        | 15.200        | 14.166        | 7.183        | 580          |
| Oktober          |      | 771          | 94         | 113        | 16.200        | 19.333        | 7.183        | 442          |
| November         |      | 708          | 90         | 88         | 14.000        | 12.333        | 7.195        | 771          |
| Desember         |      | 902          | 112        | 104        | 15.500        | 14.000        | 7.195        | 708          |
| <b>Rata-Rata</b> |      | <b>897</b>   | <b>106</b> | <b>115</b> | <b>14.892</b> | <b>15.930</b> | <b>6.730</b> | <b>901</b>   |
| <b>Maximum</b>   |      | <b>1.503</b> | <b>166</b> | <b>203</b> | <b>34.479</b> | <b>32.208</b> | <b>7.433</b> | <b>1.503</b> |
| <b>Minimum</b>   |      | <b>442</b>   | <b>55</b>  | <b>39</b>  | <b>8.741</b>  | <b>8.133</b>  | <b>5.904</b> | <b>442</b>   |

Sumber : Dinas Pertanian Provinsi Sumatera Utara, 2010-2014 dan BPS Provinsi Sumatera Utara, 2010-2014

## Lampiran 9. Hasil Uji Akar Unit (unit root test) pada tingkat level

### ➤ Pada Bentuk Persamaan Linier

Null Hypothesis: Unit root (individual unit root process)

Series: YT, LP, LT, HBMT, HBPT, HTSPT, YT\_1

Date: 09/30/16 Time: 11:43

Sample: 2010M01 2014M12

Exogenous variables: Individual effects

Newey-West bandwidth selection using Bartlett kernel

Total (balanced) observations: 413

Cross-sections included: 7

| Method                 | Statistic | Prob.** |
|------------------------|-----------|---------|
| PP - Fisher Chi-square | 64.1636   | 0.0000  |
| PP - Choi Z-stat       | -5.17112  | 0.0000  |

\*\* Probabilities for Fisher tests are computed using an asymptotic Chi-square distribution. All other tests assume asymptotic normality.

Intermediate Phillips-Perron test results UNTITLED

| Series | Prob.  | Bandwidth | Obs |
|--------|--------|-----------|-----|
| YT     | 0.0058 | 1.0       | 59  |
| LP     | 0.0229 | 3.0       | 59  |
| LT     | 0.0000 | 10.0      | 59  |
| HBMT   | 0.2475 | 4.0       | 59  |
| HBPT   | 0.0138 | 10.0      | 59  |
| HTSPT  | 0.7399 | 7.0       | 59  |
| YT_1   | 0.0051 | 1.0       | 59  |

### Lampiran 10. Hasil Uji Derajat Integrasi pada Tingkat *First Difference*

Null Hypothesis: Unit root (individual unit root process)

Series: YT, LP, LT, HBMT, HBPT, HTSPT, YT\_1

Date: 09/30/16 Time: 11:47

Sample: 2010M01 2014M12

Exogenous variables: Individual effects

Newey-West bandwidth selection using Bartlett kernel

Total (balanced) observations: 406

Cross-sections included: 7

| Method                 | Statistic | Prob.** |
|------------------------|-----------|---------|
| PP - Fisher Chi-square | 308.663   | 0.0000  |
| PP - Choi Z-stat       | -16.3391  | 0.0000  |

\*\* Probabilities for Fisher tests are computed using an asymptotic Chi-square distribution. All other tests assume asymptotic normality.

Intermediate Phillips-Perron test results D(UNTITLED)

| Series   | Prob.  | Bandwidth | Obs |
|----------|--------|-----------|-----|
| D(YT)    | 0.0000 | 26.0      | 58  |
| D(LP)    | 0.0000 | 40.0      | 58  |
| D(LT)    | 0.0000 | 15.0      | 58  |
| D(HBMT)  | 0.0000 | 12.0      | 58  |
| D(HBPT)  | 0.0000 | 27.0      | 58  |
| D(HTSPT) | 0.0000 | 8.0       | 58  |
| D(YT_1)  | 0.0000 | 27.0      | 58  |

### Lampiran 11. Hasil Uji Kointegrasi (Uji Stasioneritas Nilai Residual)

Null Hypothesis: RESID01 has a unit root  
 Exogenous: Constant  
 Bandwidth: 30 (Newey-West using Bartlett kernel)

|                                | Adj. t-Stat | Prob.* |
|--------------------------------|-------------|--------|
| Phillips-Perron test statistic | -8.518635   | 0.0000 |
| Test critical values:          |             |        |
| 1% level                       | -3.546099   |        |
| 5% level                       | -2.911730   |        |
| 10% level                      | -2.593551   |        |

\*MacKinnon (1996) one-sided p-values.

|  |          |
|--|----------|
| Residual variance (no correction)        | 21700.11 |
| HAC corrected variance (Bartlett kernel) | 3728.081 |

Phillips-Perron Test Equation  
 Dependent Variable: D(RESID01)  
 Method: Least Squares  
 Date: 09/30/16 Time: 11:52  
 Sample (adjusted): 2010M02 2014M12  
 Included observations: 59 after adjustments

| Variable           | Coefficient | Std. Error            | t-Statistic | Prob.    |
|--------------------|-------------|-----------------------|-------------|----------|
| RESID01(-1)        | -0.876010   | 0.131138              | -6.680053   | 0.0000   |
| C                  | 1.268377    | 19.51163              | 0.065006    | 0.9484   |
| R-squared          | 0.439104    | Mean dependent var    |             | 1.241364 |
| Adjusted R-squared | 0.429264    | S.D. dependent var    |             | 198.3818 |
| S.E. of regression | 149.8717    | Akaike info criterion |             | 12.89075 |
| Sum squared resid  | 1280307.    | Schwarz criterion     |             | 12.96117 |
| Log likelihood     | -378.2770   | Hannan-Quinn criter.  |             | 12.91824 |
| F-statistic        | 44.62311    | Durbin-Watson stat    |             | 1.870171 |
| Prob(F-statistic)  | 0.000000    |                       |             |          |

## Lampiran 12. Hasil Estimasi Penawaran Bawang Merah Di Sumatera Utara

Dependent Variable: D(YT)

Method: Least Squares

Date: 09/30/16 Time: 11:58

Sample (adjusted): 2010M02 2014M12

Included observations: 59 after adjustments

| Variable           | Coefficient | Std. Error            | t-Statistic | Prob.    |
|--------------------|-------------|-----------------------|-------------|----------|
| D(LP)              | 7.297482    | 1.177954              | 6.195051    | 0.0000   |
| D(LT)              | 1.312139    | 0.733708              | 1.788366    | 0.0795   |
| D(HBMT)            | -0.010468   | 0.012801              | -0.817748   | 0.4172   |
| D(HBPT)            | 0.006379    | 0.010652              | 0.598888    | 0.5518   |
| D(HTSPT)           | 0.355722    | 0.187741              | 1.894748    | 0.0637   |
| D(YT_1)            | -0.113171   | 0.103477              | -1.093687   | 0.2791   |
| C                  | -5.306324   | 25.87563              | -0.205070   | 0.8383   |
| R-squared          | 0.486543    | Mean dependent var    |             | 5.627119 |
| Adjusted R-squared | 0.427297    | S.D. dependent var    |             | 260.5286 |
| S.E. of regression | 197.1605    | Akaike info criterion |             | 13.51691 |
| Sum squared resid  | 2021359.    | Schwarz criterion     |             | 13.76340 |
| Log likelihood     | -391.7488   | Hannan-Quinn criter.  |             | 13.61313 |
| F-statistic        | 8.212370    | Durbin-Watson stat    |             | 2.302589 |
| Prob(F-statistic)  | 0.000003    |                       |             |          |

### Lampiran 13. Hasil Uji Linearitas

Ramsey RESET Test:

|                      |          |                     |        |
|----------------------|----------|---------------------|--------|
| F-statistic          | 3.389515 | Prob. F(1,51)       | 0.0714 |
| Log likelihood ratio | 3.796400 | Prob. Chi-Square(1) | 0.0514 |

Test Equation:

Dependent Variable: D(YT)

Method: Least Squares

Date: 09/30/16 Time: 11:59

Sample: 2010M02 2014M12

Included observations: 59

| Variable | Coefficient | Std. Error | t-Statistic | Prob.  |
|----------|-------------|------------|-------------|--------|
| D(LP)    | 6.021833    | 1.344138   | 4.480071    | 0.0000 |
| D(LT)    | 1.428682    | 0.720197   | 1.983736    | 0.0527 |
| D(HBMT)  | -0.013175   | 0.012603   | -1.045406   | 0.3008 |
| D(HBPT)  | 0.012270    | 0.010896   | 1.126143    | 0.2654 |
| D(HTSPT) | 0.421114    | 0.186975   | 2.252239    | 0.0286 |
| D(YT_1)  | -0.156842   | 0.103922   | -1.509232   | 0.1374 |
| C        | 34.99401    | 33.45582   | 1.045977    | 0.3005 |
| FITTED^2 | -0.001267   | 0.000688   | -1.841064   | 0.0714 |

  

|                    |           |                       |          |
|--------------------|-----------|-----------------------|----------|
| R-squared          | 0.518541  | Mean dependent var    | 5.627119 |
| Adjusted R-squared | 0.452458  | S.D. dependent var    | 260.5286 |
| S.E. of regression | 192.7809  | Akaike info criterion | 13.48646 |
| Sum squared resid  | 1895389.  | Schwarz criterion     | 13.76816 |
| Log likelihood     | -389.8506 | Hannan-Quinn criter.  | 13.59642 |
| F-statistic        | 7.846857  | Durbin-Watson stat    | 2.250452 |
| Prob(F-statistic)  | 0.000002  |                       |          |

## Lampiran 14. Hasil Uji Autokorelasi

Breusch-Godfrey Serial Correlation LM Test:

|               |          |                     |        |
|---------------|----------|---------------------|--------|
| F-statistic   | 5.903836 | Prob. F(2,50)       | 0.0050 |
| Obs*R-squared | 11.27130 | Prob. Chi-Square(2) | 0.0036 |

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 09/30/16 Time: 12:01

Sample: 2010M02 2014M12

Included observations: 59

Presample missing value lagged residuals set to zero.

| Variable           | Coefficient | Std. Error            | t-Statistic | Prob.     |
|--------------------|-------------|-----------------------|-------------|-----------|
| D(LP)              | -0.073997   | 1.101634              | -0.067170   | 0.9467    |
| D(LT)              | -0.110543   | 0.721596              | -0.153192   | 0.8789    |
| D(HBMT)            | 0.003644    | 0.011877              | 0.306764    | 0.7603    |
| D(HBPT)            | -0.002795   | 0.009947              | -0.281013   | 0.7799    |
| D(HTSPT)           | -0.087374   | 0.182593              | -0.478518   | 0.6344    |
| D(YT_1)            | 0.096169    | 0.129482              | 0.742721    | 0.4611    |
| C                  | 1.478371    | 23.74094              | 0.062271    | 0.9506    |
| RESID(-1)          | -0.307663   | 0.189154              | -1.626520   | 0.1101    |
| RESID(-2)          | -0.401760   | 0.136701              | -2.938978   | 0.0050    |
| R-squared          | 0.191039    | Mean dependent var    |             | -6.92E-15 |
| Adjusted R-squared | 0.061605    | S.D. dependent var    |             | 186.6842  |
| S.E. of regression | 180.8425    | Akaike info criterion |             | 13.37270  |
| Sum squared resid  | 1635200.    | Schwarz criterion     |             | 13.68961  |
| Log likelihood     | -385.4947   | Hannan-Quinn criter.  |             | 13.49641  |
| F-statistic        | 1.475959    | Durbin-Watson stat    |             | 2.230775  |
| Prob(F-statistic)  | 0.189812    |                       |             |           |

## Lampiran 15. Hasil Uji Heteroskedastisitas

Heteroskedasticity Test: White

|                     |          |                      |        |
|---------------------|----------|----------------------|--------|
| F-statistic         | 1.644641 | Prob. F(27,31)       | 0.0910 |
| Obs*R-squared       | 34.74441 | Prob. Chi-Square(27) | 0.1455 |
| Scaled explained SS | 55.75388 | Prob. Chi-Square(27) | 0.0009 |

Test Equation:

Dependent Variable: RESID^2

Method: Least Squares

Date: 09/30/16 Time: 12:02

Sample: 2010M02 2014M12

Included observations: 59

| Variable             | Coefficient | Std. Error            | t-Statistic | Prob.    |
|----------------------|-------------|-----------------------|-------------|----------|
| C                    | 37152.31    | 17823.77              | 2.084425    | 0.0455   |
| D(LP)                | 625.9597    | 509.5715              | 1.228404    | 0.2285   |
| (D(LP))^2            | 13.49921    | 17.75429              | 0.760335    | 0.4528   |
| (D(LP))*(D(LT))      | -24.25502   | 14.80392              | -1.638419   | 0.1114   |
| (D(LP))*(D(HBMT))    | 1.279284    | 0.544332              | 2.350192    | 0.0253   |
| (D(LP))*(D(HBPT))    | -0.656195   | 0.301760              | -2.174559   | 0.0374   |
| (D(LP))*(D(HTSPT))   | -3.167043   | 7.392828              | -0.428394   | 0.6713   |
| (D(LP))*(D(YT_1))    | 2.881979    | 2.726306              | 1.057100    | 0.2986   |
| D(LT)                | -47.03438   | 275.3543              | -0.170814   | 0.8655   |
| (D(LT))^2            | 3.607716    | 6.094871              | 0.591927    | 0.5582   |
| (D(LT))*(D(HBMT))    | -0.536921   | 0.224690              | -2.389614   | 0.0231   |
| (D(LT))*(D(HBPT))    | 0.167293    | 0.211489              | 0.791026    | 0.4349   |
| (D(LT))*(D(HTSPT))   | -0.797587   | 3.367618              | -0.236840   | 0.8143   |
| (D(LT))*(D(YT_1))    | 0.074149    | 1.326336              | 0.055905    | 0.9558   |
| D(HBMT)              | 2.985268    | 6.851556              | 0.435707    | 0.6661   |
| (D(HBMT))^2          | -0.000558   | 0.001922              | -0.290222   | 0.7736   |
| (D(HBMT))*(D(HBPT))  | 0.004191    | 0.003274              | 1.279954    | 0.2101   |
| (D(HBMT))*(D(HTSPT)) | -0.085935   | 0.123119              | -0.697981   | 0.4904   |
| (D(HBMT))*(D(YT_1))  | 0.010129    | 0.031895              | 0.317571    | 0.7529   |
| D(HBPT)              | 0.880219    | 5.139574              | 0.171263    | 0.8651   |
| (D(HBPT))^2          | -0.002393   | 0.001618              | -1.478789   | 0.1493   |
| (D(HBPT))*(D(HTSPT)) | 0.099974    | 0.059099              | 1.691642    | 0.1007   |
| (D(HBPT))*(D(YT_1))  | -0.027178   | 0.024528              | -1.108032   | 0.2764   |
| D(HTSPT)             | 84.71314    | 122.4233              | 0.691969    | 0.4941   |
| (D(HTSPT))^2         | -0.248545   | 0.332961              | -0.746467   | 0.4610   |
| (D(HTSPT))*(D(YT_1)) | -0.410651   | 0.360196              | -1.140079   | 0.2630   |
| D(YT_1)              | -39.81308   | 43.46382              | -0.916005   | 0.3667   |
| (D(YT_1))^2          | -0.058970   | 0.115086              | -0.512400   | 0.6120   |
| R-squared            | 0.588888    | Mean dependent var    |             | 34260.31 |
| Adjusted R-squared   | 0.230823    | S.D. dependent var    |             | 70236.38 |
| S.E. of regression   | 61599.22    | Akaike info criterion |             | 25.20029 |
| Sum squared resid    | 1.18E+11    | Schwarz criterion     |             | 26.18624 |
| Log likelihood       | -715.4085   | Hannan-Quinn criter.  |             | 25.58516 |
| F-statistic          | 1.644641    | Durbin-Watson stat    |             | 1.625754 |
| Prob(F-statistic)    | 0.091047    |                       |             |          |



### Lampiran 16. Hasil Uji Multikolinieritas

|          | D(YT)     | D(LP)     | D(LT)     | D(HBMT)   | D(HBPT)   | D(HTSPT)  | D(YT_1)   |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| D(YT)    | 1.000000  | 0.645984  | -0.004213 | -0.038382 | 0.057027  | 0.205180  | -0.225227 |
| D(LP)    | 0.645984  | 1.000000  | -0.174469 | -0.036291 | 0.001140  | 0.068548  | -0.224081 |
| D(LT)    | -0.004213 | -0.174469 | 1.000000  | 0.208130  | 0.209305  | -0.269843 | 0.287108  |
| D(HBMT)  | -0.038382 | -0.036291 | 0.208130  | 1.000000  | 0.711833  | -0.050525 | -0.071848 |
| D(HBPT)  | 0.057027  | 0.001140  | 0.209305  | 0.711833  | 1.000000  | -0.000949 | -0.100255 |
| D(HTSPT) | 0.205180  | 0.068548  | -0.269843 | -0.050525 | -0.000949 | 1.000000  | -0.114358 |
| D(YT_1)  | -0.225227 | -0.224081 | 0.287108  | -0.071848 | -0.100255 | -0.114358 | 1.000000  |