

Lampiran 1.

Perbandingan NPL di 5 negara ASEAN

| Tahun | Thailand | Malaysia | Indonesia | Singapore | Philippines |
|-------|----------|----------|-----------|-----------|-------------|
| 2009 | 5.2 | 3.6 | 3.3 | 2.01 | 3.5 |
| 2010 | 3.9 | 3.4 | 2.5 | 1.4 | 3.4 |
| 2011 | 2.9 | 2.7 | 2.1 | 1.1 | 2.6 |
| 2012 | 2.43 | 2.02 | 1.8 | 1.04 | 2.2 |
| 2013 | 2.3 | 1.85 | 1.7 | 0.9 | 2.4 |
| 2014 | 2.31 | 1.65 | 2.07 | 0.76 | 2.02 |
| 2015 | 2.68 | 1.6 | 2.43 | 0.92 | 1.89 |
| 2016 | 2.99 | 1.61 | 2.9 | 1.22 | 1.72 |
| 2017 | 3.1 | 1.5 | 2.6 | 1.4 | 1.6 |

| Perbandingan NPL Perbankan Nasional dan Kelompok BPD Periode 2009-2018 | | | | | | |
|---|-----------------------------------|------------------------------|--------------|-----------------------------------|------------------------------|--------------|
| Tahun | NPL Perbankan Nasional | | | NPL BPD | | |
| | Kredit Bermasalah (jutaan rupiah) | Total Kredit (jutaan rupiah) | NPL (persen) | Kredit Bermasalah (jutaan rupiah) | Total Kredit (jutaan rupiah) | NPL (persen) |
| 2009 | 47548 | 1437930 | 3,31 | 2060 | 120754 | 1,71 |
| 2010 | 45241 | 1765845 | 2,56 | 2966 | 143707 | 2,06 |
| 2011 | 47695 | 2200094 | 2,17 | 3073 | 175702 | 1,74 |
| 2012 | 50595 | 2707862 | 1,86 | 5025 | 218851 | 2,29 |
| 2013 | 58279 | 3292874 | 1,76 | 7444 | 264541 | 1,77 |
| 2014 | 78388 | 3674308 | 2,13 | 10408 | 301456 | 2,81 |
| 2015 | 100833 | 4057904 | 2,48 | 12070 | 328759 | 3,46 |
| 2016 | 128136 | 4377195 | 2,92 | 11801 | 357839 | 3,67 |
| 2017 | 122822 | 4737944 | 2,60 | 12692 | 390372 | 3,30 |
| 2018 | 134140 | 4600894 | 2,91 | 12679 | 404311 | 3,13 |
| rata-rata | 90409 | 3650317 | 2.75 | 8913 | 300701 | 2,70 |

| Perbandingan LDR Perbankan Nasional dan Kelompok BPD Periode 2009-2018 | | | | | | |
|---|--|--|-------------------------|--|--|-------------------------|
| Tahun | LDR Perbankan Nasional | | | LDR BPD | | |
| | Kredit yang diberikan (jutaan rupiah) | Dana Pihak Ketiga (jutaan rupiah) | LDR (persen) | Kredit yang diberikan (jutaan rupiah) | Dana Pihak Ketiga (jutaan rupiah) | LDR (persen) |
| 2009 | 1437930 | 1973042 | 72,88 | 120754 | 152251 | 79,31 |
| 2010 | 1534583 | 2043836 | 75.46 | 136151 | 184478 | 71,13 |
| 2011 | 1894563 | 2391170 | 79.18 | 161551 | 229729 | 70,39 |
| 2012 | 2597026 | 3107385 | 81.98 | 218851 | 278535 | 66,40 |
| 2013 | 3158009 | 3520616 | 87.18 | 265661 | 265661 | 76,27 |
| 2014 | 3526364 | 3943697 | 90.14 | 301456 | 335957 | 80,86 |
| 2015 | 3903936 | 4238349 | 88.97 | 328759 | 356600 | 74,48 |
| 2016 | 4199713 | 4630352 | 90.39 | 345652 | 369095 | 80,00 |
| 2017 | 4292540 | 4814022 | 89.17 | 358634 | 465955 | 77,23 |
| 2018 | 4292540 | 4600894 | 91.63 | 383908 | 481483 | 79,78 |

Lampiran 2

Data Input Variabel per Tahun

| Tahun | NPL (%) | LDR (%) | NIM (%) | BOPO(%) | SIZE (LNTA) |
|-----------|---------|---------|---------|---------|-------------|
| 2009 | 1,71 | 66,77 | 7,99 | 73,64 | 12,20 |
| 2010 | 2,24 | 71,13 | 8,92 | 74,87 | 12,34 |
| 2011 | 2,3 | 70,39 | 8,16 | 76,17 | 12,64 |
| 2012 | 1,73 | 66,40 | 6,71 | 75,29 | 12,81 |
| 2013 | 2,29 | 76,27 | 7,27 | 73,49 | 12,87 |
| 2014 | 2,75 | 80,86 | 6,70 | 78,08 | 12,99 |
| 2015 | 1,21 | 74,48 | 6,65 | 79,57 | 13,07 |
| 2016 | 1,73 | 80,00 | 7,18 | 78,08 | 13,19 |
| 2017 | 3,00 | 77,23 | 6,57 | 78,65 | 13,31 |
| 2018 | 3,90 | 79,78 | 6,10 | 77,22 | 13,37 |
| rata-rata | 2,29 | 74,33 | 7,23 | 76,51 | 12,88 |

Lampiran 3

Data Input Variabel untuk Pengolahan STATA 15.0

| Kode Bank | Tahun | Triwulan | NIM | LDR | NPL | TETA | BOPO | SIZE | Inflasi | PDRB |
|-----------|-------|----------|------|-------|------|--------|-------|-------|---------|-------|
| ACEH | 2009 | IV | 6.95 | 61.79 | 1.69 | 9.849 | 71.39 | 16.38 | 2.41 | -2.02 |
| ACEH | 2010 | I | 9.97 | 75.29 | 3.8 | 12.492 | 75.42 | 16.28 | 3.40 | 0.92 |
| ACEH | | II | 9.15 | 78.39 | 3.71 | 12.909 | 75.43 | 16.34 | 5.00 | 3.53 |
| ACEH | | III | 8.65 | 69.41 | 5.45 | 11.746 | 77.45 | 16.37 | 5.80 | 4.81 |
| ACEH | | IV | 8.26 | 81.74 | 7.02 | 10.715 | 92.98 | 16.32 | 7.00 | 5.32 |
| ACEH | 2011 | I | 6.17 | 93.92 | 7.41 | 12.290 | 88.71 | 16.25 | 6.70 | 5.6 |
| ACEH | | II | 6.45 | 88.59 | 7.24 | 11.851 | 81.96 | 16.35 | 5.50 | 5.48 |
| ACEH | | III | 6.87 | 85.49 | 7.35 | 10.393 | 76.98 | 16.43 | 4.60 | 5.03 |
| ACEH | | IV | 7.24 | 91.42 | 3.69 | 11.726 | 77.36 | 16.38 | 3.80 | 8.23 |
| ACEH | 2012 | I | 7.94 | 93.07 | 3.95 | 13.579 | 81.32 | 16.36 | 4.00 | 5.11 |
| ACEH | | II | 7.65 | 88.60 | 3.93 | 12.888 | 68.90 | 16.42 | 4.50 | 5.18 |
| ACEH | | III | 7.63 | 77.14 | 3.94 | 10.760 | 67.67 | 16.54 | 4.30 | 5.21 |
| ACEH | | IV | 7.87 | 89.89 | 3.3 | 12.748 | 71.51 | 16.42 | 4.30 | 5.42 |
| ACEH | 2013 | I | 7.73 | 81.55 | 3.31 | 12.836 | 67.10 | 16.52 | 4.30 | 4.77 |
| ACEH | | II | 7.23 | 72.85 | 3.45 | 11.165 | 66.79 | 16.62 | 5.90 | 3.96 |
| ACEH | | III | 6.97 | 67.92 | 4.06 | 9.131 | 71.90 | 16.70 | 5.90 | 4.16 |
| ACEH | | IV | 7.03 | 86.80 | 2.78 | 11.100 | 70.72 | 16.54 | 8.40 | 3.53 |
| ACEH | 2014 | I | 7.69 | 90.44 | 2.89 | 13.387 | 57.47 | 16.51 | 7.30 | 2.6 |
| ACEH | | II | 7.39 | 77.00 | 2.96 | 11.288 | 62.37 | 16.68 | 6.70 | 2.67 |
| ACEH | | III | 7.33 | 70.66 | 2.81 | 9.516 | 63.12 | 16.75 | 4.50 | 2.72 |
| ACEH | | IV | 7.64 | 92.38 | 2.58 | 11.056 | 73.32 | 16.61 | 8.40 | 2.66 |
| ACEH | 2015 | I | 7.62 | 78.69 | 2.64 | 11.437 | 73.14 | 16.71 | 6.40 | 2.59 |
| ACEH | | II | 7.24 | 66.81 | 2.62 | 8.525 | 74.57 | 16.86 | 7.30 | 2.65 |
| ACEH | | III | 7.14 | 61.47 | 2.51 | 8.262 | 78.00 | 16.91 | 6.80 | 2.76 |
| ACEH | | IV | 7.72 | 84.05 | 2.3 | 10.505 | 76.07 | 16.74 | 3.40 | 2.75 |
| ACEH | 2016 | I | 6.96 | 72.21 | 2.5 | 11.243 | 69.82 | 16.82 | 4.50 | 2.74 |
| ACEH | | II | 7.35 | 72.54 | 2.06 | 8.752 | 74.14 | 16.85 | 3.50 | 2.81 |

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|------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| ACEH | | III | -4.76 | 71.37 | 1.97 | 10.179 | 93.86 | 16.82 | 3.10 | 2.92 |
| ACEH | | IV | -2.13 | 84.59 | 1.39 | 11.054 | 94.43 | 16.75 | 3.00 | 2.96 |
| ACEH | 2017 | I | 2.91 | 83.52 | 1.49 | 11.354 | 69.69 | 16.81 | 3.61 | 2.96 |
| ACEH | | II | 1.82 | 64.97 | 1.51 | 8.591 | 75.43 | 16.95 | 4.40 | 2.99 |
| ACEH | | III | 1.68 | 60.76 | 1.48 | 8.806 | 77.23 | 16.98 | 3.70 | 3.11 |
| ACEH | | IV | 1.56 | 69.44 | 1.38 | 9.594 | 78.00 | 16.93 | 3.60 | 3.14 |
| ACEH | 2018 | I | 2.04 | 70.49 | 1.5 | 10.612 | 76.76 | 16.88 | 3.40 | 2.53 |
| ACEH | | II | 1.89 | 61.72 | 1.65 | 9.568 | 76.81 | 16.99 | 3.12 | 2.63 |
| ACEH | | III | 1.46 | 60.02 | 1.62 | 8.328 | 77.21 | 17.03 | 2.33 | 3.23 |
| ACEH | | IV | 0.91 | 71.98 | 1.04 | 9.604 | 79.09 | 16.96 | 1.84 | 3.09 |
| BALI | 2009 | IV | 8.9 | 103.75 | 0.68 | 12.218 | 66.72 | 15.71 | 2.41 | 3.73 |
| BALI | 2010 | I | 8.62 | 94.13 | 0.95 | 12.151 | 62.33 | 15.80 | 3.40 | 4.85 |
| BALI | | II | 8.88 | 93.64 | 0.58 | 10.997 | 61.42 | 15.85 | 5.00 | 5.74 |
| BALI | | III | 8.71 | 91.58 | 0.75 | 10.465 | 63.39 | 15.95 | 5.80 | 6.18 |
| BALI | | IV | 8.65 | 93.31 | 0.57 | 10.475 | 68.96 | 16.02 | 7.00 | 6.5 |
| BALI | 2011 | I | 8.04 | 83.53 | 0.59 | 10.555 | 67.30 | 16.08 | 6.70 | 6.01 |
| BALI | | II | 7.98 | 81.30 | 0.67 | 8.876 | 71.33 | 16.17 | 5.50 | 6.42 |
| BALI | | III | 7.89 | 77.91 | 0.63 | 9.704 | 69.85 | 16.16 | 4.60 | 6.54 |
| BALI | | IV | 7.79 | 82.73 | 0.57 | 10.439 | 69.74 | 16.18 | 3.80 | 6.95 |
| BALI | 2012 | I | 7.63 | 76.27 | 0.54 | 10.802 | 53.73 | 16.27 | 4.00 | 6.09 |
| BALI | | II | 7.51 | 74.84 | 0.48 | 9.806 | 60.31 | 16.31 | 4.50 | 6.76 |
| BALI | | III | 7.39 | 72.09 | 0.49 | 9.741 | 59.19 | 16.41 | 4.30 | 6.79 |
| BALI | | IV | 7.5 | 80.60 | 0.45 | 11.728 | 62.82 | 16.35 | 4.30 | 6.94 |
| BALI | 2013 | I | 7.54 | 76.46 | 0.51 | 11.655 | 60.84 | 16.43 | 4.30 | 6.71 |
| BALI | | II | 7.52 | 77.15 | 0.45 | 10.485 | 61.19 | 16.46 | 5.90 | 6.05 |
| BALI | | III | 7.55 | 77.58 | 0.41 | 11.117 | 58.25 | 16.49 | 5.90 | 5.97 |
| BALI | | IV | 7.63 | 87.87 | 0.33 | 12.683 | 63.03 | 16.48 | 8.40 | 5.49 |
| BALI | 2014 | I | 7.79 | 86.05 | 0.36 | 13.106 | 62.72 | 16.51 | 7.30 | 6.55 |
| BALI | | II | 7.75 | 84.95 | 0.42 | 12.640 | 63.08 | 16.58 | 6.70 | 6.21 |
| BALI | | III | 7.65 | 84.00 | 0.34 | 13.419 | 62.22 | 16.67 | 4.50 | 6.21 |
| BALI | | IV | 7.68 | 96.41 | 0.35 | 14.234 | 64.89 | 16.65 | 8.40 | 7.88 |

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|----------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| BALI | 2015 | I | 7.23 | 81.57 | 0.39 | 11.985 | 73.74 | 16.73 | 6.40 | 5.99 |
| BALI | | II | 6.72 | 81.08 | 1.88 | 12.635 | 71.77 | 16.81 | 7.30 | 5.92 |
| BALI | | III | 6.69 | 81.61 | 1.98 | 12.986 | 71.42 | 16.84 | 6.80 | 6.3 |
| BALI | | IV | 6.85 | 97.32 | 1.96 | 15.971 | 69.67 | 16.79 | 3.40 | 6.1 |
| BALI | 2016 | I | 7.32 | 91.36 | 2.26 | 16.098 | 69.73 | 16.82 | 4.50 | 6.38 |
| BALI | | II | 7.57 | 93.90 | 2.32 | 14.930 | 67.46 | 16.81 | 3.50 | 6.54 |
| BALI | | III | 7.67 | 91.53 | 2.33 | 14.989 | 65.68 | 16.87 | 3.10 | 6.61 |
| BALI | | IV | 7.75 | 102.75 | 1.47 | 15.987 | 66.51 | 16.83 | 3.00 | 5.47 |
| BALI | 2017 | I | 7.54 | 89.36 | 2.01 | 15.584 | 67.90 | 16.90 | 3.61 | 5.75 |
| BALI | | II | 7.4 | 88.60 | 2.45 | 13.624 | 70.33 | 16.91 | 4.40 | 6.01 |
| BALI | | III | 7.33 | 86.08 | 2.62 | 13.823 | 68.40 | 16.96 | 3.70 | 6.22 |
| BALI | | IV | 7.28 | 92.57 | 3.1 | 14.757 | 71.01 | 16.91 | 3.60 | 4.01 |
| BALI | 2018 | I | 7.29 | 90.51 | 3.5 | 15.096 | 70.46 | 16.93 | 3.40 | 5.62 |
| BALI | | II | 7.11 | 87.04 | 3.75 | 13.611 | 65.59 | 16.95 | 3.47 | 6.11 |
| BALI | | III | 7.09 | 82.01 | 3.8 | 13.374 | 67.16 | 17.01 | 3.60 | 6.08 |
| BALI | | IV | 7.1 | 91.22 | 3.17 | 15.117 | 70.08 | 16.93 | 3.13 | 7.59 |
| BENGKULU | 2009 | IV | 11.97 | 129.59 | 1.52 | 10.886 | 75.16 | 14.31 | 2.41 | 2.88 |
| BENGKULU | 2010 | I | 23.92 | 84.61 | 1.88 | 7.606 | 57.58 | 14.55 | 3.40 | 7.41 |
| BENGKULU | | II | 12.52 | 117.41 | 0.9 | 5.335 | 66.32 | 14.50 | 5.00 | 5.46 |
| BENGKULU | | III | 21.72 | 73.67 | 2.13 | 6.107 | 70.41 | 14.47 | 5.80 | 7.58 |
| BENGKULU | | IV | 18.04 | 89.20 | 1.66 | 13.806 | 70.24 | 14.23 | 7.00 | 2.96 |
| BENGKULU | 2011 | I | 12.44 | 61.98 | 1.6 | 5.523 | 72.52 | 14.57 | 6.70 | 5.24 |
| BENGKULU | | II | 12.68 | 63.93 | 1.32 | 10.461 | 77.31 | 14.66 | 5.50 | 6.8 |
| BENGKULU | | III | 12.22 | 64.29 | 1.28 | 9.347 | 80.21 | 14.69 | 4.60 | 6.45 |
| BENGKULU | | IV | 10.82 | 75.14 | 0.67 | 10.344 | 78.12 | 14.59 | 3.80 | 7.15 |
| BENGKULU | 2012 | I | 10.25 | 60.44 | 0.54 | 9.431 | 67.41 | 14.90 | 4.00 | 6.83 |
| BENGKULU | | II | 9.99 | 64.23 | 0.48 | 7.947 | 66.25 | 14.99 | 4.50 | 6.63 |
| BENGKULU | | III | 10.5 | 62.40 | 0.46 | 8.271 | 67.78 | 15.06 | 4.30 | 7 |
| BENGKULU | | IV | 7.7 | 93.27 | 0.22 | 10.185 | 73.27 | 14.84 | 4.30 | 5.99 |
| BENGKULU | 2013 | I | 9.49 | 68.73 | 0.22 | 8.077 | 61.51 | 15.12 | 4.30 | 5.65 |
| BENGKULU | | II | 9 | 67.91 | 0.35 | 8.319 | 63.81 | 15.18 | 5.90 | 5.66 |

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|----------|------|-----|------|--------|------|--------|-------|-------|------|------|
| BENGKULU | | III | 9.06 | 71.75 | 0.4 | 8.936 | 64.24 | 15.21 | 5.90 | 6 |
| BENGKULU | | IV | 9.36 | 105.04 | 0.38 | 11.488 | 68.99 | 14.97 | 8.40 | 7.83 |
| BENGKULU | 2014 | I | 9.04 | 72.96 | 0.48 | 9.931 | 65.69 | 15.22 | 7.30 | 7.12 |
| BENGKULU | | II | 8.43 | 62.22 | 0.36 | 8.133 | 65.53 | 15.43 | 6.70 | 5.87 |
| BENGKULU | | III | 8.5 | 65.64 | 0.35 | 8.756 | 69.02 | 15.42 | 4.50 | 5.14 |
| BENGKULU | | IV | 8.39 | 86.06 | 0.39 | 11.721 | 72.41 | 15.18 | 8.40 | 5.57 |
| BENGKULU | 2015 | I | 7.11 | 58.87 | 0.42 | 9.741 | 73.97 | 15.45 | 6.40 | 5.25 |
| BENGKULU | | II | 6.29 | 56.08 | 0.4 | 8.438 | 73.19 | 15.57 | 7.30 | 5.25 |
| BENGKULU | | III | 6.46 | 61.80 | 0.39 | 6.970 | 75.25 | 15.57 | 6.80 | 5.19 |
| BENGKULU | | IV | 6.86 | 91.38 | 0.39 | 11.526 | 77.06 | 15.34 | 3.40 | 4.87 |
| BENGKULU | 2016 | I | 7.7 | 69.95 | 0.39 | 9.583 | 63.50 | 15.53 | 4.50 | 5.02 |
| BENGKULU | | II | 7.26 | 72.18 | 0.4 | 9.844 | 73.85 | 15.54 | 3.50 | 5.43 |
| BENGKULU | | III | 7.34 | 74.40 | 0.46 | 10.275 | 76.10 | 15.56 | 3.10 | 5.18 |
| BENGKULU | | IV | 7.69 | 93.95 | 0.33 | 12.042 | 77.72 | 15.45 | 3.00 | 5.56 |
| BENGKULU | 2017 | I | 6.68 | 70.66 | 0.32 | 10.629 | 72.39 | 15.67 | 3.61 | 5.21 |
| BENGKULU | | II | 5.95 | 64.25 | 0.35 | 8.904 | 80.03 | 15.77 | 4.40 | 5.28 |
| BENGKULU | | III | 5.86 | 66.34 | 0.38 | 9.425 | 82.29 | 15.76 | 3.70 | 4.9 |
| BENGKULU | | IV | 6.12 | 89.86 | 0.42 | 13.884 | 82.55 | 15.45 | 3.60 | 4.6 |
| BENGKULU | 2018 | I | 7.67 | 76.57 | 0.55 | 11.518 | 65.31 | 15.66 | 3.40 | 5.07 |
| BENGKULU | | II | 7.97 | 80.87 | 0.63 | 12.331 | 74.72 | 15.63 | 3.12 | 5.09 |
| BENGKULU | | III | 8.05 | 85.50 | 0.73 | 13.189 | 73.95 | 15.62 | 2.87 | 4.98 |
| BENGKULU | | IV | 7.5 | 104.33 | 0.62 | 13.054 | 84.96 | 15.59 | 2.35 | 4.99 |
| DKI | 2009 | IV | 6.14 | 57.25 | 5.76 | 5.911 | 88.46 | 16.55 | 2.41 | 5 |
| DKI | 2010 | I | 6.75 | 57.42 | 6.7 | 7.136 | 72.08 | 16.51 | 3.40 | 6.2 |
| DKI | | II | 5.85 | 52.21 | 4.05 | 6.116 | 85.30 | 16.62 | 5.00 | 6.8 |
| DKI | | III | 5.47 | 52.58 | 3.39 | 6.099 | 83.17 | 16.69 | 5.80 | 6.4 |
| DKI | | IV | 5.06 | 70.48 | 3.73 | 6.757 | 83.02 | 16.56 | 7.00 | 6.5 |
| DKI | 2011 | I | 5.8 | 66.06 | 4.43 | 8.116 | 70.41 | 16.60 | 6.70 | 6.7 |
| DKI | | II | 5.74 | 65.35 | 4.09 | 7.072 | 76.04 | 16.71 | 5.50 | 6.7 |
| DKI | | III | 5.66 | 66.11 | 3.79 | 7.075 | 78.70 | 16.78 | 4.60 | 6.7 |
| DKI | | IV | 5.56 | 73.03 | 3.12 | 6.351 | 79.74 | 16.79 | 3.80 | 6.6 |

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|-------|------|-----|-------|-------|------|--------|-------|-------|------|------|
| DKI | 2012 | I | 5.5 | 65.53 | 3.29 | 6.428 | 58.64 | 16.90 | 4.00 | 6.4 |
| DKI | | II | 5.17 | 62.60 | 2.66 | 5.829 | 76.10 | 17.04 | 4.50 | 6.7 |
| DKI | | III | 5.18 | 58.86 | 3.66 | 5.105 | 75.40 | 17.12 | 4.30 | 6.4 |
| DKI | | IV | 5.26 | 73.50 | 3.2 | 7.274 | 81.43 | 17.10 | 4.30 | 6.5 |
| DKI | 2013 | I | 5.84 | 75.65 | 3.28 | 8.749 | 66.38 | 17.02 | 4.30 | 6.5 |
| DKI | | II | 6.13 | 73.28 | 3.61 | 9.541 | 71.20 | 17.17 | 5.90 | 6.3 |
| DKI | | III | 6.32 | 72.17 | 2.79 | 9.552 | 74.10 | 17.24 | 5.90 | 6.19 |
| DKI | | IV | 7.32 | 95.20 | 2.38 | 10.079 | 74.99 | 17.24 | 8.40 | 5.63 |
| DKI | 2014 | I | 7.12 | 90.55 | 2.65 | 11.165 | 67.48 | 17.20 | 7.30 | 6 |
| DKI | | II | 6.71 | 85.65 | 2.5 | 13.081 | 71.91 | 17.33 | 6.70 | 6.1 |
| DKI | | III | 6.58 | 77.24 | 2.36 | 12.190 | 74.58 | 17.44 | 4.50 | 6 |
| DKI | | IV | 6.56 | 92.57 | 4.38 | 11.957 | 80.26 | 17.41 | 8.40 | 6.2 |
| DKI | 2015 | I | 6.36 | 79.87 | 4.81 | 12.434 | 64.03 | 17.45 | 6.40 | 5.5 |
| DKI | | II | 6.15 | 82.03 | 7.27 | 10.753 | 92.96 | 17.48 | 7.30 | 5.3 |
| DKI | | III | 6.24 | 73.63 | 7.18 | 9.864 | 92.99 | 17.51 | 6.80 | 6.1 |
| DKI | | IV | 6.61 | 91.14 | 7.96 | 15.233 | 90.99 | 17.47 | 3.40 | 6.5 |
| DKI | 2016 | I | 7.39 | 89.57 | 8.26 | 17.362 | 79.54 | 17.44 | 4.50 | 5.6 |
| DKI | | II | 7.84 | 89.56 | 7.77 | 17.374 | 79.25 | 17.47 | 3.50 | 5.9 |
| DKI | | III | 7.42 | 82.99 | 7.6 | 16.740 | 80.26 | 17.55 | 3.10 | 5.8 |
| DKI | | IV | 7.27 | 87.41 | 5.35 | 18.232 | 77.82 | 17.52 | 3.00 | 5.5 |
| DKI | 2017 | I | 6.78 | 72.82 | 5.37 | 16.850 | 78.25 | 17.64 | 3.61 | 6.4 |
| DKI | | II | 6.47 | 72.07 | 4.73 | 16.421 | 77.91 | 17.67 | 4.40 | 6 |
| DKI | | III | 5.46 | 61.86 | 4.74 | 15.014 | 77.82 | 17.80 | 3.70 | 6.3 |
| DKI | | IV | 5.31 | 70.77 | 3.76 | 15.955 | 76.97 | 17.76 | 3.60 | 5.9 |
| DKI | 2018 | I | 4.99 | 65.07 | 4.08 | 16.169 | 80.58 | 17.75 | 3.40 | 6 |
| DKI | | II | 5.18 | 79.36 | 3.82 | 17.720 | 76.44 | 17.65 | 3.12 | 5.9 |
| DKI | | III | 5.5 | 82.66 | 3.19 | 16.977 | 77.88 | 17.70 | 2.88 | 6.17 |
| DKI | | IV | | 78.57 | 2.36 | 16.192 | 61.16 | 17.79 | 3.27 | 6.4 |
| JAMBI | 2009 | IV | 12.29 | 97.64 | 0.56 | 14.523 | 62.94 | 14.38 | 2.41 | 5.92 |
| JAMBI | 2010 | I | 10.43 | 54.11 | 0.59 | 6.165 | 75.16 | 15.06 | 3.40 | 6.02 |
| JAMBI | | II | 10.52 | 61.43 | 0.52 | 7.229 | 75.03 | 14.98 | 5.00 | 6.71 |

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|-------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| JAMBI | | III | 10.81 | 57.56 | 0.6 | 6.921 | 77.15 | 15.07 | 5.80 | 7.77 |
| JAMBI | | IV | 17.34 | 84.09 | 0.4 | 15.489 | 57.55 | 14.61 | 7.00 | 8.68 |
| JAMBI | 2011 | I | 21.22 | 55.72 | 0.46 | 8.878 | 58.67 | 15.23 | 6.70 | 9.04 |
| JAMBI | | II | 14.97 | 50.45 | 0.43 | 4.867 | 59.07 | 15.37 | 5.50 | 8.56 |
| JAMBI | | III | 11.38 | 50.48 | 0.41 | 6.061 | 70.11 | 15.39 | 4.60 | 8.74 |
| JAMBI | | IV | 11.71 | 66.55 | 0.36 | 13.681 | 61.16 | 14.94 | 3.80 | 7.86 |
| JAMBI | 2012 | I | 8.45 | 47.16 | 0.36 | 6.902 | 70.07 | 15.65 | 4.00 | 6.3 |
| JAMBI | | II | 7.91 | 52.15 | 0.35 | 10.932 | 69.59 | 15.23 | 4.50 | 7.15 |
| JAMBI | | III | 7.65 | 56.17 | 0.32 | 9.726 | 71.82 | 15.26 | 4.30 | 7.29 |
| JAMBI | | IV | 8.21 | 82.29 | 0.33 | 15.060 | 63.32 | 15.12 | 4.30 | 9.09 |
| JAMBI | 2013 | I | 7.93 | 61.89 | 0.32 | 12.821 | 62.02 | 15.35 | 4.30 | 8.36 |
| JAMBI | | II | 7.22 | 67.76 | 0.25 | 12.092 | 64.67 | 15.37 | 5.90 | 8.44 |
| JAMBI | | III | 7.75 | 77.02 | 0.26 | 12.734 | 66.12 | 15.38 | 5.90 | 7.87 |
| JAMBI | | IV | 8.16 | 110.13 | 0.41 | 17.803 | 62.07 | 15.27 | 8.40 | 6.93 |
| JAMBI | 2014 | I | 8.87 | 88.84 | 0.22 | 14.887 | 58.32 | 15.53 | 7.30 | 9.06 |
| JAMBI | | II | 6.86 | 66.64 | 0.58 | 11.169 | 66.19 | 15.78 | 6.70 | 6.65 |
| JAMBI | | III | 6.31 | 72.00 | 0.63 | 11.691 | 74.53 | 15.80 | 4.50 | 6.74 |
| JAMBI | | IV | 6.52 | 100.83 | 0.48 | 15.792 | 71.45 | 15.57 | 8.40 | 7.05 |
| JAMBI | 2015 | I | 5.13 | 67.80 | 1.02 | 13.362 | 84.00 | 15.77 | 6.40 | 5.9 |
| JAMBI | | II | 4.66 | 64.22 | 1.14 | 11.489 | 85.11 | 15.96 | 7.30 | 4.33 |
| JAMBI | | III | 4.8 | 65.48 | 1.15 | 11.733 | 86.20 | 15.87 | 6.80 | 4.38 |
| JAMBI | | IV | 5.36 | 106.00 | 1.1 | 14.970 | 77.26 | 15.70 | 3.40 | 3.18 |
| JAMBI | 2016 | I | 0.38 | 74.98 | 1.17 | 12.578 | 76.28 | 15.93 | 4.50 | 3.6 |
| JAMBI | | II | 6.46 | 96.38 | 1.02 | 12.502 | 81.28 | 15.88 | 3.50 | 3.61 |
| JAMBI | | III | 5.5 | 88.81 | 0.48 | 13.183 | 83.40 | 15.84 | 3.10 | 3.96 |
| JAMBI | | IV | 5.92 | 103.09 | 0.4 | 14.555 | 71.89 | 15.84 | 3.00 | 6.28 |
| JAMBI | 2017 | I | 1.54 | 73.29 | 0.37 | 13.982 | 70.10 | 15.97 | 3.61 | 4.25 |
| JAMBI | | II | 3.15 | 77.99 | 0.4 | 12.838 | 72.33 | 16.03 | 4.40 | 4.32 |
| JAMBI | | III | 6.24 | 74.29 | 0.45 | 12.466 | 72.33 | 16.11 | 3.70 | 4.76 |
| JAMBI | | IV | 5.92 | 100.75 | 0.47 | 13.479 | 66.48 | 16.07 | 3.60 | 5.2 |
| JAMBI | 2018 | I | 1.41 | 77.06 | 0.47 | 13.568 | 74.55 | 16.12 | 3.40 | 4.62 |

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|-------|------|-----|------|--------|------|--------|-------|-------|------|------|
| JAMBI | | II | 5.75 | 84.68 | 0.46 | 12.982 | 77.57 | 16.11 | 3.12 | 4.7 |
| JAMBI | | III | 7.21 | 92.64 | 0.47 | 12.827 | 77.00 | 16.18 | 3.43 | 4.64 |
| JAMBI | | IV | 8.04 | 100.64 | 0.37 | 13.407 | 75.84 | 16.20 | 3.02 | 4.71 |
| BJB | 2009 | IV | 7.63 | 82.44 | 1.97 | 9.539 | 77.30 | 17.29 | 2.41 | 4.82 |
| BJB | 2010 | I | 8.71 | 71.14 | 2.05 | 9.217 | 77.30 | 17.39 | 3.40 | 5.48 |
| BJB | | II | 7.74 | 63.73 | 1.86 | 8.175 | 70.80 | 17.49 | 5.00 | 5.87 |
| BJB | | III | 7.49 | 63.60 | 2.01 | 11.725 | 72.52 | 17.54 | 5.80 | 6.06 |
| BJB | | IV | 7 | 71.00 | 2 | 11.865 | 77.00 | 17.55 | 7.00 | 6.31 |
| BJB | 2011 | I | 6.54 | 70.17 | 2.43 | 10.299 | 77.25 | 17.63 | 6.70 | 7.3 |
| BJB | | II | 6.77 | 71.85 | 2.41 | 9.224 | 75.47 | 17.68 | 5.50 | 6.1 |
| BJB | | III | 6.76 | 67.68 | 2.61 | 10.013 | 78.03 | 17.77 | 4.60 | 5.9 |
| BJB | | IV | 7 | 73.00 | 1 | 10.277 | 80.00 | 17.77 | 3.80 | 6.6 |
| BJB | 2012 | I | 6.33 | 56.30 | 1.2 | 8.197 | 76.24 | 17.93 | 4.00 | 6.3 |
| BJB | | II | 6.88 | 65.48 | 1.41 | 9.132 | 75.89 | 17.89 | 4.50 | 6.5 |
| BJB | | III | 7.12 | 64.95 | 1.7 | 8.768 | 76.76 | 17.99 | 4.30 | 6.6 |
| BJB | | IV | 6.76 | 74.09 | 2.07 | 8.878 | 80.02 | 18.02 | 4.30 | 5.5 |
| BJB | 2013 | I | 8.16 | 83.24 | 2.11 | 8.793 | 74.40 | 17.98 | 4.30 | 6 |
| BJB | | II | 8.16 | 80.77 | 2.31 | 8.683 | 75.93 | 18.05 | 5.90 | 6.2 |
| BJB | | III | 8.05 | 82.16 | 2.46 | 8.869 | 77.01 | 18.09 | 5.90 | 5.7 |
| BJB | | IV | 7.96 | 96.47 | 2.83 | 9.983 | 79.41 | 18.02 | 8.40 | 6.3 |
| BJB | 2014 | I | 6.77 | 78.18 | 3.82 | 8.405 | 79.60 | 18.12 | 7.30 | 5.5 |
| BJB | | II | 6.42 | 80.49 | 3.97 | 8.641 | 84.98 | 18.12 | 6.70 | 5.6 |
| BJB | | III | 6.68 | 79.72 | 4.14 | 8.944 | 85.16 | 18.12 | 4.50 | 5.6 |
| BJB | | IV | 6.79 | 93.18 | 4.15 | 8.944 | 85.60 | 18.12 | 8.40 | 5.46 |
| BJB | 2015 | I | 6.76 | 74.57 | 4.19 | 8.180 | 78.05 | 18.22 | 6.40 | 4.91 |
| BJB | | II | 6.03 | 67.47 | 3.65 | 7.658 | 84.40 | 18.32 | 7.30 | 4.94 |
| BJB | | III | 6.05 | 70.73 | 3.52 | 7.986 | 84.26 | 18.32 | 6.80 | 5.02 |
| BJB | | IV | 6.32 | 88.13 | 2.91 | 9.244 | 83.31 | 18.23 | 3.40 | 5.23 |
| BJB | 2016 | I | 6.93 | 74.10 | 2.84 | 8.123 | 78.08 | 18.31 | 4.50 | 5.13 |
| BJB | | II | 7.2 | 88.10 | 2.02 | 10.243 | 77.92 | 18.33 | 3.50 | 5.88 |
| BJB | | III | 7.23 | 86.33 | 1.73 | 11.408 | 77.36 | 18.27 | 3.10 | 5.97 |

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|--------|------|-----|------|-------|------|--------|-------|-------|------|------|
| BJB | | IV | 7.4 | 86.70 | 1.69 | 10.355 | 81.22 | 18.38 | 3.00 | 5.45 |
| BJB | 2017 | I | 6.51 | 80.24 | 1.62 | 9.692 | 79.05 | 18.40 | 3.61 | 5.29 |
| BJB | | II | 6.76 | 85.85 | 1.57 | 9.804 | 79.01 | 18.44 | 4.40 | 5.35 |
| BJB | | III | 6.73 | 81.50 | 1.53 | 9.700 | 80.53 | 18.50 | 3.70 | 5.2 |
| BJB | | IV | 6.76 | 87.27 | 1.51 | 9.900 | 82.25 | 18.50 | 3.60 | 5.32 |
| BJB | 2018 | I | 5.99 | 81.63 | 1.62 | 9.305 | 80.20 | 18.52 | 3.40 | 5.96 |
| BJB | | II | 6.31 | 86.45 | 1.61 | 10.898 | 80.43 | 18.50 | 3.12 | 5.65 |
| BJB | | III | 6.52 | 88.25 | 1.58 | 11.208 | 80.74 | 18.50 | 3.17 | 5.57 |
| BJB | | IV | 6.37 | 91.89 | 1.65 | 10.370 | 84.22 | 18.56 | 3.54 | 5.5 |
| JATENG | 2009 | IV | 9.33 | 89.18 | 0.26 | 10.318 | 71.36 | 16.51 | 2.41 | 4.6 |
| JATENG | 2010 | I | 9.49 | 72.25 | 0.3 | 9.567 | 70.64 | 16.68 | 3.40 | 6.1 |
| JATENG | | II | 8.88 | 66.43 | 0.37 | 7.629 | 70.87 | 16.78 | 5.00 | 6 |
| JATENG | | III | 9.13 | 67.77 | 0.57 | 8.153 | 72.24 | 16.79 | 5.80 | 5.6 |
| JATENG | | IV | 9.24 | 74.13 | 0.53 | 9.453 | 79.61 | 16.75 | 7.00 | 5.7 |
| JATENG | 2011 | I | 8.85 | 64.81 | 0.69 | 8.494 | 71.84 | 16.88 | 6.70 | 6.5 |
| JATENG | | II | 8.5 | 67.22 | 1.17 | 5.723 | 76.06 | 16.88 | 5.50 | 6.3 |
| JATENG | | III | 8.61 | 69.06 | 1.15 | 6.133 | 77.44 | 16.88 | 4.60 | 4.9 |
| JATENG | | IV | 8.43 | 70.17 | 1.04 | 8.829 | 79.11 | 16.95 | 3.80 | 6.4 |
| JATENG | 2012 | I | 8.2 | 59.33 | 1.05 | 8.342 | 70.90 | 17.10 | 4.00 | 6.1 |
| JATENG | | II | 7.83 | 58.51 | 1.05 | 7.111 | 76.18 | 17.17 | 4.50 | 6.6 |
| JATENG | | III | 7.9 | 61.02 | 1.06 | 7.501 | 72.47 | 17.21 | 4.30 | 6 |
| JATENG | | IV | 8.22 | 82.62 | 0.8 | 8.997 | 76.35 | 17.09 | 4.30 | 6.3 |
| JATENG | 2013 | I | 7.51 | 68.64 | 0.75 | 8.251 | 61.72 | 17.27 | 4.30 | 5.6 |
| JATENG | | II | 8.74 | 73.10 | 0.77 | 7.150 | 65.70 | 17.26 | 5.90 | 6.2 |
| JATENG | | III | 8.51 | 70.81 | 0.64 | 6.600 | 68.61 | 17.33 | 5.90 | 5.9 |
| JATENG | | IV | 8.44 | 86.96 | 0.72 | 8.826 | 72.88 | 17.24 | 8.40 | 5.6 |
| JATENG | 2014 | I | 8.34 | 78.53 | 0.72 | 7.966 | 67.87 | 17.34 | 7.30 | 5.4 |
| JATENG | | II | 7.93 | 69.39 | 0.83 | 6.556 | 72.38 | 17.46 | 6.70 | 3.94 |
| JATENG | | III | 7.64 | 72.42 | 0.88 | 6.970 | 72.88 | 17.48 | 4.50 | 5.82 |
| JATENG | | IV | 7.55 | 88.57 | 0.93 | 8.494 | 81.80 | 17.38 | 8.40 | 5.63 |
| JATENG | 2015 | I | 7.51 | 72.07 | 0.98 | 8.059 | 69.25 | 17.55 | 6.40 | 5.64 |

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|------------|------|-----|------|-------|------|--------|-------|-------|------|------|
| JATENG | | II | 7.24 | 69.38 | 1.09 | 6.897 | 71.70 | 17.65 | 7.30 | 5.06 |
| JATENG | | III | 7.14 | 70.34 | 1.22 | 6.760 | 74.06 | 17.68 | 6.80 | 5 |
| JATENG | | IV | 7.25 | 90.54 | 1.26 | 8.970 | 76.02 | 17.53 | 3.40 | 6.08 |
| JATENG | 2016 | I | 7.46 | 71.94 | 1.38 | 8.137 | 68.58 | 17.73 | 4.50 | 4.98 |
| JATENG | | II | 7.13 | 79.98 | 1.45 | 10.179 | 72.64 | 17.74 | 3.50 | 5.75 |
| JATENG | | III | 6.91 | 77.33 | 1.5 | 11.103 | 72.32 | 17.81 | 3.10 | 5.01 |
| JATENG | | IV | 7.01 | 95.05 | 1.45 | 10.912 | 76.18 | 17.75 | 3.00 | 5.33 |
| JATENG | 2017 | I | 6.26 | 75.27 | 1.56 | 10.433 | 68.84 | 17.90 | 3.61 | 5.31 |
| JATENG | | II | 5.32 | 77.06 | 1.61 | 9.730 | 73.54 | 17.94 | 4.40 | 5.15 |
| JATENG | | III | 5.68 | 79.40 | 1.69 | 10.283 | 71.48 | 17.95 | 3.70 | 5.13 |
| JATENG | | IV | 5.73 | 95.10 | 1.64 | 10.820 | 74.60 | 17.93 | 3.60 | 5.4 |
| JATENG | 2018 | I | 6.34 | 81.95 | 1.83 | 9.768 | 68.40 | 17.98 | 3.40 | 5.41 |
| JATENG | | II | 6.18 | 84.57 | 1.88 | 9.333 | 70.96 | 17.99 | 3.12 | 5.54 |
| JATENG | | III | 6.25 | 87.31 | 1.84 | 9.642 | 69.25 | 18.00 | 2.79 | 5.21 |
| JATENG | | IV | | | | | | | 2.82 | 5.28 |
| JAWA TIMUR | 2009 | IV | 7.66 | 69.67 | 1.05 | 11.816 | 66.04 | 16.67 | 2.41 | 5.16 |
| JAWA TIMUR | 2010 | I | 9.3 | 64.50 | 1.13 | 7.833 | 58.87 | 16.80 | 3.40 | 5.23 |
| JAWA TIMUR | | II | 9.36 | 62.45 | 1.14 | 10.322 | 57.80 | 16.90 | 5.00 | 5.23 |
| JAWA TIMUR | | III | 9.1 | 68.19 | 1.18 | 11.283 | 60.59 | 16.90 | 5.80 | 7.14 |
| JAWA TIMUR | | IV | 9.17 | 80.70 | 0.65 | 13.788 | 59.58 | 16.81 | 7.00 | 7.16 |
| JAWA TIMUR | 2011 | I | 8.21 | 74.09 | 0.75 | 13.459 | 51.40 | 16.92 | 6.70 | 6.98 |
| JAWA TIMUR | | II | 7.77 | 71.33 | 0.88 | 11.064 | 59.47 | 17.01 | 5.50 | 7.25 |
| JAWA TIMUR | | III | 7.94 | 73.22 | 1.18 | 11.627 | 57.09 | 17.06 | 4.60 | 7.3 |
| JAWA TIMUR | | IV | 7.95 | 80.11 | 0.97 | 13.121 | 60.02 | 17.03 | 3.80 | 7.11 |
| JAWA TIMUR | 2012 | I | 6.89 | 67.90 | 1.36 | 12.697 | 61.15 | 17.19 | 4.00 | 7.27 |
| JAWA TIMUR | | II | 6.21 | 71.41 | 2.55 | 12.820 | 68.75 | 17.22 | 4.50 | 7.31 |
| JAWA TIMUR | | III | 6.48 | 70.69 | 2.72 | 16.117 | 70.66 | 17.31 | 4.30 | 7.41 |
| JAWA TIMUR | | IV | 6.48 | 83.55 | 2.95 | 18.848 | 68.89 | 17.19 | 4.30 | 7.09 |
| JAWA TIMUR | 2013 | I | 6.81 | 73.34 | 3.15 | 15.693 | 64.06 | 17.30 | 4.30 | 6.57 |
| JAWA TIMUR | | II | 6.58 | 74.52 | 3.29 | 15.770 | 66.05 | 17.33 | 5.90 | 6.9 |
| JAWA TIMUR | | III | 6.92 | 75.09 | 3.13 | 15.702 | 65.62 | 17.39 | 5.90 | 6.51 |

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|------------|------|-----|-------|-------|------|--------|-------|-------|------|------|
| JAWA TIMUR | | IV | 7.14 | 84.98 | 3.44 | 17.305 | 70.28 | 17.31 | 8.40 | 6.21 |
| JAWA TIMUR | 2014 | I | 7.72 | 80.43 | 3.63 | 15.274 | 60.14 | 17.38 | 7.30 | 6.03 |
| JAWA TIMUR | | II | 7.03 | 69.96 | 3.53 | 13.400 | 64.89 | 17.56 | 6.70 | 5.88 |
| JAWA TIMUR | | III | 7.07 | 73.06 | 3.34 | 13.696 | 68.46 | 17.57 | 4.50 | 6.02 |
| JAWA TIMUR | | IV | 6.9 | 86.54 | 3.31 | 15.905 | 69.63 | 17.45 | 8.40 | 5.49 |
| JAWA TIMUR | 2015 | I | 6.9 | 69.96 | 3.87 | 13.750 | 72.06 | 17.64 | 6.40 | 5.05 |
| JAWA TIMUR | | II | 6.52 | 66.28 | 3.82 | 11.814 | 71.62 | 17.73 | 7.30 | 5.23 |
| JAWA TIMUR | | III | 6.65 | 66.82 | 4.22 | 11.722 | 75.20 | 17.77 | 6.80 | 5.53 |
| JAWA TIMUR | | IV | 6.41 | 82.92 | 4.29 | 14.708 | 76.11 | 17.57 | 3.40 | 5.94 |
| JAWA TIMUR | 2016 | I | 6.83 | 68.11 | 4.59 | 12.132 | 65.26 | 17.71 | 4.50 | 5.44 |
| JAWA TIMUR | | II | 6.69 | 72.64 | 4.58 | 12.922 | 70.56 | 17.69 | 3.50 | 5.64 |
| JAWA TIMUR | | III | 6.7 | 71.97 | 4.92 | 13.995 | 71.13 | 17.73 | 3.10 | 5.62 |
| JAWA TIMUR | | IV | 6.94 | 90.48 | 4.77 | 16.754 | 72.22 | 17.58 | 3.00 | 5.48 |
| JAWA TIMUR | 2017 | I | 7.18 | 70.62 | 4.84 | 13.762 | 62.62 | 17.73 | 3.61 | 5.37 |
| JAWA TIMUR | | II | 6.99 | 72.26 | 4.8 | 14.203 | 61.83 | 17.76 | 4.40 | 5.05 |
| JAWA TIMUR | | III | 6.82 | 69.79 | 4.92 | 14.048 | 64.88 | 17.80 | 3.70 | 5.64 |
| JAWA TIMUR | | IV | 6.68 | 79.69 | 4.59 | 15.171 | 68.63 | 17.76 | 3.60 | 5.72 |
| JAWA TIMUR | 2018 | I | 6.57 | 69.80 | 4.84 | 13.619 | 59.89 | 17.83 | 3.40 | 5.46 |
| JAWA TIMUR | | II | 6.41 | 64.86 | 4.79 | 13.293 | 61.40 | 17.90 | 3.12 | 5.59 |
| JAWA TIMUR | | III | 6.38 | | 4.25 | 12.955 | 64.86 | 17.97 | 2.75 | 5.37 |
| JAWA TIMUR | | IV | | | | 13.514 | | 17.95 | 2.86 | 5.65 |
| KALBAR | 2009 | IV | 9.17 | 87.76 | 0.09 | 8.477 | 81.35 | 15.40 | 2.41 | 5.39 |
| KALBAR | 2010 | I | 8.91 | 70.62 | 0.11 | 8.765 | 68.68 | 15.47 | 3.40 | 5.2 |
| KALBAR | | II | 9.14 | 70.57 | 0.14 | 6.341 | 68.36 | 15.50 | 5.00 | 4.67 |
| KALBAR | | III | 9.09 | 72.58 | 0.14 | 8.284 | 70.07 | 15.56 | 5.80 | 6.14 |
| KALBAR | | IV | 10.06 | 84.34 | 0.13 | 9.320 | 70.23 | 15.59 | 7.00 | 5.42 |
| KALBAR | 2011 | I | 8.84 | 69.69 | 0.13 | 10.487 | 68.14 | 15.69 | 6.70 | 5.13 |
| KALBAR | | II | 13.02 | 68.81 | 0.16 | 8.834 | 61.83 | 15.77 | 5.50 | 5.95 |
| KALBAR | | III | 11.84 | 71.66 | 0.16 | 8.782 | 65.81 | 15.86 | 4.60 | 6.5 |
| KALBAR | | IV | 9.95 | 77.51 | 0.15 | 7.368 | 76.97 | 15.78 | 3.80 | 6.16 |
| KALBAR | 2012 | I | 9.11 | 65.88 | 0.14 | 10.730 | 64.86 | 15.97 | 4.00 | 5.69 |

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|--------|------|-----|------|-------|------|--------|-------|-------|------|------|
| KALBAR | | II | 8.5 | 67.28 | 0.17 | 9.245 | 69.91 | 16.01 | 4.50 | 6.08 |
| KALBAR | | III | 8.69 | 69.64 | 0.17 | 10.004 | 70.51 | 16.03 | 4.30 | 6.2 |
| KALBAR | | IV | 9.01 | 86.80 | 0.17 | 11.010 | 71.33 | 15.94 | 4.30 | 5.39 |
| KALBAR | 2013 | I | 10.7 | 75.36 | 0.18 | 12.552 | 58.86 | 16.06 | 4.30 | 4.48 |
| KALBAR | | II | 9.85 | 74.08 | 0.26 | 10.582 | 66.29 | 16.12 | 5.90 | 6.73 |
| KALBAR | | III | 9.76 | 76.90 | 0.3 | 11.135 | 68.93 | 16.13 | 5.90 | 6.7 |
| KALBAR | | IV | 9.93 | 87.20 | 0.35 | 12.212 | 70.12 | 16.08 | 8.40 | 6.37 |
| KALBAR | 2014 | I | 9.81 | 80.90 | 0.45 | 13.844 | 65.79 | 16.15 | 7.30 | 5.88 |
| KALBAR | | II | 9.09 | 73.27 | 0.53 | 11.339 | 70.02 | 16.27 | 6.70 | 5.54 |
| KALBAR | | III | 9.06 | 72.79 | 0.62 | 11.258 | 72.98 | 16.32 | 4.50 | 4.54 |
| KALBAR | | IV | 8.95 | 87.09 | 0.48 | 13.026 | 71.77 | 16.23 | 8.40 | 4.28 |
| KALBAR | 2015 | I | 8.91 | 77.06 | 0.57 | 13.536 | 69.54 | 16.35 | 6.40 | 6.33 |
| KALBAR | | II | 8.51 | 70.24 | 0.67 | 11.225 | 75.89 | 16.45 | 7.30 | 4.06 |
| KALBAR | | III | 8.66 | 67.22 | 0.79 | 11.166 | 75.65 | 16.52 | 6.80 | 4.55 |
| KALBAR | | IV | 8.81 | 82.70 | 0.56 | 13.543 | 73.20 | 16.38 | 3.40 | 4.35 |
| KALBAR | 2016 | I | 8.29 | 74.81 | 0.61 | 14.058 | 73.66 | 16.46 | 4.50 | 6.64 |
| KALBAR | | II | 8.09 | 73.95 | 0.88 | 12.602 | 76.28 | 16.49 | 3.50 | 4.28 |
| KALBAR | | III | 8.13 | 79.35 | 1.02 | 13.573 | 75.78 | 16.45 | 3.10 | 6.25 |
| KALBAR | | IV | 8.21 | 86.69 | 0.7 | 14.253 | 71.80 | 16.46 | 3.00 | 3.77 |
| KALBAR | 2017 | I | 9.28 | 76.32 | 0.96 | 14.951 | 72.83 | 16.51 | 3.61 | 4.94 |
| KALBAR | | II | 8.64 | 70.32 | 1.15 | 13.379 | 72.32 | 16.60 | 4.40 | 4.79 |
| KALBAR | | III | 8.38 | 68.06 | 1.24 | 13.192 | 72.83 | 16.66 | 3.70 | 5.13 |
| KALBAR | | IV | 8.24 | 77.59 | 1.16 | 14.077 | 71.84 | 16.62 | 3.60 | 5.8 |
| KALBAR | 2018 | I | 7.26 | 80.76 | 1.28 | 14.568 | 74.32 | 16.64 | 3.40 | 5.09 |
| KALBAR | | II | 7.15 | 76.96 | 1.41 | 14.150 | 74.75 | 16.71 | 3.12 | 5.18 |
| KALBAR | | III | 7.16 | 77.11 | 1.42 | 14.196 | 74.50 | 16.75 | 2.91 | 4.97 |
| KALBAR | | IV | 7.22 | 82.46 | 1.74 | 15.826 | 72.63 | 16.68 | 3.85 | 5.07 |
| KALSEL | 2009 | IV | 7.6 | 67.96 | 1.21 | 11.485 | 65.87 | 15.22 | 2.41 | 4.52 |
| KALSEL | 2010 | I | 9.92 | 61.43 | 1.18 | 11.567 | 50.75 | 15.38 | 3.40 | 5.63 |
| KALSEL | | II | 9.64 | 66.09 | 1.02 | 10.745 | 60.01 | 15.38 | 5.00 | 5.34 |
| KALSEL | | III | 9.4 | 66.32 | 1.06 | 11.364 | 64.20 | 15.42 | 5.80 | 5.12 |

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|--------|------|-----|------|--------|------|--------|-------|-------|------|------|
| KALSEL | | IV | 8.04 | 76.14 | 1.17 | 12.694 | 72.16 | 15.33 | 7.00 | 6.3 |
| KALSEL | 2011 | I | 9.4 | 67.48 | 1.06 | 12.643 | 64.82 | 15.51 | 6.70 | 6.92 |
| KALSEL | | II | 7.35 | 68.82 | 1.07 | 10.795 | 69.33 | 15.56 | 5.50 | 5.95 |
| KALSEL | | III | 7.39 | 63.26 | 1.05 | 10.071 | 72.07 | 15.69 | 4.60 | 4.91 |
| KALSEL | | IV | 6.67 | 63.30 | 0.96 | 10.534 | 74.68 | 15.68 | 3.80 | 6.93 |
| KALSEL | 2012 | I | 7.16 | 50.16 | 1.08 | 9.705 | 70.90 | 15.99 | 4.00 | 6.41 |
| KALSEL | | II | 6.78 | 50.12 | 1.67 | 7.865 | 76.06 | 16.06 | 4.50 | 5.93 |
| KALSEL | | III | 6.26 | 47.68 | 1.57 | 7.874 | 80.41 | 16.16 | 4.30 | 4.71 |
| KALSEL | | IV | 5.15 | 55.77 | 1.83 | 8.825 | 79.40 | 16.06 | 4.30 | 6.04 |
| KALSEL | 2013 | I | 5.47 | 54.41 | 1.74 | 9.386 | 73.75 | 16.16 | 4.30 | 5.57 |
| KALSEL | | II | 5.01 | 55.32 | 1.54 | 8.377 | 77.69 | 16.24 | 5.90 | 5.05 |
| KALSEL | | III | 5.26 | 62.06 | 1.92 | 9.175 | 74.51 | 16.21 | 5.90 | 4.77 |
| KALSEL | | IV | 5.65 | 85.38 | 1.8 | 12.144 | 76.00 | 16.06 | 8.40 | 5.4 |
| KALSEL | 2014 | I | 6.74 | 79.71 | 1.98 | 12.358 | 60.56 | 16.15 | 7.30 | 5.28 |
| KALSEL | | II | 6.57 | 67.12 | 2.76 | 10.115 | 66.08 | 16.33 | 6.70 | 5.52 |
| KALSEL | | III | 6.66 | 66.89 | 3.36 | 10.506 | 68.39 | 16.36 | 4.50 | 4.64 |
| KALSEL | | IV | 6.72 | 91.44 | 4.21 | 13.787 | 75.15 | 16.20 | 8.40 | 4.03 |
| KALSEL | 2015 | I | 6.87 | 80.31 | 4.66 | 13.995 | 68.36 | 16.26 | 6.40 | 3.97 |
| KALSEL | | II | 6.34 | 65.70 | 5.2 | 11.075 | 76.64 | 16.43 | 7.30 | 3.32 |
| KALSEL | | III | 6.19 | 65.06 | 5.78 | 11.315 | 78.85 | 16.45 | 6.80 | 3.92 |
| KALSEL | | IV | 6.39 | 100.55 | 4.33 | 14.823 | 79.62 | 16.21 | 3.40 | 4.14 |
| KALSEL | 2016 | I | 7.2 | 77.76 | 3.81 | 12.856 | 69.64 | 16.34 | 4.50 | 4.69 |
| KALSEL | | II | 6.92 | 74.20 | 3.7 | 12.161 | 78.00 | 16.46 | 3.50 | 4.51 |
| KALSEL | | III | 6.74 | 82.32 | 4.23 | 13.998 | 79.76 | 16.35 | 3.10 | 3.13 |
| KALSEL | | IV | 7.78 | 106.53 | 4.23 | 14.751 | 79.91 | 16.29 | 3.00 | 5.28 |
| KALSEL | 2017 | I | 6.71 | 81.80 | 4.54 | 14.074 | 84.54 | 16.37 | 3.61 | 5.31 |
| KALSEL | | II | 6.61 | 81.12 | 6.73 | 12.944 | 90.95 | 16.39 | 4.40 | 5.02 |
| KALSEL | | III | 6.55 | 74.74 | 6.34 | 12.656 | 86.34 | 16.47 | 3.70 | 6.37 |
| KALSEL | | IV | 6.78 | 103.89 | 5.65 | 15.095 | 82.74 | 16.29 | 3.60 | 4.46 |
| KALSEL | 2018 | I | 5.7 | 77.72 | 5.6 | 14.405 | 81.24 | 16.44 | 3.40 | 5.06 |
| KALSEL | | II | 6.01 | 81.71 | 5.26 | 12.377 | 83.06 | 16.44 | 3.12 | 4.61 |

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|---------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| KALSEL | | III | 6 | 81.73 | 4.65 | 12.447 | 88.92 | 16.44 | 2.42 | 5.14 |
| KALSEL | | IV | 6.06 | 89.73 | 4.09 | 13.438 | 87.82 | 16.39 | 2.62 | 5.78 |
| KALTENG | 2009 | IV | 9.98 | 85.13 | 1.82 | 14.155 | 68.47 | 14.54 | 2.41 | 5.54 |
| KALTENG | 2010 | I | 12.63 | 56.70 | 1.24 | 10.735 | 50.88 | 14.94 | 3.40 | 6.33 |
| KALTENG | | II | 12.55 | 55.08 | 1.13 | 9.527 | 55.38 | 15.02 | 5.00 | 6.19 |
| KALTENG | | III | 12.87 | 57.66 | 1.48 | 9.236 | 62.20 | 15.04 | 5.80 | 6.66 |
| KALTENG | | IV | 11.65 | 88.72 | 1.18 | 14.312 | 64.24 | 14.69 | 7.00 | 6.69 |
| KALTENG | 2011 | I | 8.84 | 57.23 | 1.09 | 10.559 | 54.07 | 15.09 | 6.70 | 6.02 |
| KALTENG | | II | 8.75 | 56.35 | 1.06 | 9.301 | 55.53 | 15.17 | 5.50 | 6.55 |
| KALTENG | | III | 8.71 | 58.13 | 0.83 | 9.746 | 58.83 | 15.19 | 4.60 | 7.37 |
| KALTENG | | IV | 8.79 | 68.74 | 0.81 | 12.167 | 63.31 | 15.05 | 3.80 | 7 |
| KALTENG | 2012 | I | 7.55 | 48.29 | 0.82 | 9.541 | 72.52 | 15.39 | 4.00 | 6.13 |
| KALTENG | | II | 7.24 | 49.84 | 0.88 | 8.820 | 70.56 | 15.41 | 4.50 | 6.75 |
| KALTENG | | III | 7.23 | 51.32 | 0.89 | 9.089 | 71.85 | 15.44 | 4.30 | 7.13 |
| KALTENG | | IV | 7.67 | 71.88 | 0.84 | 13.480 | 69.83 | 15.19 | 4.30 | 6.62 |
| KALTENG | 2013 | I | 7.84 | 52.62 | 0.9 | 11.554 | 54.58 | 15.46 | 4.30 | 6.37 |
| KALTENG | | II | 7.69 | 52.72 | 0.87 | 10.439 | 60.26 | 15.48 | 5.90 | 7.39 |
| KALTENG | | III | 7.81 | 53.19 | 0.93 | 10.844 | 61.46 | 15.51 | 5.90 | 7.11 |
| KALTENG | | IV | 8.23 | 77.45 | 0.81 | 15.595 | 64.63 | 15.20 | 8.40 | 8.61 |
| KALTENG | 2014 | I | 8.61 | 57.45 | 0.86 | 13.048 | 61.51 | 15.48 | 7.30 | 5.55 |
| KALTENG | | II | 8.29 | 51.64 | 0.8 | 10.754 | 60.67 | 15.61 | 6.70 | 5.79 |
| KALTENG | | III | 8.44 | 52.18 | 0.85 | 11.251 | 59.35 | 15.66 | 4.50 | 5.54 |
| KALTENG | | IV | 8.74 | 79.82 | 0.82 | 17.543 | 61.07 | 15.34 | 8.40 | 5.25 |
| KALTENG | 2015 | I | 8.96 | 61.56 | 0.78 | 14.831 | 51.21 | 15.59 | 6.40 | 7.6 |
| KALTENG | | II | 8.8 | 58.58 | 0.81 | 13.551 | 55.41 | 15.69 | 7.30 | 7.1 |
| KALTENG | | III | 8.83 | 62.22 | 0.79 | 14.320 | 59.91 | 15.68 | 6.80 | 6.9 |
| KALTENG | | IV | 8.56 | 106.34 | 0.47 | 20.636 | 59.52 | 15.35 | 3.40 | 6.6 |
| KALTENG | 2016 | I | 9.05 | 71.82 | 0.43 | 16.541 | 50.60 | 15.66 | 4.50 | 5.2 |
| KALTENG | | II | 8.95 | 74.14 | 0.51 | 16.007 | 62.06 | 15.69 | 3.50 | 5.7 |
| KALTENG | | III | 9.23 | 85.45 | 0.5 | 17.946 | 61.63 | 15.61 | 3.10 | 6 |
| KALTENG | | IV | 9.41 | 99.63 | 0.41 | 18.921 | 64.06 | 15.58 | 3.00 | 8.6 |

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|---------|------|-----|------|--------|-------|--------|--------|-------|------|-------|
| KALTENG | 2017 | I | 8.79 | 72.96 | 0.52 | 16.913 | 65.76 | 15.78 | 3.61 | 9.49 |
| KALTENG | | II | 8.38 | 67.85 | 0.5 | 15.241 | 68.87 | 15.87 | 4.40 | 9.49 |
| KALTENG | | III | 8.48 | 69.59 | 0.52 | 15.807 | 68.73 | 15.88 | 3.70 | 6.13 |
| KALTENG | | IV | 8.63 | 96.71 | 0.47 | 22.344 | 70.94 | 15.64 | 3.60 | 5.34 |
| KALTENG | 2018 | I | 8.63 | 77.62 | 0.49 | 19.476 | 65.05 | 15.85 | 3.40 | 4.62 |
| KALTENG | | II | 8.41 | 73.97 | 0.55 | 17.300 | 68.91 | 15.90 | 3.12 | 5.66 |
| KALTENG | | III | 8.59 | 82.34 | 0.46 | 19.011 | 68.50 | 15.85 | 3.72 | 6.4 |
| KALTENG | | IV | 8.42 | 85.30 | 0.32 | 19.154 | 71.15 | 15.88 | 4.52 | 6.12 |
| KALTIM | 2009 | IV | 6.37 | 69.11 | 1.37 | 14.109 | 63.69 | 16.40 | 2.41 | 5.85 |
| KALTIM | 2010 | I | 6.38 | 56.73 | 4.04 | 12.310 | 75.47 | 16.63 | 3.40 | 6.79 |
| KALTIM | | II | 6.88 | 61.02 | 3.02 | 11.762 | 69.93 | 16.64 | 5.00 | 6.89 |
| KALTIM | | III | 6.95 | 62.22 | 3.1 | 12.513 | 71.24 | 16.68 | 5.80 | 3.86 |
| KALTIM | | IV | 8.76 | 81.69 | 3.3 | 16.046 | 55.29 | 16.53 | 7.00 | 2.81 |
| KALTIM | 2011 | I | 7.87 | 67.49 | 3.48 | 12.245 | 71.29 | 16.68 | 6.70 | 2.91 |
| KALTIM | | II | 8.37 | 59.79 | 3.4 | 12.134 | 70.44 | 16.82 | 5.50 | 3.28 |
| KALTIM | | III | 7.95 | 57.14 | 3.85 | 11.282 | 77.13 | 16.91 | 4.60 | 4.34 |
| KALTIM | | IV | 8.18 | 59.95 | 2.9 | 12.875 | 63.86 | 16.95 | 3.80 | 5.16 |
| KALTIM | 2012 | I | 5.7 | 45.11 | 4.13 | 10.370 | 82.31 | 17.21 | 4.00 | 6.4 |
| KALTIM | | II | 6.22 | 44.68 | 3.83 | 9.382 | 80.64 | 17.22 | 4.50 | 5.43 |
| KALTIM | | III | 6.2 | 45.07 | 2.74 | 9.297 | 78.33 | 17.35 | 4.30 | 2.51 |
| KALTIM | | IV | 6.65 | 56.78 | 7.45 | 18.848 | 68.19 | 17.19 | 4.30 | 2.02 |
| KALTIM | 2013 | I | 6.21 | 59.11 | 4.51 | 11.912 | 68.18 | 17.25 | 4.30 | 1.13 |
| KALTIM | | II | 5.77 | 57.61 | 5.34 | 10.440 | 62.95 | 17.37 | 5.90 | 1.45 |
| KALTIM | | III | 5.41 | 62.61 | 7.7 | 10.473 | 76.99 | 17.34 | 5.90 | 2.08 |
| KALTIM | | IV | 6.77 | 90.77 | 6.74 | 13.910 | 71.30 | 17.13 | 8.40 | 1.69 |
| KALTIM | 2014 | I | 3.2 | 103.17 | 11.78 | 16.066 | 109.42 | 16.95 | 7.30 | 0.66 |
| KALTIM | | II | 3.72 | 73.93 | 13.09 | 10.057 | 128.34 | 17.16 | 6.70 | 0.83 |
| KALTIM | | III | 4.8 | 68.67 | 10.44 | 10.731 | 89.10 | 17.21 | 4.50 | 2.76 |
| KALTIM | | IV | 4.95 | 78.54 | 10.36 | 12.025 | 80.39 | 17.20 | 8.40 | 3.83 |
| KALTIM | 2015 | I | 6.48 | 77.64 | 11.44 | 13.506 | 83.55 | 17.13 | 6.40 | -0.21 |
| KALTIM | | II | 5.92 | 61.32 | 8.69 | 11.057 | 88.21 | 17.27 | 7.30 | -0.39 |

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|--------|------|-----|-------|--------|-------|--------|-------|-------|------|-------|
| KALTIM | | III | 5.84 | 60.99 | 9.87 | 10.022 | 91.12 | 17.28 | 6.80 | -2.25 |
| KALTIM | | IV | 6.03 | 103.54 | 10.35 | 15.341 | 85.30 | 16.95 | 3.40 | -0.55 |
| KALTIM | 2016 | I | 6.07 | 81.05 | 9.7 | 16.040 | 80.74 | 16.96 | 4.50 | -0.7 |
| KALTIM | | II | 6.57 | 80.30 | 10.71 | 15.154 | 82.00 | 16.99 | 3.50 | -0.9 |
| KALTIM | | III | 6.83 | 89.02 | 11.02 | 16.708 | 84.53 | 16.90 | 3.10 | 0.2 |
| KALTIM | | IV | 4.95 | 78.54 | 10.36 | 18.848 | 80.39 | 16.93 | 3.00 | -0.3 |
| KALTIM | 2017 | I | 7.71 | 81.25 | 7.94 | 18.455 | 73.70 | 17.01 | 3.61 | 3.9 |
| KALTIM | | II | 7.26 | 77.81 | 7.48 | 17.262 | 79.68 | 17.01 | 4.40 | 3.61 |
| KALTIM | | III | 7.21 | 74.35 | 7.43 | 17.405 | 76.14 | 17.05 | 3.70 | 3.54 |
| KALTIM | | IV | 6.03 | 103.54 | 10.35 | 19.874 | 85.30 | 16.93 | 3.60 | 1.61 |
| KALTIM | 2018 | I | 4.14 | 75.76 | 7.66 | 17.404 | 89.66 | 16.99 | 3.40 | 1.77 |
| KALTIM | | II | 5.33 | 72.79 | 7.88 | 15.819 | 87.83 | 17.01 | 3.12 | 1.84 |
| KALTIM | | III | 5.33 | 72.79 | 7.88 | 15.819 | 87.83 | 17.01 | 3.61 | 1.83 |
| KALTIM | | IV | 5.66 | 71.26 | 7.97 | 15.562 | 85.58 | 17.06 | 3.24 | 5.14 |
| KEPRI | 2009 | IV | 6.09 | 88.24 | 1.38 | 11.461 | 73.83 | 16.14 | 2.41 | 3.91 |
| KEPRI | 2010 | I | 9.47 | 59.78 | 1.8 | 9.226 | 78.08 | 16.43 | 3.40 | 2.9 |
| KEPRI | | II | 9.44 | 64.41 | 2.05 | 8.896 | 79.98 | 16.36 | 5.00 | 3.77 |
| KEPRI | | III | 14.34 | 66.83 | 2.4 | 8.743 | 81.67 | 16.43 | 5.80 | 4.76 |
| KEPRI | | IV | 9.43 | 75.42 | 2.45 | 8.287 | 70.09 | 16.65 | 7.00 | 5.22 |
| KEPRI | 2011 | I | 8.57 | 61.03 | 2.74 | 10.025 | 90.30 | 16.50 | 6.70 | 4.04 |
| KEPRI | | II | 7.83 | 55.90 | 2.96 | 8.328 | 70.94 | 16.61 | 5.50 | 3.44 |
| KEPRI | | III | 7.61 | 56.18 | 2.85 | 8.269 | 76.24 | 16.65 | 4.60 | 3.93 |
| KEPRI | | IV | 7.23 | 65.74 | 2.57 | 12.441 | 75.15 | 16.37 | 3.80 | 4.63 |
| KEPRI | 2012 | I | 6.68 | 54.15 | 2.66 | 8.382 | 79.56 | 16.81 | 4.00 | 5.03 |
| KEPRI | | II | 6.31 | 56.27 | 2.67 | 8.805 | 76.02 | 16.81 | 4.50 | 3.96 |
| KEPRI | | III | 6.54 | 52.29 | 2.96 | 7.328 | 75.29 | 16.95 | 4.30 | 4.06 |
| KEPRI | | IV | 6.72 | 66.49 | 2.95 | 9.136 | 75.07 | 16.80 | 4.30 | 2.37 |
| KEPRI | 2013 | I | 7.85 | 63.26 | 3.1 | 9.337 | 64.12 | 16.85 | 4.30 | 1.82 |
| KEPRI | | II | 7.35 | 60.54 | 3.12 | 9.308 | 69.08 | 16.90 | 5.90 | 2.62 |
| KEPRI | | III | 7.33 | 67.20 | 3.11 | 9.075 | 72.09 | 16.88 | 5.90 | 2.2 |
| KEPRI | | IV | 7.49 | 87.60 | 2.81 | 10.673 | 69.12 | 16.78 | 8.40 | 3.77 |

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|---------|------|-----|------|--------|------|--------|-------|-------|------|-------|
| KEPRI | 2014 | I | 9.07 | 102.18 | 2.9 | 12.830 | 60.15 | 16.69 | 7.30 | 3.93 |
| KEPRI | | II | 8.18 | 71.01 | 2.92 | 9.165 | 64.37 | 16.95 | 6.70 | 2.9 |
| KEPRI | | III | 7.89 | 67.84 | 2.96 | 9.163 | 69.21 | 16.99 | 4.50 | 2.67 |
| KEPRI | | IV | 7.54 | 77.72 | 2.79 | 10.445 | 70.59 | 16.94 | 8.40 | 1.05 |
| KEPRI | 2015 | I | 6.38 | 65.85 | 3.23 | 9.521 | 77.52 | 17.08 | 6.40 | -0.01 |
| KEPRI | | II | 5.89 | 62.21 | 3.77 | 8.069 | 81.02 | 17.15 | 7.30 | -2.13 |
| KEPRI | | III | 5.7 | 69.28 | 4.12 | 8.518 | 85.03 | 17.11 | 6.80 | -1.38 |
| KEPRI | | IV | 6.08 | 112.61 | 4.12 | 12.127 | 83.86 | 16.80 | 3.40 | 4.45 |
| KEPRI | 2016 | I | 7.21 | 92.66 | 4.57 | 11.342 | 80.58 | 16.90 | 4.50 | 2.74 |
| KEPRI | | II | 7.11 | 94.12 | 4.68 | 10.966 | 78.84 | 16.90 | 3.50 | 2.75 |
| KEPRI | | III | 7.17 | 94.61 | 4.42 | 11.393 | 76.02 | 16.92 | 3.10 | 1.26 |
| KEPRI | | IV | 7.15 | 125.19 | 4.16 | 12.603 | 75.44 | 16.87 | 3.00 | 2.22 |
| KEPRI | 2017 | I | 6.48 | 82.90 | 4.4 | 10.311 | 76.39 | 17.01 | 3.61 | 2.84 |
| KEPRI | | II | 6.08 | 75.48 | 4.49 | 10.134 | 74.93 | 17.07 | 4.40 | 2.49 |
| KEPRI | | III | 5.78 | 68.68 | 4.42 | 9.965 | 75.94 | 17.11 | 3.70 | 2.91 |
| KEPRI | | IV | 5.48 | 94.10 | 3.92 | 11.245 | 78.10 | 17.05 | 3.60 | 2.58 |
| KEPRI | 2018 | I | 5.66 | 87.74 | 3.94 | 10.979 | 79.38 | 17.01 | 3.40 | 2.87 |
| KEPRI | | II | 6.11 | 96.77 | 3.43 | 10.935 | 78.18 | 17.05 | 3.12 | 2.38 |
| KEPRI | | III | 6.02 | 91.08 | 3.39 | 11.556 | 78.56 | 17.02 | 3.18 | 3.74 |
| KEPRI | | IV | | | | | | | 3.47 | 5.48 |
| LAMPUNG | 2009 | IV | 6.69 | 99.36 | 1.47 | 10.235 | 76.32 | 14.64 | 2.41 | 5.02 |
| LAMPUNG | 2010 | I | 9.1 | 65.03 | 1.38 | 7.839 | 64.82 | 14.86 | 3.40 | 5.68 |
| LAMPUNG | | II | 9.45 | 65.62 | 1.37 | 7.692 | 59.55 | 14.92 | 5.00 | 4.25 |
| LAMPUNG | | III | 9.49 | 70.76 | 1.23 | 7.769 | 62.19 | 14.95 | 5.80 | 6.23 |
| LAMPUNG | | IV | 9.59 | 89.46 | 1.2 | 8.663 | 68.57 | 14.95 | 7.00 | 6.95 |
| LAMPUNG | 2011 | I | 7.85 | 57.86 | 1.07 | 10.096 | 60.17 | 15.10 | 6.70 | 6.85 |
| LAMPUNG | | II | 6.9 | 53.26 | 1.15 | 7.833 | 64.96 | 15.22 | 5.50 | 6.83 |
| LAMPUNG | | III | 6.57 | 59.63 | 0.95 | 8.220 | 70.29 | 15.21 | 4.60 | 5.85 |
| LAMPUNG | | IV | 6.97 | 80.23 | 0.87 | 9.018 | 75.29 | 15.25 | 3.80 | 6.02 |
| LAMPUNG | 2012 | I | 7.31 | 49.14 | 0.81 | 8.151 | 64.38 | 15.41 | 4.00 | 5.71 |
| LAMPUNG | | II | 6.54 | 47.28 | 0.77 | 7.022 | 67.30 | 15.47 | 4.50 | 6.38 |

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|---------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| LAMPUNG | | III | 6.57 | 49.20 | 0.74 | 7.477 | 69.18 | 15.48 | 4.30 | 6.56 |
| LAMPUNG | | IV | 6.51 | 91.73 | 0.74 | 9.527 | 75.05 | 15.37 | 4.30 | 7.57 |
| LAMPUNG | 2013 | I | 6.6 | 57.44 | 0.67 | 8.856 | 63.56 | 15.52 | 4.30 | 5.64 |
| LAMPUNG | | II | 5.92 | 57.32 | 0.69 | 7.543 | 77.45 | 15.59 | 5.90 | 5.41 |
| LAMPUNG | | III | 6.35 | 64.77 | 0.74 | 8.522 | 73.43 | 15.54 | 5.90 | 6.16 |
| LAMPUNG | | IV | 5.58 | 110.56 | 0.76 | 10.304 | 80.86 | 15.34 | 8.40 | 6.33 |
| LAMPUNG | 2014 | I | 6.72 | 77.96 | 0.81 | 10.017 | 65.10 | 15.43 | 7.30 | 5.28 |
| LAMPUNG | | II | 6.44 | 64.94 | 0.96 | 8.062 | 6.44 | 15.62 | 6.70 | 5.66 |
| LAMPUNG | | III | 7.34 | 71.69 | 0.89 | 8.834 | 37.00 | 15.61 | 4.50 | 5.57 |
| LAMPUNG | | IV | 7.61 | 112.96 | 1.06 | 11.467 | 69.33 | 15.43 | 8.40 | 4.69 |
| LAMPUNG | 2015 | I | 8.07 | 65.09 | 0.99 | 9.155 | 63.03 | 15.73 | 6.40 | 4.91 |
| LAMPUNG | | II | 7.5 | 54.64 | 1.21 | 7.589 | 61.45 | 15.90 | 7.30 | 5.06 |
| LAMPUNG | | III | 7.16 | 54.68 | 1.22 | 8.137 | 62.91 | 15.91 | 6.80 | 5.22 |
| LAMPUNG | | IV | 6.78 | 87.66 | 1.12 | 11.367 | 68.73 | 15.58 | 3.40 | 5.33 |
| LAMPUNG | 2016 | I | 6.18 | 56.02 | 1.22 | 9.223 | 69.94 | 15.85 | 4.50 | 5.06 |
| LAMPUNG | | II | 5.74 | 68.55 | 1.63 | 9.833 | 72.51 | 15.74 | 3.50 | 5.21 |
| LAMPUNG | | III | 5.57 | 62.30 | 1.66 | 9.902 | 72.75 | 15.79 | 3.10 | 5.26 |
| LAMPUNG | | IV | 6.07 | 101.06 | 1.25 | 13.548 | 74.08 | 15.50 | 3.00 | 5.01 |
| LAMPUNG | 2017 | I | 6.59 | 63.69 | 1.25 | 11.043 | 65.79 | 15.77 | 3.61 | 5.13 |
| LAMPUNG | | II | 6.02 | 59.26 | 1.47 | 9.750 | 73.97 | 15.84 | 4.40 | 5.03 |
| LAMPUNG | | III | 5.56 | 54.47 | 1.37 | 9.135 | 74.34 | 15.96 | 3.70 | 5.21 |
| LAMPUNG | | IV | 5.26 | 88.22 | 0.99 | 13.536 | 74.75 | 15.60 | 3.60 | 5.31 |
| LAMPUNG | 2018 | I | 6.59 | 63.69 | 1.25 | 10.287 | 65.79 | 15.93 | 3.40 | 5.16 |
| LAMPUNG | | II | 5.04 | 57.86 | 0.9 | 9.056 | 79.72 | 15.97 | 3.12 | 5.35 |
| LAMPUNG | | III | 5.33 | 68.69 | 0.91 | 10.603 | 77.88 | 15.87 | 2.87 | 5.19 |
| LAMPUNG | | IV | | | | | | | 2.73 | 5.38 |
| MALUKU | 2009 | IV | 10.21 | 94.56 | 3 | 10.047 | 73.88 | 14.52 | 2.41 | 5.16 |
| MALUKU | 2010 | I | 9.39 | 77.82 | 3.31 | 3.671 | 79.17 | 14.69 | 3.40 | 5.77 |
| MALUKU | | II | 9.29 | 80.70 | 4.23 | 8.570 | 79.81 | 14.71 | 5.00 | 7.26 |
| MALUKU | | III | 13.77 | 80.68 | 4.44 | 3.324 | 77.80 | 14.77 | 5.80 | 7.08 |
| MALUKU | | IV | 11.4 | 102.68 | 3.62 | 9.029 | 75.30 | 14.73 | 7.00 | 5.77 |

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|--------|------|-----|-------|-------|------|--------|--------|-------|------|-------|
| MALUKU | 2011 | I | 13.32 | 74.23 | 3.5 | 9.436 | 63.45 | 14.89 | 6.70 | 7.4 |
| MALUKU | | II | 12.82 | 77.48 | 2.38 | 9.036 | 69.40 | 14.91 | 5.50 | 3.74 |
| MALUKU | | III | 12.75 | 78.29 | 2.24 | 9.456 | 66.57 | 14.97 | 4.60 | 5.16 |
| MALUKU | | IV | 12.58 | 82.14 | 2.48 | 8.965 | 70.14 | 15.09 | 3.80 | 7.76 |
| MALUKU | 2012 | I | 7.84 | 55.48 | 2.94 | 7.457 | 65.23 | 15.39 | 4.00 | 7.64 |
| MALUKU | | II | 7.59 | 55.86 | 3.7 | 7.243 | 71.45 | 15.43 | 4.50 | 11.72 |
| MALUKU | | III | 7.58 | 55.88 | 3.76 | 7.712 | 71.52 | 15.46 | 4.30 | 7.87 |
| MALUKU | | IV | 7.85 | 78.61 | 2.67 | 9.287 | 73.90 | 15.34 | 4.30 | 4.32 |
| MALUKU | 2013 | I | 9.68 | 58.85 | 2.55 | 9.800 | 58.31 | 15.42 | 4.30 | 3.16 |
| MALUKU | | II | 9.73 | 60.59 | 3.09 | 9.776 | 66.24 | 15.45 | 5.90 | 2.03 |
| MALUKU | | III | 9.75 | 62.45 | 2.99 | 10.306 | 68.66 | 15.47 | 5.90 | 5.43 |
| MALUKU | | IV | 9.62 | 90.86 | 2.46 | 11.730 | 72.78 | 15.33 | 8.40 | 9.81 |
| MALUKU | 2014 | I | 11.23 | 68.59 | 2.45 | 12.297 | 665.59 | 15.43 | 7.30 | 9.77 |
| MALUKU | | II | 10.92 | 65.21 | 2.46 | 10.774 | 66.15 | 15.50 | 6.70 | 7.99 |
| MALUKU | | III | 10.95 | 64.56 | 2.42 | 11.110 | 67.81 | 15.55 | 4.50 | 7.33 |
| MALUKU | | IV | 10.78 | 92.26 | 2.38 | 11.008 | 99.56 | 15.33 | 8.40 | 3.49 |
| MALUKU | 2015 | I | 9.84 | 61.29 | 2.35 | 9.333 | 71.07 | 15.60 | 6.40 | 4.06 |
| MALUKU | | II | 8.97 | 60.31 | 2.28 | 9.338 | 72.09 | 15.65 | 7.30 | 5.52 |
| MALUKU | | III | 8.9 | 58.19 | 2.34 | 9.391 | 73.81 | 15.70 | 6.80 | 5.6 |
| MALUKU | | IV | 9.14 | 85.28 | 2.37 | 12.728 | 70.98 | 15.45 | 3.40 | 6.49 |
| MALUKU | 2016 | I | 9.26 | 60.50 | 2.16 | 10.824 | 66.76 | 15.68 | 4.50 | 5.57 |
| MALUKU | | II | 8.11 | 59.65 | 2.21 | 10.178 | 74.52 | 15.69 | 3.50 | 6.04 |
| MALUKU | | III | 8.21 | 65.76 | 2.07 | 11.662 | 73.46 | 15.62 | 3.10 | 5.52 |
| MALUKU | | IV | 8.31 | 86.87 | 1.95 | 12.954 | 71.84 | 15.55 | 3.00 | 5.91 |
| MALUKU | 2017 | I | 9.68 | 65.53 | 1.98 | 13.033 | 63.92 | 15.64 | 3.61 | 6.62 |
| MALUKU | | II | 8.81 | 59.93 | 1.95 | 11.950 | 70.20 | 15.76 | 4.40 | 5.75 |
| MALUKU | | III | 8.49 | 62.04 | 1.91 | 12.627 | 69.76 | 15.76 | 3.70 | 5.83 |
| MALUKU | | IV | 8.32 | 88.26 | 1.58 | 14.022 | 71.69 | 15.67 | 3.60 | 5.11 |
| MALUKU | 2018 | I | 8.17 | 68.66 | 1.69 | 13.136 | 67.32 | 15.80 | 3.40 | 5.39 |
| MALUKU | | II | | | | 12.851 | | 15.87 | 3.12 | 5.53 |
| MALUKU | | III | | | | 14.117 | | 15.82 | 1.51 | 6.38 |

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|--------|------|-----|-------|--------|------|--------|-------|-------|------|-------|
| MALUKU | | IV | | | | | | | 1.62 | 6.41 |
| NTB | 2009 | IV | 10.69 | 115.50 | 4.07 | 13.845 | 75.02 | 14.61 | 2.41 | 7.11 |
| NTB | 2010 | I | 18.68 | 87.47 | 4.24 | 14.362 | 86.79 | 14.76 | 3.40 | 22.8 |
| NTB | | II | 16.29 | 85.24 | 4.1 | 13.718 | 85.57 | 14.83 | 5.00 | 9.34 |
| NTB | | III | 15.86 | 94.66 | 3.8 | 10.064 | 62.93 | 14.79 | 5.80 | 5.98 |
| NTB | | IV | 12.95 | 102.23 | 2.92 | 14.349 | 72.43 | 14.83 | 7.00 | -7.2 |
| NTB | 2011 | I | 12.42 | 88.27 | 2.78 | 13.950 | 61.25 | 14.94 | 6.70 | -1.95 |
| NTB | | II | 12.37 | 89.74 | 2.41 | 13.059 | 62.12 | 15.05 | 5.50 | -5.24 |
| NTB | | III | 12.93 | 87.50 | 2.35 | 9.744 | 63.13 | 15.11 | 4.60 | -1.66 |
| NTB | | IV | 12.85 | 101.45 | 2.17 | 13.780 | 68.81 | 15.06 | 3.80 | -3.92 |
| NTB | 2012 | I | 11.02 | 86.24 | 2.25 | 13.266 | 57.58 | 15.22 | 4.00 | -2.36 |
| NTB | | II | 11.49 | 87.71 | 2.16 | 11.353 | 61.03 | 15.26 | 4.50 | 2.78 |
| NTB | | III | 11.83 | 87.21 | 2.12 | 12.306 | 63.67 | 15.28 | 4.30 | -3.75 |
| NTB | | IV | 12.85 | 101.45 | 2.17 | 13.780 | 68.81 | 15.06 | 4.30 | -0.81 |
| NTB | 2013 | I | 11.54 | 83.68 | 2.08 | 13.856 | 54.54 | 15.36 | 4.30 | 5.56 |
| NTB | | II | 11.11 | 84.28 | 2.01 | 12.761 | 58.46 | 15.34 | 5.90 | 4.02 |
| NTB | | III | 11.12 | 80.38 | 1.96 | 13.360 | 61.09 | 15.39 | 5.90 | 5.92 |
| NTB | | IV | 11.08 | 105.56 | 1.73 | 16.065 | 64.19 | 15.28 | 8.40 | 6.55 |
| NTB | 2014 | I | 9.16 | 88.38 | 1.74 | 13.825 | 62.23 | 15.50 | 7.30 | 5.58 |
| NTB | | II | 8.67 | 77.41 | 1.67 | 11.463 | 63.01 | 15.61 | 6.70 | 2.95 |
| NTB | | III | 8.67 | 84.44 | 1.64 | 12.136 | 66.65 | 15.64 | 4.50 | -3.01 |
| NTB | | IV | 8.6 | 99.78 | 1.46 | 14.848 | 66.00 | 15.57 | 8.40 | 5.06 |
| NTB | 2015 | I | 7.89 | 74.64 | 1.45 | 13.426 | 69.22 | 15.74 | 6.40 | 4.97 |
| NTB | | II | 7.69 | 72.35 | 1.46 | 12.918 | 67.78 | 15.81 | 7.30 | 5.76 |
| NTB | | III | 7.7 | 75.39 | 1.46 | 14.108 | 69.16 | 15.78 | 6.80 | 6.14 |
| NTB | | IV | 7.98 | 100.87 | 1.31 | 17.936 | 67.19 | 15.63 | 3.40 | 5.27 |
| NTB | 2016 | I | 7.78 | 70.12 | 1.36 | 14.294 | 67.74 | 15.91 | 4.50 | 5.68 |
| NTB | | II | 7.48 | 75.07 | 1.3 | 14.879 | 69.54 | 15.90 | 3.50 | 9.67 |
| NTB | | III | 7.57 | 82.97 | 1.29 | 16.597 | 69.89 | 15.84 | 3.10 | 3.47 |
| NTB | | IV | 7.79 | 97.66 | 1.2 | 16.440 | 68.69 | 15.85 | 3.00 | 3.77 |
| NTB | 2017 | I | 7.86 | 69.15 | 1.52 | 14.853 | 71.46 | 16.00 | 3.61 | -3.74 |

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|-----|------|-----|-------|--------|------|--------|-------|-------|------|-------|
| NTB | | II | 7.13 | 65.86 | 1.57 | 12.860 | 75.94 | 16.05 | 4.40 | -1.95 |
| NTB | | III | 6.65 | 65.05 | 1.54 | 12.761 | 77.30 | 16.10 | 3.70 | 4.08 |
| NTB | | IV | 6.31 | 75.07 | 1.35 | 14.363 | 78.10 | 16.00 | 3.60 | 0.58 |
| NTB | 2018 | I | 5.17 | 66.34 | 1.42 | 13.633 | 77.18 | 16.08 | 3.40 | 1.68 |
| NTB | | II | 5.27 | 72.68 | 1.61 | 13.905 | 78.32 | 16.00 | 3.12 | 1.83 |
| NTB | | III | | | | | | | 3.09 | 2.04 |
| NTB | | IV | | | | | | | 3.12 | 3.18 |
| NTT | 2009 | IV | 11.42 | 112.79 | 1.5 | 17.346 | 65.25 | 15.04 | 2.41 | 3.94 |
| NTT | 2010 | I | 16.47 | 97.12 | 2.5 | 10.249 | 70.61 | 15.34 | 3.40 | 4.44 |
| NTT | | II | 14.39 | 98.17 | 1.83 | 11.449 | 57.94 | 15.30 | 5.00 | 5.28 |
| NTT | | III | 14.56 | 103.42 | 1.75 | 16.046 | 71.13 | 15.28 | 5.80 | 5.53 |
| NTT | | IV | 11.68 | 91.77 | 2.49 | 15.000 | 72.10 | 15.32 | 7.00 | 5.22 |
| NTT | 2011 | I | 11.8 | 73.90 | 2.48 | 14.720 | 68.01 | 15.42 | 6.70 | 4.94 |
| NTT | | II | 10.34 | 75.10 | 1.94 | 14.085 | 70.87 | 15.51 | 5.50 | 7.38 |
| NTT | | III | 9.93 | 82.90 | 1.74 | 12.342 | 77.98 | 15.60 | 4.60 | 5.73 |
| NTT | | IV | 9.85 | 92.95 | 1.2 | 13.795 | 71.04 | 15.54 | 3.80 | 4.53 |
| NTT | 2012 | I | 8.67 | 74.42 | 1.27 | 11.921 | 76.55 | 15.77 | 4.00 | 5.45 |
| NTT | | II | 8.31 | 75.28 | 1.26 | 9.998 | 76.52 | 15.84 | 4.50 | 4.87 |
| NTT | | III | 14.56 | 103.42 | 1.75 | 11.383 | 71.13 | 15.83 | 4.30 | 5.87 |
| NTT | | IV | 8.67 | 93.45 | 1.2 | 13.453 | 71.57 | 15.75 | 4.30 | 5.48 |
| NTT | 2013 | I | 8.59 | 73.22 | 1.34 | 12.275 | 73.97 | 15.91 | 4.30 | 5.38 |
| NTT | | II | 8.57 | 73.73 | 1.34 | 11.214 | 64.46 | 15.90 | 5.90 | 5.58 |
| NTT | | III | 9.93 | 82.90 | 1.74 | 12.590 | 77.98 | 15.90 | 5.90 | 5.64 |
| NTT | | IV | 9.35 | 96.36 | 1.3 | 14.486 | 67.13 | 15.80 | 8.40 | 5.62 |
| NTT | 2014 | I | 10.74 | 78.50 | 1.33 | 13.791 | 61.15 | 15.95 | 7.30 | 5.02 |
| NTT | | II | 10.2 | 65.98 | 1.31 | 10.725 | 64.58 | 16.07 | 6.70 | 5.03 |
| NTT | | III | 10.2 | 68.65 | 1.3 | 12.250 | 64.87 | 16.07 | 4.50 | 4.97 |
| NTT | | IV | 10.13 | 87.68 | 1.52 | 14.958 | 69.24 | 15.93 | 8.40 | 5.04 |
| NTT | 2015 | I | 9.58 | 67.91 | 1.85 | 13.380 | 69.23 | 16.13 | 6.40 | 4.6 |
| NTT | | II | 9.15 | 63.02 | 2.65 | 10.304 | 67.47 | 16.27 | 7.30 | 5 |
| NTT | | III | 8.97 | 65.32 | 2.53 | 10.504 | 69.16 | 16.31 | 6.80 | 5.1 |

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|-------|------|-----|-------|--------|------|--------|-------|-------|------|--------|
| NTT | | IV | 9.19 | 90.09 | 2.32 | 15.651 | 69.28 | 16.07 | 3.40 | 5.02 |
| NTT | 2016 | I | 9.54 | 77.95 | 2.4 | 14.852 | 68.31 | 16.21 | 4.50 | 5.06 |
| NTT | | II | 9.19 | 74.11 | 2.7 | 12.539 | 69.97 | 16.28 | 3.50 | 5.29 |
| NTT | | III | 9.35 | 89.97 | 2.63 | 14.863 | 77.94 | 16.16 | 3.10 | 5.29 |
| NTT | | IV | 9.73 | 107.39 | 2.34 | 17.389 | 75.72 | 16.08 | 3.00 | 5.14 |
| NTT | 2017 | I | 10.76 | 86.50 | 2.4 | 14.820 | 77.81 | 16.16 | 3.61 | 3.86 |
| NTT | | II | 9.76 | 71.96 | 3.03 | 13.328 | 75.18 | 16.36 | 4.40 | 5.63 |
| NTT | | III | 9.5 | 86.14 | 3.34 | 15.273 | 77.22 | 16.25 | 3.70 | 0.19 |
| NTT | | IV | 9.51 | 114.01 | 3.22 | 17.434 | 67.37 | 16.16 | 3.60 | 4.91 |
| NTT | 2018 | I | 8.97 | 83.43 | 3.46 | 15.556 | 75.31 | 16.32 | 3.40 | 5.19 |
| NTT | | II | 8.29 | 74.21 | 3.56 | 12.797 | 77.54 | 16.43 | 3.12 | 4.97 |
| NTT | | III | 8.78 | 86.86 | 2.95 | 14.843 | 76.88 | 16.35 | 1.90 | 5 |
| NTT | | IV | 9.11 | 115.28 | 2.5 | 17.286 | 75.95 | 16.23 | 3.07 | 5.32 |
| PAPUA | 2009 | IV | 7.52 | 36.50 | 1.81 | 10.843 | 69.72 | 16.06 | 2.41 | 4.15 |
| PAPUA | 2010 | I | 7.37 | 35.94 | 0.95 | 9.926 | 81.31 | 16.09 | 3.40 | -11.32 |
| PAPUA | | II | 7.45 | 33.63 | 2.26 | 9.173 | 78.71 | 16.26 | 5.00 | -15.89 |
| PAPUA | | III | 7.38 | 38.36 | 1.85 | 10.542 | 79.48 | 16.20 | 5.80 | 3.77 |
| PAPUA | | IV | 7.24 | 43.88 | 0.95 | 11.252 | 70.67 | 16.21 | 7.00 | 14.6 |
| PAPUA | 2011 | I | 7.15 | 36.54 | 1.24 | 9.612 | 76.27 | 16.35 | 6.70 | 7.25 |
| PAPUA | | II | 7.3 | 41.14 | 1.41 | 10.137 | 63.73 | 16.37 | 5.50 | 4.02 |
| PAPUA | | III | 7.49 | 38.38 | 1.39 | 9.546 | 65.17 | 16.52 | 4.60 | -8.97 |
| PAPUA | | IV | 7.52 | 48.01 | 1.09 | 11.014 | 69.44 | 16.43 | 3.80 | -21.1 |
| PAPUA | 2012 | I | 6.75 | 46.72 | 0.89 | 11.208 | 75.74 | 16.48 | 4.00 | -11.19 |
| PAPUA | | II | 6.54 | 46.75 | 1.01 | 9.651 | 68.30 | 16.60 | 4.50 | -3.26 |
| PAPUA | | III | 6.62 | 47.23 | 0.89 | 9.137 | 69.01 | 16.71 | 4.30 | 1.34 |
| PAPUA | | IV | 5.71 | 71.65 | 0.84 | 11.777 | 74.15 | 16.51 | 4.30 | 18.94 |
| PAPUA | 2013 | I | 7.85 | 71.76 | 0.9 | 12.058 | 68.40 | 16.56 | 4.30 | 16.18 |
| PAPUA | | II | 7.91 | 66.69 | 1.16 | 10.160 | 65.50 | 16.71 | 5.90 | 0.25 |
| PAPUA | | III | 7.97 | 65.58 | 1.39 | 9.830 | 68.73 | 16.81 | 5.90 | 18.01 |
| PAPUA | | IV | 7.88 | 84.48 | 1.14 | 12.022 | 72.01 | 16.69 | 8.40 | 23.9 |
| PAPUA | 2014 | I | 8.64 | 84.78 | 1.37 | 13.357 | 70.02 | 16.67 | 7.30 | 6.38 |

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|-----------|------|-----|-------|--------|-------|--------|--------|-------|------|-------|
| PAPUA | | II | 7.79 | 66.97 | 2.75 | 10.396 | 68.86 | 16.91 | 6.70 | 15.13 |
| PAPUA | | III | 7.31 | 58.48 | 3.14 | 9.192 | 76.60 | 17.05 | 4.50 | 7 |
| PAPUA | | IV | 7.59 | 80.12 | 7.33 | 11.425 | 91.38 | 16.82 | 8.40 | -9.82 |
| PAPUA | 2015 | I | 7.17 | 70.14 | 7.46 | 11.766 | 60.44 | 16.89 | 6.40 | 1.6 |
| PAPUA | | II | 7.02 | 60.02 | 8.66 | 9.602 | 88.60 | 17.06 | 7.30 | 13.8 |
| PAPUA | | III | 6.81 | 55.64 | 10.68 | 9.209 | 85.55 | 17.14 | 6.80 | 2.54 |
| PAPUA | | IV | 7.51 | 83.03 | 9.63 | 13.780 | 80.22 | 16.83 | 3.40 | 14.08 |
| PAPUA | 2016 | I | 7.57 | 72.36 | 10.42 | 13.673 | 67.26 | 16.90 | 4.50 | -1.18 |
| PAPUA | | II | 7.07 | 64.32 | 11.18 | 11.372 | 79.81 | 17.02 | 3.50 | -5.91 |
| PAPUA | | III | 6.95 | 65.71 | 11.8 | 11.889 | 79.19 | 17.02 | 3.10 | 20.65 |
| PAPUA | | IV | 7.01 | 86.23 | 15.03 | 13.369 | 106.54 | 16.86 | 3.00 | 21.41 |
| PAPUA | 2017 | I | 6.53 | 77.47 | 19.93 | 12.750 | 107.80 | 16.90 | 3.61 | 3.36 |
| PAPUA | | II | 6.31 | 59.32 | 17.1 | 9.325 | 134.12 | 17.05 | 4.40 | 4.91 |
| PAPUA | | III | 7.14 | 59.73 | 16.59 | 9.638 | 122.71 | 17.02 | 3.70 | 3.4 |
| PAPUA | | IV | 7.16 | 80.12 | 14.72 | 13.112 | 94.35 | 16.83 | 3.60 | 4.78 |
| PAPUA | 2018 | I | 6.85 | 62.95 | 11.9 | 11.622 | 96.96 | 16.97 | 3.40 | 28.93 |
| PAPUA | | II | 6.7 | 65.46 | 12.99 | 12.047 | 96.23 | 16.94 | 4.09 | 24.68 |
| PAPUA | | III | 6.64 | 63.79 | 9.65 | 12.444 | 87.63 | 16.99 | 5.31 | 6.35 |
| PAPUA | | IV | 6.82 | 78.90 | 7.45 | 14.120 | 87.77 | 16.93 | 5.18 | -17.8 |
| SULSEIBAR | 2009 | IV | 10.73 | 114.79 | 2.4 | 16.496 | 57.09 | 15.34 | 2.41 | 6.53 |
| SULSEIBAR | 2010 | I | 8.4 | 85.77 | 2.38 | 16.289 | 58.73 | 15.56 | 3.40 | 7.96 |
| SULSEIBAR | | II | 10.7 | 81.52 | 2.33 | 12.255 | 60.25 | 15.64 | 5.00 | 9.22 |
| SULSEIBAR | | III | 10.44 | 91.57 | 2.07 | 10.686 | 62.04 | 15.63 | 5.80 | 7.48 |
| SULSEIBAR | | IV | 10.31 | 109.98 | 2.02 | 13.806 | 65.81 | 15.62 | 7.00 | 8.93 |
| SULSEIBAR | 2011 | I | 9.07 | 86.35 | 2.64 | 14.353 | 67.22 | 15.77 | 6.70 | 7.38 |
| SULSEIBAR | | II | 8.49 | 87.56 | 2.03 | 10.402 | 70.70 | 15.87 | 5.50 | 8.61 |
| SULSEIBAR | | III | 10.09 | 87.37 | 2.06 | 8.565 | 70.65 | 15.86 | 4.60 | 8.43 |
| SULSEIBAR | | IV | 10 | 102.00 | 2 | 13.919 | 72.00 | 15.75 | 3.80 | 6.16 |
| SULSEIBAR | 2012 | I | 9 | 74.00 | 2 | 11.724 | 67.00 | 16.08 | 4.00 | 7.95 |
| SULSEIBAR | | II | 9 | 79.00 | 2 | 10.313 | 62.00 | 16.07 | 4.50 | 8.12 |
| SULSEIBAR | | III | 9.18 | 78.73 | 2.09 | 11.295 | 63.56 | 16.05 | 4.30 | 8.78 |

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|-----------|------|-----|-------|--------|------|--------|-------|-------|------|-------|
| SULSEIBAR | | IV | 10 | 113.00 | 1 | 14.610 | 72.00 | 15.84 | 4.30 | 8.58 |
| SULSEIBAR | 2013 | I | 10 | 78.00 | 1 | 13.316 | 61.00 | 16.10 | 4.30 | 8.21 |
| SULSEIBAR | | II | 10 | 76.00 | 1 | 13.806 | 64.00 | 16.16 | 5.90 | 6.23 |
| SULSEIBAR | | III | 10.57 | 74.24 | 1.25 | 11.741 | 63.37 | 16.17 | 5.90 | 8.26 |
| SULSEIBAR | | IV | 11 | 114.00 | 1 | 16.184 | 68.00 | 15.90 | 8.40 | 7.9 |
| SULSEIBAR | 2014 | I | 10.91 | 83.27 | 1.11 | 15.379 | 61.99 | 16.12 | 7.30 | 8.38 |
| SULSEIBAR | | II | 10.31 | 71.02 | 1.1 | 13.175 | 63.44 | 16.28 | 6.70 | 6.39 |
| SULSEIBAR | | III | 10.59 | 73.80 | 1.04 | 12.287 | 60.89 | 16.29 | 4.50 | 7.73 |
| SULSEIBAR | | IV | 11 | 109.00 | 1 | 17.193 | 65.00 | 16.12 | 8.40 | 7.7 |
| SULSEIBAR | 2015 | I | 10.07 | 73.29 | 0.83 | 14.912 | 60.10 | 16.42 | 6.40 | 5.72 |
| SULSEIBAR | | II | 9.66 | 70.85 | 0.82 | 12.285 | 62.78 | 16.47 | 7.30 | 7.96 |
| SULSEIBAR | | III | 9.73 | 69.00 | 0.74 | 12.181 | 63.14 | 16.54 | 6.80 | 7.59 |
| SULSEIBAR | | IV | 10.02 | 117.17 | 0.65 | 17.803 | 63.82 | 16.26 | 3.40 | 7.24 |
| SULSEIBAR | 2016 | I | 9.95 | 71.98 | 0.65 | 14.014 | 54.45 | 16.57 | 4.50 | 7.43 |
| SULSEIBAR | | II | 10.58 | 90.01 | 0.5 | 15.228 | 56.85 | 16.60 | 3.50 | 8.04 |
| SULSEIBAR | | III | 9.79 | 88.85 | 0.5 | 13.568 | 59.51 | 16.65 | 3.10 | 6.82 |
| SULSEIBAR | | IV | 9.49 | 103.00 | 0.51 | 15.140 | 60.13 | 16.60 | 3.00 | 7.6 |
| SULSEIBAR | 2017 | I | 6.14 | 72.78 | 0.56 | 12.327 | 72.91 | 16.88 | 3.61 | 7.52 |
| SULSEIBAR | | II | 5.71 | 81.45 | 0.59 | 11.446 | 70.55 | 16.87 | 4.40 | 6.63 |
| SULSEIBAR | | III | 6.16 | 93.24 | 0.57 | 13.445 | 68.80 | 16.77 | 3.70 | 6.25 |
| SULSEIBAR | | IV | 6.37 | 119.38 | 0.56 | 15.390 | 70.28 | 16.68 | 3.60 | 7.78 |
| SULSEIBAR | 2018 | I | 6.94 | 94.70 | 0.67 | 11.136 | 62.60 | 16.87 | 3.40 | 7.37 |
| SULSEIBAR | | II | 6.66 | 93.74 | 0.63 | 12.025 | 69.97 | 16.93 | 3.12 | 7.38 |
| SULSEIBAR | | III | 6.53 | 94.22 | 0.58 | 12.546 | 66.50 | 16.95 | 2.06 | 7.72 |
| SULSEIBAR | | IV | 6.51 | 119.76 | 0.51 | 14.748 | 67.61 | 16.84 | 3.20 | 8.14 |
| SULTENG | 2009 | IV | 10.6 | 100.44 | 8.81 | 19.985 | 65.13 | 13.59 | 2.41 | 3.47 |
| SULTENG | 2010 | I | 10.6 | 59.22 | 8.59 | 15.322 | 56.20 | 13.91 | 3.40 | 7.92 |
| SULTENG | | II | 13.09 | 60.99 | 8.85 | 15.341 | 59.66 | 13.90 | 5.00 | 8.29 |
| SULTENG | | III | 12.53 | 62.13 | 8.64 | 16.584 | 55.18 | 13.90 | 5.80 | 8.74 |
| SULTENG | | IV | 12.07 | 85.44 | 8.88 | 16.258 | 59.43 | 14.01 | 7.00 | 6.33 |
| SULTENG | 2011 | I | 8.16 | 49.94 | 8.71 | 16.313 | 59.71 | 14.12 | 6.70 | 10.13 |

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|---------|------|-----|------|--------|------|--------|-------|-------|------|-------|
| SULTENG | | II | 7.83 | 49.56 | 8.39 | 13.571 | 69.85 | 14.11 | 5.50 | 9.55 |
| SULTENG | | III | 7.85 | 48.37 | 8.07 | 13.535 | 74.02 | 14.15 | 4.60 | 9.31 |
| SULTENG | | IV | 7.72 | 77.27 | 7.44 | 17.205 | 71.41 | 13.95 | 3.80 | 7.79 |
| SULTENG | 2012 | I | 5.56 | 34.69 | 7.63 | 11.592 | 65.68 | 14.46 | 4.00 | 10.03 |
| SULTENG | | II | 4.97 | 39.34 | 6.87 | 11.366 | 76.71 | 14.46 | 4.50 | 9.45 |
| SULTENG | | III | 5.47 | 46.74 | 6.39 | 11.678 | 78.56 | 14.41 | 4.30 | 6.61 |
| SULTENG | | IV | 5.47 | 107.27 | 4.49 | 16.674 | 80.60 | 14.12 | 4.30 | 10.97 |
| SULTENG | 2013 | I | 6.22 | 50.03 | 4.57 | 12.926 | 68.22 | 14.48 | 4.30 | 10.71 |
| SULTENG | | II | 6.35 | 54.57 | 4.77 | 10.713 | 68.63 | 14.53 | 5.90 | 10.87 |
| SULTENG | | III | 7.7 | 65.33 | 4.62 | 11.443 | 74.64 | 14.51 | 5.90 | 9.99 |
| SULTENG | | IV | 8.09 | 128.43 | 2.92 | 20.119 | 65.87 | 14.40 | 8.40 | 6.28 |
| SULTENG | 2014 | I | 9.53 | 80.12 | 2.99 | 12.383 | 61.06 | 14.99 | 7.30 | 2.23 |
| SULTENG | | II | 8.79 | 74.56 | 2.44 | 12.383 | 64.49 | 14.99 | 6.70 | 1.76 |
| SULTENG | | III | 9.28 | 86.27 | 2.18 | 10.512 | 65.51 | 15.15 | 4.50 | 6.6 |
| SULTENG | | IV | 9.65 | 120.44 | 1.4 | 15.990 | 67.81 | 14.83 | 8.40 | 9.51 |
| SULTENG | 2015 | I | 7.55 | 56.05 | 1.85 | 13.806 | 73.49 | 15.11 | 6.40 | 16.49 |
| SULTENG | | II | 7.46 | 51.94 | 1.78 | 10.480 | 69.47 | 15.37 | 7.30 | 15.09 |
| SULTENG | | III | 7.39 | 49.80 | 1.62 | 10.568 | 67.72 | 15.43 | 6.80 | 15.63 |
| SULTENG | | IV | 7.53 | 80.62 | 1.71 | 12.710 | 71.60 | 15.20 | 3.40 | 15.1 |
| SULTENG | 2016 | I | 7.01 | 59.64 | 1.66 | 11.160 | 72.78 | 15.47 | 4.50 | 13.21 |
| SULTENG | | II | 7.05 | 66.39 | 1.63 | 9.789 | 71.63 | 15.46 | 3.50 | 15.52 |
| SULTENG | | III | 6.94 | 71.64 | 1.77 | 10.109 | 72.32 | 15.49 | 3.10 | 7.92 |
| SULTENG | | IV | 7.17 | 91.11 | 1.36 | 13.102 | 72.82 | 15.27 | 3.00 | 3.8 |
| SULTENG | 2017 | I | 6.89 | 64.83 | 1.43 | 10.672 | 81.60 | 15.51 | 3.61 | 3.91 |
| SULTENG | | II | 6.51 | 64.02 | 1.53 | 10.088 | 77.85 | 15.53 | 4.40 | 6.61 |
| SULTENG | | III | 6.54 | 66.50 | 1.5 | 10.366 | 75.70 | 15.57 | 3.70 | 8.73 |
| SULTENG | | IV | 6.6 | 95.81 | 1.36 | 12.787 | 76.35 | 15.48 | 3.60 | 9.15 |
| SULTENG | 2018 | I | 5.73 | 67.39 | 1.43 | 12.462 | 76.23 | 15.65 | 3.40 | 6.61 |
| SULTENG | | II | 5.95 | 75.01 | 1.57 | 11.561 | 81.65 | 15.63 | 3.12 | 6.03 |
| SULTENG | | III | 6.17 | 78.22 | 1.54 | 12.980 | 76.30 | 15.58 | 3.52 | 7.05 |
| SULTENG | | IV | 6.32 | 94.41 | 1.52 | 13.848 | 76.07 | 15.61 | 6.46 | 5.37 |

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|--------|------|-----|-------|--------|------|--------|-------|-------|------|-------|
| SULTRA | 2009 | IV | 12.96 | 102.21 | 5.86 | 17.850 | 55.42 | 14.26 | 2.41 | 8.73 |
| SULTRA | 2010 | I | 11.37 | 79.24 | 5.36 | 19.307 | 76.00 | 14.26 | 3.40 | 8.06 |
| SULTRA | | II | 10.98 | 69.46 | 4.88 | 11.340 | 68.37 | 14.41 | 5.00 | 8.98 |
| SULTRA | | III | 11.77 | 76.67 | 5.8 | 15.850 | 74.03 | 14.34 | 5.80 | 8.32 |
| SULTRA | | IV | 12.55 | 97.52 | 5.75 | 18.039 | 64.75 | 14.33 | 7.00 | 7.38 |
| SULTRA | 2011 | I | 13.98 | 71.44 | 5.41 | 17.800 | 51.42 | 14.43 | 6.70 | 8.98 |
| SULTRA | | II | 15.94 | 64.30 | 4.51 | 9.918 | 60.16 | 14.54 | 5.50 | 8.32 |
| SULTRA | | III | 16.4 | 63.77 | 2.63 | 14.094 | 56.34 | 14.69 | 4.60 | 8.17 |
| SULTRA | | IV | 15.1 | 83.68 | 2.24 | 15.258 | 54.45 | 14.67 | 3.80 | 7.84 |
| SULTRA | 2012 | I | 8.92 | 53.38 | 2.28 | 10.492 | 63.39 | 14.90 | 4.00 | 10.1 |
| SULTRA | | II | 8.68 | 53.88 | 2.24 | 10.672 | 70.75 | 14.98 | 4.50 | 11.21 |
| SULTRA | | III | 8.59 | 55.65 | 1.91 | 9.171 | 71.05 | 15.04 | 4.30 | 11.58 |
| SULTRA | | IV | 8.89 | 92.02 | 1.33 | 13.580 | 59.56 | 14.94 | 4.30 | 9.59 |
| SULTRA | 2013 | I | 7.62 | 59.94 | 1.7 | 10.747 | 65.33 | 15.06 | 4.30 | 9.72 |
| SULTRA | | II | 7.55 | 62.67 | 2.06 | 11.764 | 68.55 | 15.07 | 5.90 | 7.14 |
| SULTRA | | III | 7.97 | 63.90 | 1.72 | 11.790 | 71.36 | 15.14 | 5.90 | 6 |
| SULTRA | | IV | 8.3 | 96.71 | 1.64 | 15.508 | 62.60 | 14.95 | 8.40 | 7.8 |
| SULTRA | 2014 | I | 8.52 | 73.10 | 2.45 | 11.309 | 77.19 | 15.17 | 7.30 | 8.68 |
| SULTRA | | II | 8.19 | 64.98 | 2.88 | 10.944 | 77.71 | 15.30 | 6.70 | 5.45 |
| SULTRA | | III | 8.45 | 69.77 | 2.9 | 12.318 | 79.28 | 15.25 | 4.50 | 5.86 |
| SULTRA | | IV | 8.68 | 111.84 | 2.86 | 16.987 | 71.67 | 15.05 | 8.40 | 5.31 |
| SULTRA | 2015 | I | 7.54 | 66.39 | 3.47 | 11.392 | 81.28 | 15.35 | 6.40 | 5.7 |
| SULTRA | | II | 7.19 | 62.50 | 3.7 | 10.489 | 81.83 | 15.50 | 7.30 | 7.2 |
| SULTRA | | III | 7.08 | 63.17 | 3.62 | 10.162 | 83.21 | 15.57 | 6.80 | 7 |
| SULTRA | | IV | 7.51 | 94.44 | 2.9 | 15.065 | 76.41 | 15.34 | 3.40 | 7.5 |
| SULTRA | 2016 | I | 8.09 | 71.84 | 3 | 11.594 | 76.87 | 15.55 | 4.50 | 5.5 |
| SULTRA | | II | 7.75 | 79.12 | 2.66 | 12.931 | 79.18 | 15.55 | 3.50 | 6.8 |
| SULTRA | | III | 7.95 | 85.03 | 2.76 | 13.414 | 77.92 | 15.57 | 3.10 | 6 |
| SULTRA | | IV | 7.98 | 97.72 | 2.3 | 13.628 | 73.42 | 15.54 | 3.00 | 7.6 |
| SULTRA | 2017 | I | 7.83 | 79.40 | 2.45 | 14.221 | 77.09 | 15.59 | 3.61 | 8 |
| SULTRA | | II | 7.4 | 74.39 | 2.33 | 11.738 | 78.64 | 15.70 | 4.40 | 7 |

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|--------|------|-----|-------|--------|------|--------|-------|-------|------|-------|
| SULTRA | | III | 7.58 | 84.71 | 2.11 | 13.342 | 77.23 | 15.64 | 3.70 | 6.5 |
| SULTRA | | IV | 7.56 | 103.51 | 1.82 | 14.866 | 73.49 | 15.63 | 2.97 | 6.1 |
| SULTRA | 2018 | I | 7.67 | 89.10 | 1.76 | 14.406 | 67.85 | 15.74 | 2.39 | 5.8 |
| SULTRA | | II | 7.65 | 81.29 | 1.61 | 12.320 | 69.30 | 15.86 | 1.79 | 6.1 |
| SULTRA | | III | 7.64 | 83.58 | 1.52 | 12.872 | 69.89 | 15.89 | 1.40 | 6.6 |
| SULTRA | | IV | 7.57 | 101.38 | 1.41 | 14.975 | 69.19 | 15.77 | 2.66 | 6.2 |
| SULUT | 2009 | IV | 8.4 | 100.25 | 0.51 | 6.758 | 89.84 | 15.02 | 2.41 | 11.27 |
| SULUT | 2010 | I | 11.91 | 82.65 | 0.48 | 7.348 | 81.17 | 15.06 | 3.40 | 6.75 |
| SULUT | | II | 13.04 | 85.85 | 0.81 | 5.570 | 78.80 | 15.17 | 5.00 | 6.8 |
| SULUT | | III | 13.07 | 90.48 | 0.92 | 7.531 | 73.43 | 15.19 | 5.80 | 7.04 |
| SULUT | | IV | 11.64 | 104.98 | 0.98 | 6.644 | 85.09 | 15.28 | 7.00 | 7.77 |
| SULUT | 2011 | I | 9.81 | 82.62 | 1.12 | 6.476 | 79.92 | 15.40 | 6.70 | 6.99 |
| SULUT | | II | 8.88 | 87.34 | 1.21 | 6.493 | 83.80 | 15.48 | 5.50 | 7.14 |
| SULUT | | III | 8.55 | 82.83 | 1.2 | 5.988 | 86.15 | 15.55 | 4.60 | 7.73 |
| SULUT | | IV | 8.46 | 99.78 | 1.26 | 8.110 | 84.96 | 15.48 | 3.80 | 8.3 |
| SULUT | 2012 | I | 7.36 | 75.16 | 1.16 | 7.637 | 81.17 | 15.67 | 4.00 | 7.46 |
| SULUT | | II | 6.82 | 70.29 | 1 | 7.275 | 85.24 | 15.78 | 4.50 | 7.47 |
| SULUT | | III | 7.55 | 75.89 | 0.89 | 6.869 | 77.26 | 15.81 | 4.30 | 8.21 |
| SULUT | | IV | 8.66 | 109.62 | 0.81 | 8.354 | 77.45 | 15.69 | 4.30 | 8.37 |
| SULUT | 2013 | I | 11.43 | 83.08 | 0.7 | 8.278 | 65.08 | 15.87 | 4.30 | 7.57 |
| SULUT | | II | 11.49 | 82.29 | 0.61 | 7.028 | 67.79 | 15.96 | 5.90 | 7.21 |
| SULUT | | III | 11.21 | 84.33 | 0.56 | 7.969 | 70.95 | 15.91 | 5.90 | 7.46 |
| SULUT | | IV | 11.71 | 112.94 | 0.54 | 9.950 | 75.56 | 15.87 | 8.40 | 7.51 |
| SULUT | 2014 | I | 7.43 | 82.63 | 0.64 | 10.224 | 73.26 | 15.97 | 7.30 | 7.94 |
| SULUT | | II | 10.11 | 74.44 | 1.89 | 7.004 | 80.89 | 16.10 | 6.70 | 7.32 |
| SULUT | | III | 9.95 | 75.73 | 2.41 | 6.909 | 86.02 | 16.15 | 4.50 | 7.01 |
| SULUT | | IV | 9.72 | 90.10 | 1.29 | 8.013 | 83.76 | 16.19 | 8.40 | 6.72 |
| SULUT | 2015 | I | 7.94 | 75.87 | 0.63 | 7.199 | 83.59 | 16.34 | 6.40 | 6.42 |
| SULUT | | II | 8.22 | 77.12 | 1.28 | 6.736 | 85.18 | 16.33 | 7.30 | 6.27 |
| SULUT | | III | 8.89 | 77.83 | 1.02 | 6.563 | 94.71 | 16.30 | 6.80 | 6.28 |
| SULUT | | IV | 9.19 | 95.09 | 0.97 | 8.841 | 87.35 | 16.19 | 3.40 | 6.49 |

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|---------------|-------------|-----------|-------------|--------------|------------|--------------|--------------|--------------|-------------|--------------|
| SULUT | 2016 | I | 9.32 | 72.69 | 1.03 | 7.962 | 76.49 | 16.39 | 4.50 | 5.69 |
| SULUT | | II | 11.14 | 75.18 | 1.04 | 7.555 | 79.99 | 16.38 | 3.50 | 6.14 |
| SULUT | | III | 8.75 | 74.76 | 1.02 | 8.442 | 82.36 | 16.40 | 3.10 | 6.01 |
| SULUT | | IV | 9.25 | 103.68 | 0.94 | 11.153 | 86.88 | 16.24 | 3.00 | 6.49 |
| SULUT | 2017 | I | 9.69 | 77.50 | 1.04 | 9.296 | 77.82 | 16.41 | 3.61 | 6.43 |
| SULUT | | II | 9.21 | 79.15 | 1.3 | 9.397 | 78.43 | 16.45 | 4.40 | 5.8 |
| SULUT | | III | 9.49 | 80.59 | 1.33 | 9.629 | 78.61 | 16.50 | 3.70 | 6.49 |
| SULUT | | IV | 9.6 | 91.39 | 1.36 | 10.273 | 81.79 | 16.46 | 3.60 | 6.53 |
| SULUT | 2018 | I | 7.69 | 80.20 | 1.43 | 8.861 | 81.14 | 16.56 | 3.40 | 6.6 |
| SULUT | | II | 8.11 | 93.20 | 1.64 | 9.984 | 81.05 | 16.49 | 3.12 | 5.83 |
| SULUT | | III | 8.34 | 99.31 | 1.77 | 10.845 | 79.44 | 16.47 | 1.45 | 5.59 |
| SULUT | | IV | 8.24 | 102.87 | 2.53 | 11.211 | 82.14 | 16.48 | 3.83 | 6.1 |
| SUMBAR | 2009 | IV | 8.46 | 87.72 | 3.3 | 9.653 | 79.85 | 15.91 | 2.41 | -0.14 |
| SUMBAR | 2010 | I | 13 | 86.39 | 3.27 | 11.559 | 68.81 | 16.03 | 3.40 | 3.29 |
| SUMBAR | | II | 12.27 | 89.91 | 4.16 | 8.572 | 72.40 | 16.04 | 5.00 | 4.8 |
| SUMBAR | | III | 11.04 | 80.78 | 4.32 | 8.802 | 72.14 | 16.11 | 5.80 | 5.48 |
| SUMBAR | | IV | 10.43 | 84.41 | 3.31 | 9.036 | 76.34 | 16.15 | 7.00 | 10.15 |
| SUMBAR | 2011 | I | 6.47 | 83.23 | 3.22 | 9.020 | 83.13 | 16.28 | 6.70 | 8.17 |
| SUMBAR | | II | 7.17 | 87.02 | 3.16 | 6.714 | 84.07 | 16.32 | 5.50 | 6.77 |
| SUMBAR | | III | 7.44 | 86.46 | 3.06 | 7.130 | 79.26 | 16.37 | 4.60 | 5.57 |
| SUMBAR | | IV | 7.59 | 91.69 | 2.76 | 8.641 | 78.82 | 16.37 | 3.80 | 4.52 |
| SUMBAR | 2012 | I | 7.19 | 85.93 | 3 | 9.244 | 75.84 | 16.45 | 4.00 | 4.68 |
| SUMBAR | | II | 7 | 90.34 | 2.99 | 9.622 | 77.58 | 16.48 | 4.50 | 6.59 |
| SUMBAR | | III | 7.32 | 91.77 | 3.11 | 9.830 | 77.49 | 16.52 | 4.30 | 6.66 |
| SUMBAR | | IV | 7.26 | 100.35 | 2.69 | 9.129 | 76.73 | 16.48 | 4.30 | 7.41 |
| SUMBAR | 2013 | I | 6.65 | 86.13 | 2.72 | 11.072 | 81.22 | 16.62 | 4.30 | 6.8 |
| SUMBAR | | II | 6.86 | 96.79 | 2.52 | 8.257 | 80.74 | 16.58 | 5.90 | 5.52 |
| SUMBAR | | III | 7.15 | 90.36 | 2.7 | 8.233 | 79.67 | 16.65 | 5.90 | 5.59 |
| SUMBAR | | IV | 7.28 | 99.13 | 2.28 | 9.408 | 78.27 | 16.60 | 8.40 | 6.85 |
| SUMBAR | 2014 | I | 6.76 | 92.58 | 2.55 | 9.610 | 82.53 | 16.65 | 7.30 | 7.52 |
| SUMBAR | | II | 6.38 | 88.00 | 2.74 | 8.478 | 86.03 | 16.72 | 6.70 | 4.97 |

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|----------------|------|-----|------|-------|------|--------|-------|-------|------|------|
| SUMBAR | | III | 6.48 | 86.80 | 2.98 | 8.532 | 86.72 | 16.75 | 4.50 | 5.44 |
| SUMBAR | | IV | 6.56 | 98.34 | 2.52 | 9.987 | 84.51 | 16.71 | 8.40 | 5.59 |
| SUMBAR | 2015 | I | 6.63 | 90.14 | 2.79 | 9.739 | 84.62 | 16.78 | 6.40 | 5.86 |
| SUMBAR | | II | 6.6 | 89.13 | 2.97 | 8.928 | 85.59 | 16.81 | 7.30 | 5.48 |
| SUMBAR | | III | 6.83 | 89.83 | 2.96 | 9.525 | 83.83 | 16.82 | 6.80 | 4.93 |
| SUMBAR | | IV | 6.94 | 99.24 | 2.74 | 11.001 | 81.75 | 16.78 | 3.40 | 5.74 |
| SUMBAR | 2016 | I | 6.79 | 87.18 | 3.16 | 10.801 | 76.38 | 16.87 | 4.50 | 5.55 |
| SUMBAR | | II | 6.65 | 98.26 | 3.3 | 10.987 | 80.62 | 16.81 | 3.50 | 5.86 |
| SUMBAR | | III | 6.93 | 93.39 | 3.25 | 11.137 | 81.05 | 16.83 | 3.10 | 4.82 |
| SUMBAR | | IV | 6.74 | 98.02 | 3.07 | 12.001 | 81.75 | 16.84 | 3.00 | 4.86 |
| SUMBAR | 2017 | I | 6.34 | 91.88 | 3.24 | 11.961 | 83.83 | 16.88 | 3.61 | 4.99 |
| SUMBAR | | II | 6.72 | 91.34 | 3.32 | 11.038 | 82.89 | 16.92 | 4.40 | 5.32 |
| SUMBAR | | III | 6.99 | 94.10 | 3.19 | 11.858 | 81.85 | 16.88 | 3.70 | 5.38 |
| SUMBAR | | IV | 6.53 | 99.24 | 3.01 | 12.557 | 83.39 | 16.88 | 3.60 | 5.37 |
| SUMBAR | 2018 | I | 6.86 | 95.92 | 3.2 | 12.723 | 81.95 | 16.90 | 3.40 | 4.69 |
| SUMBAR | | II | 7.08 | 93.89 | 3.04 | 12.053 | 81.33 | 16.92 | 3.12 | 5.08 |
| SUMBAR | | III | 7.33 | 93.50 | 3.11 | 12.068 | 81.71 | 16.95 | 2.69 | 5.24 |
| SUMBAR | | IV | 7.18 | 96.68 | 2.96 | 12.428 | 82.38 | 16.97 | 2.60 | 5.5 |
| SUMSEL & BABEL | 2009 | IV | 8.47 | 79.03 | 2.42 | 8.738 | 78.09 | 15.94 | 2.41 | 5.36 |
| SUMSEL & BABEL | 2010 | I | 7.2 | 64.09 | 1.87 | 8.064 | 86.07 | 16.13 | 3.40 | 5.6 |
| SUMSEL & BABEL | | II | 6.78 | 66.58 | 1.56 | 7.409 | 84.39 | 16.20 | 5.00 | 5.7 |
| SUMSEL & BABEL | | III | 6.89 | 68.74 | 1.37 | 7.789 | 83.66 | 16.24 | 5.80 | 5.3 |
| SUMSEL & BABEL | | IV | 7.22 | 71.17 | 1.33 | 8.609 | 80.81 | 16.20 | 7.00 | 6 |
| SUMSEL & BABEL | 2011 | I | 7.52 | 61.06 | 1.31 | 6.451 | 78.97 | 16.42 | 6.70 | 5.9 |
| SUMSEL & BABEL | | II | 6.58 | 67.77 | 1.23 | 4.418 | 82.33 | 16.43 | 5.50 | 6 |
| SUMSEL & BABEL | | III | 6.54 | 69.58 | 1.62 | 5.903 | 81.89 | 16.45 | 4.60 | 6.1 |
| SUMSEL & BABEL | | IV | 6.67 | 75.19 | 1.46 | 7.034 | 80.64 | 16.40 | 3.80 | 7.6 |

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|----------------|------|-----|-------|-------|------|--------|-------|-------|------|------|
| SUMSEL & BABEL | 2012 | I | 6.2 | 62.70 | 1.89 | 8.215 | 79.61 | 16.61 | 4.00 | 6.9 |
| SUMSEL & BABEL | | II | 6.28 | 72.63 | 1.77 | 8.188 | 84.95 | 16.57 | 4.50 | 6 |
| SUMSEL & BABEL | | III | 6.32 | 71.94 | 8.22 | 8.311 | 78.77 | 16.61 | 4.30 | 5.8 |
| SUMSEL & BABEL | | IV | 6.5 | 75.98 | 6.82 | 8.770 | 82.28 | 16.57 | 4.30 | 5.5 |
| SUMSEL & BABEL | 2013 | I | 6.89 | 71.93 | 7.01 | 9.428 | 77.55 | 16.63 | 4.30 | 6.2 |
| SUMSEL & BABEL | | II | 7.21 | 75.13 | 7.41 | 9.237 | 80.26 | 16.61 | 5.90 | 6.1 |
| SUMSEL & BABEL | | III | 7.52 | 80.29 | 7.8 | 10.164 | 76.63 | 16.58 | 5.90 | 5.4 |
| SUMSEL & BABEL | | IV | 7.97 | 94.00 | 9.01 | 11.088 | 86.23 | 16.47 | 8.40 | 6.6 |
| SUMSEL & BABEL | 2014 | I | 8.44 | 89.71 | 9.26 | 11.382 | 82.04 | 16.51 | 7.30 | 3.8 |
| SUMSEL & BABEL | | II | 8.06 | 70.58 | 9.54 | 9.211 | 82.42 | 16.73 | 6.70 | 4.9 |
| SUMSEL & BABEL | | III | 7.94 | 68.91 | 9.9 | 9.539 | 84.71 | 16.74 | 4.50 | 4.1 |
| SUMSEL & BABEL | | IV | 7.91 | 85.97 | 7.1 | 11.417 | 81.54 | 16.59 | 8.40 | 6 |
| SUMSEL & BABEL | 2015 | I | 8.06 | 64.44 | 7.41 | 9.661 | 80.32 | 16.75 | 6.40 | 4.58 |
| SUMSEL & BABEL | | II | 7.56 | 62.93 | 7.01 | 9.166 | 80.69 | 16.86 | 7.30 | 4.71 |
| SUMSEL & BABEL | | III | 7.57 | 64.04 | 6.74 | 9.627 | 81.92 | 16.85 | 6.80 | 4.75 |
| SUMSEL & BABEL | | IV | 7.67 | 95.43 | 4.38 | 12.557 | 81.44 | 16.62 | 3.40 | 3.94 |
| SUMSEL & BABEL | 2016 | I | 8.06 | 74.18 | 4.41 | 10.542 | 81.35 | 16.76 | 4.50 | 4.94 |
| SUMSEL & BABEL | | II | 7.75 | 80.96 | 6.03 | 11.091 | 81.59 | 16.75 | 3.50 | 5.03 |
| SUMSEL & BABEL | | III | 7.95 | 80.39 | 6.39 | 11.344 | 79.67 | 16.78 | 3.10 | 4.78 |
| SUMSEL & BABEL | | IV | 11.82 | 88.92 | 6.17 | 14.964 | 80.17 | 16.76 | 3.00 | 5.15 |
| SUMSEL & BABEL | 2017 | I | 7.8 | 71.07 | 6.3 | 12.665 | 80.17 | 16.91 | 3.61 | 5.14 |

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|----------------|------|-----|-------|--------|------|--------|-------|-------|------|------|
| SUMSEL & BABEL | | II | 7.55 | 69.89 | 6.11 | 12.770 | 81.14 | 16.93 | 4.40 | 5.26 |
| SUMSEL & BABEL | | III | 7.6 | 70.82 | 6.11 | 13.120 | 80.15 | 16.94 | 3.70 | 5.56 |
| SUMSEL & BABEL | | IV | 10.78 | 78.97 | 6.38 | 13.443 | 80.81 | 16.91 | 3.60 | 5.93 |
| SUMSEL & BABEL | 2018 | I | 7.91 | 75.96 | 6.27 | 13.488 | 75.15 | 16.90 | 3.40 | 5.87 |
| SUMSEL & BABEL | | II | 8.21 | 78.21 | 5.44 | 13.905 | 78.72 | 16.89 | 3.12 | 6.07 |
| SUMSEL & BABEL | | III | 8.14 | 74.00 | 5.58 | 13.431 | 78.10 | 16.96 | 4.57 | 7.17 |
| SUMSEL & BABEL | | IV | 7.7 | 71.36 | 5.51 | 12.738 | 78.80 | 17.06 | 3.60 | 6.47 |
| SUMUT | 2009 | IV | 11.24 | 97.87 | 2.47 | 10.058 | 69.86 | 16.19 | 2.41 | 5.36 |
| SUMUT | 2010 | I | 11.1 | 88.94 | 3.2 | 11.268 | 55.74 | 16.25 | 3.40 | 6.02 |
| SUMUT | | II | 10.97 | 84.83 | 3.13 | 8.441 | 59.55 | 16.35 | 5.00 | 6.55 |
| SUMUT | | III | 11 | 84.92 | 3.41 | 8.527 | 61.72 | 16.40 | 5.80 | 6.42 |
| SUMUT | | IV | 11.47 | 91.04 | 3.02 | 8.923 | 68.65 | 16.36 | 7.00 | 6.36 |
| SUMUT | 2011 | I | 11.18 | 69.97 | 3.16 | 10.063 | 66.51 | 16.58 | 6.70 | 6.32 |
| SUMUT | | II | 10.78 | 62.98 | 3.19 | 8.125 | 67.01 | 16.74 | 5.50 | 6.8 |
| SUMUT | | III | 9.65 | 65.59 | 2.96 | 7.916 | 70.94 | 16.83 | 4.60 | 6.76 |
| SUMUT | | IV | 9.15 | 78.56 | 2.56 | 7.814 | 75.99 | 16.76 | 3.80 | 6.36 |
| SUMUT | 2012 | I | 8.34 | 73.83 | 2.73 | 8.342 | 71.72 | 16.84 | 4.00 | 6.32 |
| SUMUT | | II | 8.59 | 77.12 | 2.67 | 5.894 | 72.91 | 16.88 | 4.50 | 6.29 |
| SUMUT | | III | 8.86 | 80.86 | 2.73 | 6.721 | 71.36 | 16.88 | 4.30 | 6.12 |
| SUMUT | | IV | 8.49 | 101.90 | 3 | 7.782 | 77.76 | 16.81 | 4.30 | 6.13 |
| SUMUT | 2013 | I | 9.5 | 91.94 | 3.28 | 8.562 | 70.81 | 16.88 | 4.30 | 6.14 |
| SUMUT | | II | 9.22 | 90.93 | 3.7 | 6.228 | 69.67 | 16.94 | 5.90 | 6.11 |
| SUMUT | | III | 9.72 | 88.91 | 3.89 | 6.901 | 70.08 | 16.96 | 5.90 | 5.94 |
| SUMUT | | IV | 9.34 | 107.31 | 3.83 | 8.170 | 74.22 | 16.88 | 8.40 | 5.83 |
| SUMUT | 2014 | I | 8.47 | 91.18 | 4.79 | 8.411 | 75.15 | 16.94 | 7.30 | 5.3 |
| SUMUT | | II | 8.28 | 82.89 | 5.46 | 7.151 | 76.25 | 17.01 | 6.70 | 5.5 |
| SUMUT | | III | 8.22 | 80.88 | 5.6 | 7.272 | 76.55 | 17.07 | 4.50 | 5.4 |
| SUMUT | | IV | 8.14 | 95.89 | 5.47 | 8.605 | 80.30 | 16.97 | 8.40 | 4.7 |

| | | | | | | | | | | |
|------------|------|-----|-------|-------|------|--------|-------|-------|------|------|
| SUMUT | 2015 | I | 6.48 | 80.73 | 6.28 | 8.117 | 79.87 | 17.09 | 6.40 | 4.8 |
| SUMUT | | II | 6.66 | 77.75 | 6.61 | 6.505 | 80.53 | 17.15 | 7.30 | 5.1 |
| SUMUT | | III | 6.88 | 76.38 | 6.78 | 6.947 | 80.95 | 17.16 | 6.80 | 5.1 |
| SUMUT | | IV | 7.26 | 94.08 | 5 | 8.257 | 82.16 | 17.00 | 3.40 | 5.3 |
| SUMUT | 2016 | I | 7.82 | 79.07 | 6.17 | 7.671 | 82.60 | 17.12 | 4.50 | 4.66 |
| SUMUT | | II | 7.53 | 74.75 | 6.4 | 8.111 | 80.69 | 17.21 | 3.50 | 5.5 |
| SUMUT | | III | 7.57 | 77.30 | 6.05 | 9.248 | 77.78 | 17.19 | 3.10 | 5.28 |
| SUMUT | | IV | 7.89 | 93.89 | 4.7 | 10.390 | 79.54 | 17.08 | 3.00 | 5.18 |
| SUMUT | 2017 | I | 7.91 | 76.76 | 5.55 | 9.879 | 76.37 | 17.23 | 3.61 | 4.53 |
| SUMUT | | II | 7.57 | 71.04 | 5.29 | 8.348 | 76.99 | 17.30 | 4.40 | 5.14 |
| SUMUT | | III | 7.63 | 68.58 | 5.05 | 8.520 | 77.17 | 17.33 | 3.70 | 5.24 |
| SUMUT | | IV | 7.44 | 89.14 | 4.38 | 10.350 | 77.85 | 17.18 | 3.60 | 5.56 |
| SUMUT | 2018 | I | 7.43 | 70.55 | 5.17 | 9.381 | 79.17 | 17.34 | 3.40 | 4.73 |
| SUMUT | | II | 6.99 | 72.96 | 5.02 | 8.343 | 87.43 | 17.33 | 3.12 | 5.3 |
| SUMUT | | III | 7.15 | 84.86 | 4.59 | 9.622 | 82.75 | 17.26 | 1.45 | 3.52 |
| SUMUT | | IV | | | | | | | 3.83 | 3.95 |
| YOGYAKARTA | 2009 | IV | 9.61 | 79.33 | 1.36 | 10.985 | 75.17 | 15.07 | 2.41 | 6.28 |
| YOGYAKARTA | 2010 | I | 11.06 | 69.26 | 1.44 | 10.397 | 66.42 | 15.23 | 3.40 | 3.67 |
| YOGYAKARTA | | II | 10.29 | 66.56 | 1.48 | 9.020 | 71.01 | 15.33 | 5.00 | 4.94 |
| YOGYAKARTA | | III | 10.35 | 72.83 | 1.49 | 12.021 | 72.24 | 15.15 | 5.80 | 7.04 |
| YOGYAKARTA | | IV | 10.27 | 70.24 | 1.39 | 11.126 | 73.53 | 15.24 | 7.00 | 3.84 |
| YOGYAKARTA | 2011 | I | 9.46 | 66.37 | 1.62 | 11.739 | 68.78 | 15.27 | 6.70 | 4.68 |
| YOGYAKARTA | | II | 9.36 | 63.72 | 1.56 | 4.585 | 74.58 | 15.34 | 5.50 | 4.42 |
| YOGYAKARTA | | III | 9.23 | 66.84 | 1.33 | 4.836 | 75.05 | 15.38 | 4.60 | 3.12 |
| YOGYAKARTA | | IV | 9.29 | 78.71 | 1.19 | 10.472 | 74.96 | 15.39 | 3.80 | 8.45 |
| YOGYAKARTA | 2012 | I | 9.37 | 66.04 | 1.17 | 10.401 | 71.83 | 15.46 | 4.00 | 7.07 |
| YOGYAKARTA | | II | 8.98 | 64.54 | 1.13 | 8.940 | 74.47 | 15.52 | 4.50 | 5.97 |
| YOGYAKARTA | | III | 8.96 | 63.16 | 1.03 | 8.638 | 74.19 | 15.61 | 4.30 | 4.07 |
| YOGYAKARTA | | IV | 9.02 | 71.89 | 0.84 | 9.859 | 74.85 | 15.54 | 4.30 | 4.28 |
| YOGYAKARTA | 2013 | I | 9.96 | 63.19 | 1.07 | 9.547 | 71.80 | 15.63 | 4.30 | 4.75 |
| YOGYAKARTA | | II | 9.59 | 62.79 | 1.28 | 8.745 | 72.12 | 15.66 | 5.90 | 6.11 |

| | | | | | | | | | | |
|------------|------|-----|------|-------|------|--------|-------|-------|------|------|
| YOGYAKARTA | | III | 8.71 | 61.08 | 1.21 | 8.806 | 72.29 | 15.75 | 5.90 | 6.47 |
| YOGYAKARTA | | IV | 8.38 | 73.67 | 0.9 | 11.472 | 72.75 | 15.69 | 8.40 | 4.32 |
| YOGYAKARTA | 2014 | I | 7.87 | 72.43 | 1.53 | 10.186 | 70.08 | 15.75 | 7.30 | 6.04 |
| YOGYAKARTA | | II | 7.72 | 75.34 | 1.19 | 10.306 | 71.97 | 15.81 | 6.70 | 4.94 |
| YOGYAKARTA | | III | 7.83 | 76.79 | 1.25 | 10.913 | 70.42 | 15.85 | 4.50 | 5.58 |
| YOGYAKARTA | | IV | 7.83 | 80.34 | 1.23 | 12.423 | 72.64 | 15.87 | 8.40 | 4.2 |
| YOGYAKARTA | 2015 | I | 7.55 | 72.49 | 1.37 | 10.844 | 73.48 | 15.94 | 6.40 | 4.15 |
| YOGYAKARTA | | II | 7.37 | 76.30 | 1.83 | 11.352 | 73.23 | 15.94 | 7.30 | 4.74 |
| YOGYAKARTA | | III | 7.37 | 70.90 | 1.74 | 11.319 | 74.20 | 16.02 | 6.80 | 5.3 |
| YOGYAKARTA | | IV | 7.5 | 80.99 | 1.05 | 14.097 | 71.89 | 15.98 | 3.40 | 5.5 |
| YOGYAKARTA | 2016 | I | 7.7 | 74.02 | 2.6 | 14.110 | 10.54 | 16.03 | 4.50 | 4.83 |
| YOGYAKARTA | | II | 7.43 | 73.44 | 3.26 | 13.784 | 72.02 | 16.06 | 3.50 | 5.47 |
| YOGYAKARTA | | III | 7.37 | 70.90 | 1.74 | 15.203 | 74.20 | 16.05 | 3.10 | 4.68 |
| YOGYAKARTA | | IV | 7.52 | 80.84 | 3.4 | 16.108 | 70.15 | 16.09 | 3.00 | 4.71 |
| YOGYAKARTA | 2017 | I | 7.64 | 76.13 | 4.12 | 16.480 | 64.57 | 16.11 | 3.61 | 5.12 |
| YOGYAKARTA | | II | 7.32 | 73.33 | 3.46 | 14.673 | 70.17 | 16.16 | 4.40 | 5.16 |
| YOGYAKARTA | | III | 7.24 | 76.19 | 3.44 | 15.283 | 69.99 | 16.16 | 3.70 | 5.41 |
| YOGYAKARTA | | IV | 7.21 | 81.18 | 3.23 | 15.398 | 70.12 | 16.19 | 3.60 | 5.25 |
| YOGYAKARTA | 2018 | I | 7.43 | 77.35 | 3.99 | 14.695 | 66.74 | 16.17 | 3.40 | 5.36 |
| YOGYAKARTA | | II | 7.26 | 74.32 | 5.15 | 14.505 | 69.18 | 16.23 | 3.12 | 5.9 |
| YOGYAKARTA | | III | 7.26 | 77.90 | 5.22 | 15.011 | 70.66 | 16.23 | 2.77 | 6.04 |
| YOGYAKARTA | | IV | 7.31 | 83.94 | 4.21 | 15.907 | 73.35 | 16.30 | 2.66 | 7.39 |

Lampiran 4

Hasil pengolahan data pada STATA 15.0 untuk Variabel Dependen *Non Performing Loan*

1. Hasil pengolahan analisis deskriptif

```
. summarize nplgross ldr nim bopo teta size inflasi pdrb
```

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|----------|-----|----------|-----------|----------|----------|
| nplgross | 952 | 2.687017 | 2.488095 | .09 | 19.93 |
| ldr | 951 | 76.9331 | 14.91851 | 33.63 | 129.59 |
| nim | 951 | 8.039874 | 2.29156 | -4.76 | 23.92 |
| bopo | 952 | 73.45744 | 21.37128 | 6.44 | 665.59 |
| teta | 955 | 11.38739 | 2.938398 | 3.324089 | 22.34423 |
| size | 955 | 16.25602 | .8943067 | 13.59 | 18.56 |
| inflasi | 962 | 4.827162 | 1.631245 | 1.4 | 8.4 |
| pdrb | 962 | 5.584595 | 3.267235 | -21.1 | 28.93 |

2. Hasil analisis Model *Generalised Least Squares*

```
16 xtgls nplgross ldr nim bopo teta size inflasi pdrb
```

Cross-sectional time-series FGLS regression

Coefficients:generalized least squares

Panels: homoskedastic

Correlation: no autocorrelation

Estimated covariances = 1 Number of obs = 950

Estimated autocorrelations = 0 Number of groups = 26

Estimated coefficients = 8 Obs per group:

min = 34

avg = 36.53846

max = 37

Waldchi2(7)= 152.24

Log likelihood = -2143.624 Prob > chi2 =0.0000

| nplgross | Coef. | Std. Err. | z | P> z | [95% Conf. Interval] | |
|----------|-----------|-----------|-------|-------|----------------------|-----------|
| ldr | -.0173993 | .0055324 | -3.15 | 0.002 | -.0282425 | -.0065561 |
| nim | -.0030076 | .0387877 | -0.08 | 0.938 | -.0790302 | .0730149 |
| bopo | .0219637 | .0035511 | 6.19 | 0.000 | .0150037 | .0289237 |
| teta | .206488 | .0280459 | 7.36 | 0.000 | .151519 | .2614571 |
| size | .6763046 | .0985663 | 6.86 | 0.000 | .4831181 | .8694911 |
| inflasi | .0370166 | .0471798 | 0.78 | 0.433 | -.055454 | .1294873 |
| pdrb | -.0150371 | .0231815 | -0.65 | 0.517 | -.0604721 | .0303979 |
| _cons | -11.00065 | 1.841359 | -5.97 | 0.000 | -14.60965 | -7.391658 |

3. Hasil analisis model common effect

16. reg nplgross ldr nim bopo teta size inflasi pdrb

| Source | SS | df | MS | Number of obs | = | 950 |
|----------|------------|-----|------------|---------------|---|--------|
| Model | 812.787301 | 7 | 116.112472 | F(7, 942) | = | 21.57 |
| Residual | 5071.937 | 942 | 5.38422187 | Prob > F | = | 0.0000 |
| Total | 5884.7243 | 949 | 6.20097397 | R-squared | = | 0.1381 |
| | | | | Adj R-squared | = | 0.1317 |
| | | | | Root MSE | = | 2.3204 |

| nplgross | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] |
|----------|-----------|-----------|-------|-------|----------------------|
| ldr | -.0173993 | .0055558 | -3.13 | 0.002 | -.0283025 -.0064961 |
| nim | -.0030076 | .0389521 | -0.08 | 0.938 | -.0794505 .0734352 |
| bopo | .0219637 | .0035661 | 6.16 | 0.000 | .0149652 .0289622 |
| teta | .206488 | .0281648 | 7.33 | 0.000 | .151215 .261761 |
| size | .6763046 | .098984 | 6.83 | 0.000 | .4820499 .8705593 |
| inflasi | .0370166 | .0473797 | 0.78 | 0.435 | -.0559653 .1299986 |
| pdrb | -.0150371 | .0232798 | -0.65 | 0.518 | -.0607233 .0306491 |
| _cons | -11.00065 | 1.849161 | -5.95 | 0.000 | -14.62961 -7.371702 |

4. Hasil analisis model fixed effect

xreg nplgross ldr nim bopo teta size inflasi pdrb,fe

Fixed-effects (within) regression
Group variable: firm

Number of obs = 950
Number of groups = 26

R-sq:

within = 0.0861
between = 0.0401
overall = 0.0631

Obs per group:

min = 34
avg = 36.5
max = 37

corr(u_i, Xb) = 0.0140

F(7,917) = 12.34
Prob > F = 0.0000

| nplgross | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] | |
|----------|-----------|-----------------------------------|-------|-------|----------------------|--|
| ldr | .0076848 | .0052036 | 1.48 | 0.140 | -.0025277 .0178972 | |
| nim | .10137 | .0362719 | 2.79 | 0.005 | .0301843 .1725557 | |
| bopo | .0112333 | .0027716 | 4.05 | 0.000 | .0057939 .0166726 | |
| teta | .1497938 | .0309332 | 4.84 | 0.000 | .0890856 .2105019 | |
| size | .3364559 | .1852909 | 1.82 | 0.070 | -.0271875 .7000993 | |
| inflasi | -.0119974 | .0358419 | -0.33 | 0.738 | -.0823392 .0583443 | |
| pdrb | .0282549 | .0191044 | 1.48 | 0.139 | -.0092386 .0657484 | |
| _cons | -6.817567 | 3.170726 | -2.15 | 0.032 | -13.04029 -.5948445 | |
| sigma_u | 1.7304672 | | | | | |
| sigma_e | 1.7332773 | | | | | |
| rho | .49918871 | (fraction of variance due to u_i) | | | | |

F test that all u_i=0: F(25, 917) = 30.85

Prob > F = 0.0000

5. Hasil analisis model random effect

17 xtreg nplgross ldr nim bopo teta size inflasi pdrb,re

Random-effects GLS regression
Group variable: firm

Number of obs = 950
Number of groups = 26

R-sq: within = 0.0853 between = 0.0814 overall = 0.0804
corr(u_i, X) = 0 (assumed)

Obs per group: min = 34 avg = 36.5 max = 37
Wald chi2(7) = 87.25
Prob > chi2 = 0.0000

| nplgross | Coef. | Std. Err. | z | P> z | [95% Conf. Interval] | |
|----------|-----------|-----------------------------------|-------|-------|----------------------|-----------|
| ldr | .0060943 | .0051458 | 1.18 | 0.236 | -.0039912 | .0161799 |
| nim | .1006757 | .0355234 | 2.83 | 0.005 | .0310511 | .1703003 |
| bopo | .0117725 | .0027951 | 4.21 | 0.000 | .0062942 | .0172507 |
| teta | .151061 | .0299688 | 5.04 | 0.000 | .0923232 | .2097988 |
| size | .4426477 | .1631658 | 2.71 | 0.007 | .1228486 | .7624468 |
| inflasi | -.0075049 | .0361902 | -0.21 | 0.836 | -.0784363 | .0634266 |
| pdrb | .0249611 | .0192064 | 1.30 | 0.194 | -.0126827 | .0626049 |
| _cons | -8.472592 | 2.824125 | -3.00 | 0.003 | -14.00778 | -2.937408 |
| sigma_u | 1.2357665 | | | | | |
| sigma_e | 1.7332773 | | | | | |
| rho | .33701047 | (fraction of variance due to u_i) | | | | |

6. Hasil uji Chow (Memilih antara Pooled Least Square atau Fixed Effect)

Fixed-effects (within) regression
Group variable: firm

Number of obs = 950
Number of groups = 26

R-sq: within = 0.0861
between = 0.0401
overall = 0.0631

Obs per group: min = 34
avg = 36.5
max = 37

F(7,917) = 12.34
corr(u_i, Xb) = 0.0140

Prob > F = 0.0000

| nplgross | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] | |
|----------|-----------|-----------|-------|-------|----------------------|-----------|
| ldr | .0076848 | .0052036 | 1.48 | 0.140 | -.0025277 | .0178972 |
| nim | .10137 | .0362719 | 2.79 | 0.005 | .0301843 | .1725557 |
| bopo | .0112333 | .0027716 | 4.05 | 0.000 | .0057939 | .0166726 |
| teta | .1497938 | .0309332 | 4.84 | 0.000 | .0890856 | .2105019 |
| size | .3364559 | .1852909 | 1.82 | 0.070 | -.0271875 | .7000993 |
| inflasi | -.0119974 | .0358419 | -0.33 | 0.738 | -.0823392 | .0583443 |
| pdrb | .0282549 | .0191044 | 1.48 | 0.139 | -.0092386 | .0657484 |
| _cons | -6.817567 | 3.170726 | -2.15 | 0.032 | -13.04029 | -.5948445 |
| sigma_u | 1.7304672 | | | | | |
| sigma_e | 1.7332773 | | | | | |

rho | .49918871 (fraction of variance due to u_i)

F test that all u_i=0: F(25, 917) = 30.85 Prob > F = 0.0000

7. Hasil Uji LM (Memilih antara *Pooled Least Square* atau *Random Effect*)

```

31 . xttest0
Breusch and Pagan Lagrangian multiplier test for random effects
nplgross[firm,t] = Xb + u[firm] + e[firm,t]
Estimated results:
-----
|               Var      sd = sqrt(Var)
-----|-----
nplgross      6.200974      2.490175
e              3.00425      1.733277
u              1.527119      1.235766

Test:  Var(u) = 0
      chibar2(01) = 2630.35
      Prob > chibar2 = 0.0000
    
```

8. Hasil Uji Hausman (Memilih antara *Fixed Effect* atau *Random Effect*)

16 hausman fe re, sigmaless

| | Coefficients | | (b-B) Difference | sqrt(diag(V_b-V_B)) S.E. |
|---------|--------------|-----------|---------------------|-----------------------------|
| | (b) fe | (B) re | | |
| ldr | .0076848 | .0060943 | .0015904 | .00108 |
| nim | .10137 | .1006757 | .0006943 | .0089888 |
| bopo | .0112333 | .0117725 | -.0005392 | .0001914 |
| teta | .1497938 | .151061 | -.0012672 | .0088313 |
| size | .3364559 | .4426477 | -.1061918 | .0909971 |
| inflasi | -.0119974 | -.0075049 | -.0044926 | .0017318 |
| pdrb | .0282549 | .0249611 | .0032938 | .002001 |

b = consistent under Ho and Ha; obtained from xtreg

B = inconsistent under Ha, efficient under Ho; obtained from xtreg

Test: Ho: difference in coefficients not systematic

$$\chi^2(7) = (b-B)'[(V_b-V_B)^{-1}](b-B)$$

$$= 27.64$$

$$\text{Prob} > \chi^2 = 0.0000$$

9. Hasil Uji Multikolonieritas untuk Model Terpilih *Fixed Effect*

corr nplgross ldr nim bopo teta size inflasi pdrb (obs=950)

| | nplgross | ldr | nim | bopo | teta | size | inflasi | pdrb |
|----------|----------|---------|---------|---------|---------|---------|---------|--------|
| nplgross | 1.0000 | | | | | | | |
| ldr | -0.0094 | 1.0000 | | | | | | |
| nim | -0.1534 | 0.1460 | 1.0000 | | | | | |
| bopo | 0.1962 | 0.0176 | -0.1128 | 1.0000 | | | | |
| teta | 0.1668 | 0.3619 | 0.0103 | -0.0716 | 1.0000 | | | |
| size | 0.2411 | 0.0221 | -0.4852 | 0.1100 | -0.0918 | 1.0000 | | |
| inflasi | -0.0219 | -0.0530 | 0.1420 | 0.0012 | -0.1447 | -0.0640 | 1.0000 | |
| pdrb | -0.0593 | 0.0175 | 0.1303 | 0.0057 | -0.0076 | -0.1542 | 0.0347 | 1.0000 |

10. Hasil Uji Heteroskedastisitas untuk Model Terpilih *Fixed Effect*

16 . xttest3

Modified Wald test for groupwise heteroskedasticity in fixed effect regression model

H0: $\sigma(i)^2 = \sigma^2$ for all i

chi2 (26) = 51296.57
 Prob>chi2 = 0.000

11. Hasil Uji Auto Korelasi untuk Model Terpilih *Fixed Effect*

xtserial nplgross ldr nim bopo ear size inflasi pdrb

Wooldridge test for autocorrelation in panel data

H0: no first order autocorrelation

F(1, 230) = 38.288

Prob > F = 0.0000

3. Hasil analisis model common effect

reg ldr nplgross nim bopo teta size inflasi pdrb

| Source | SS | df | MS |
|--------|------------|-----|------------|
| Model | 38795.4558 | 7 | 5542.20797 |
| Total | 211431.188 | 949 | 222.793665 |

| | | |
|---------------|---|--------|
| Number of obs | = | 950 |
| F(7, 942) | = | 30.24 |
| Prob > F | = | 0.0000 |
| R-squared | = | 0.1835 |
| Adj R-squared | = | 0.1774 |
| Root MSE | = | 13.53 |

| ldr | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] |
|----------|-----------|-----------|-------|-------|----------------------|
| nplgross | -.5922273 | .1891053 | -3.13 | 0.002 | -.9633438 - .2211108 |
| nim | 1.466421 | .2221741 | 6.60 | 0.000 | 1.030408 1.902435 |
| bopo | .0490739 | .0211599 | 2.32 | 0.021 | .0075479 .0905999 |
| teta | 2.008384 | .1557531 | 12.89 | 0.000 | 1.702721 2.314047 |
| size | 3.093039 | .5829786 | 5.31 | 0.000 | 1.948952 4.237126 |
| inflasi | -.1717933 | .2764536 | -0.62 | 0.534 | -.7143295 .3707429 |
| pdrb | .0639173 | .135832 | 0.47 | 0.638 | -.2026511 .3304857 |
| _cons | -9.510692 | 10.98472 | -0.87 | 0.387 | -31.06805 12.04666 |

4. Hasil analisis model fixed effect

xtreg ldr nplgross nim bopo teta size inflasi pdrb,fe

Fixed-effects (within) regression
Group variable: firm

| | | |
|------------------|---|---------|
| Number of obs | = | 950 |
| Number of groups | = | 26 |
| Obs per group: | | |
| min | = | 34 |
| avg | = | 36.5 |
| max | = | 37 |
| R-sq: | | |
| within | = | 0.3245 |
| between | = | 0.0069 |
| overall | = | 0.1052 |
| corr(u_i, Xb) | = | -0.5361 |
| F(7, 917) | = | 62.94 |
| Prob > F | = | 0.0000 |

| ldr | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] |
|----------|-----------|-----------------------------------|-------|-------|----------------------|
| nplgross | .3087564 | .2090702 | 1.48 | 0.140 | -.1015553 .719068 |
| nim | .1617691 | .2308283 | 0.70 | 0.484 | -.2912439 .6147821 |
| bopo | .0194669 | .0177128 | 1.10 | 0.272 | -.0152953 .0542292 |
| teta | 3.282245 | .1663716 | 19.73 | 0.000 | 2.955731 3.608758 |
| size | -3.863483 | 1.169655 | -3.30 | 0.001 | -6.158994 -1.567972 |
| inflasi | .2917924 | .2269969 | 1.29 | 0.199 | -.1537013 .7372861 |
| pdrb | .0097108 | .1212392 | 0.08 | 0.936 | -.2282276 .2476493 |
| _cons | 97.3565 | 19.89038 | 4.89 | 0.000 | 58.32054 136.3925 |
| sigma_u | 10.945918 | | | | |
| sigma_e | 10.986535 | | | | |
| rho | .49814811 | (fraction of variance due to u_i) | | | |

F test that all u_i=0: F(25, 917) = 20.53 Prob > F = 0.0000

5. Hasil analisis model random effect

19 . xtreg ldr nplgross nim bopo teta size inflasi pdrb,re

Random-effects GLS regression
Group variable: firm

Number of obs = 950
Number of groups = 26

R-sq: within = 0.3203 between = 0.0016 overall = 0.1333
corr(u_i, X) = 0 (assumed)

Obs per group: min = 34 avg = 36.5 max = 37
Wald chi2(7) = 387.93
Prob > chi2 = 0.0000

| ldr | Coef. | Std. Err. | z | P> z | [95% Conf. Interval] | |
|----------|-----------|-----------------------------------|-------|-------|----------------------|----------|
| nplgross | .1930665 | .2055105 | 0.94 | 0.348 | -.2097266 | .5958596 |
| nim | .511824 | .2243532 | 2.28 | 0.023 | .0720998 | .9515481 |
| bopo | .0228481 | .0180597 | 1.27 | 0.206 | -.0125483 | .0582445 |
| teta | 3.020491 | .1626677 | 18.57 | 0.000 | 2.701668 | 3.339314 |
| size | -1.066366 | .9720624 | -1.10 | 0.273 | -2.971574 | .8388408 |
| inflasi | .2424786 | .2318578 | 1.05 | 0.296 | -.2119544 | .6969115 |
| pdrb | .0099463 | .1228245 | 0.08 | 0.935 | -.2307852 | .2506778 |
| _cons | 52.35885 | 16.82779 | 3.11 | 0.002 | 19.37699 | 85.34071 |
| sigma_u | 5.8455128 | | | | | |
| sigma_e | 10.986535 | | | | | |
| rho | .22063114 | (fraction of variance due to u_i) | | | | |

6. Hasil uji Chow (Memilih antara Pooled Least Square atau Fixed Effect)

Fixed-effects (within) regression
Group variable: firm

Number of obs = 950
Number of groups = 26

R-sq: within = 0.3245 between = 0.0069 overall = 0.1052
corr(u_i, Xb) = -0.5361

Obs per group: min = 34 avg = 36.5 max = 37
F(7, 917) = 62.94
Prob > F = 0.0000

| ldr | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] | |
|----------|-----------|-----------------------------------|-------|-------|----------------------|-----------|
| nplgross | .3087564 | .2090702 | 1.48 | 0.140 | -.1015553 | .719068 |
| nim | .1617691 | .2308283 | 0.70 | 0.484 | -.2912439 | .6147821 |
| bopo | .0194669 | .0177128 | 1.10 | 0.272 | -.0152953 | .0542292 |
| teta | 3.282245 | .1663716 | 19.73 | 0.000 | 2.955731 | 3.608758 |
| size | -3.863483 | 1.169655 | -3.30 | 0.001 | -6.158994 | -1.567972 |
| inflasi | .2917924 | .2269969 | 1.29 | 0.199 | -.1537013 | .7372861 |
| pdrb | .0097108 | .1212392 | 0.08 | 0.936 | -.2282276 | .2476493 |
| _cons | 97.3565 | 19.89038 | 4.89 | 0.000 | 58.32054 | 136.3925 |
| sigma_u | 10.945918 | | | | | |
| sigma_e | 10.986535 | | | | | |
| rho | .49814811 | (fraction of variance due to u_i) | | | | |

F test that all u_i=0: F(25, 917) = 20.53

Prob > F = 0.0000

7. Hasil Uji LM (Memilih antara *Pooled Least Square* atau *Random Effect*)

```
56 . xttest0
Breusch and Pagan Lagrangian multiplier test for random effects
ldr[firm,t] = Xb + u[firm] + e[firm,t]
Estimated results:
+-----+-----+
|          |      Var      |      sd = sqrt(Var)      |
+-----+-----+
| ldr      |      222.7937 |      14.92627            |
| e        |      120.7039 |      10.98653            |
| u        |      34.17002  |      5.845513            |
+-----+-----+
Test:      Var(u) = 0
           chibar2(01) = 1108.07
           Prob > chibar2 = 0.0000
```

8. Hasil Uji Hausman (Memilih antara *Fixed Effect* atau *Random Effect*)

hausman fe re, sigmaless

| | Coefficients | | (b-B) Difference | sqrt (diag (V_b-V_B)) S.E. |
|----------|--------------|-----------|---------------------|-------------------------------|
| | (b) fe | (B) re | | |
| nplgross | .3087564 | .1930665 | .1156899 | .0579996 |
| nim | .1617691 | .511824 | -.3500549 | .0720944 |
| bopo | .0194669 | .0228481 | -.0033812 | .001473 |
| teta | 3.282245 | 3.020491 | .2617536 | .049007 |
| size | -3.863483 | -1.066366 | -2.797117 | .6822246 |
| inflasi | .2917924 | .2424786 | .0493138 | .0131474 |
| pdrb | .0097108 | .0099463 | -.0002355 | .0169563 |

b = consistent under Ho and Ha; obtained from xtreg

B = inconsistent under Ha, efficient under Ho; obtained from xtreg

Test: Ho: difference in coefficients not systematic chi2(7)

$$= (b-B)'[(V_b-V_B)^{-1}](b-B)$$

$$= 51.08$$

$$\text{Prob} > \text{chi2} = 0.0000$$

9. Hasil Uji Multikolonieritas untuk Model Terpilih *Fixed Effect*

```
66 . corr ldr nplgross nim bopo teta size inflasi pdrb
    (obs=950)
```

| | ldr | nplgross | nim | bopo | teta | size | inflasi | pdrb |
|----------|---------|----------|---------|---------|---------|---------|---------|--------|
| ldr | 1.0000 | | | | | | | |
| nplgross | -0.0094 | 1.0000 | | | | | | |
| nim | 0.1460 | -0.1534 | 1.0000 | | | | | |
| bopo | 0.0176 | 0.1962 | -0.1128 | 1.0000 | | | | |
| teta | 0.3619 | 0.1668 | 0.0103 | -0.0716 | 1.0000 | | | |
| size | 0.0221 | 0.2411 | -0.4852 | 0.1100 | -0.0918 | 1.0000 | | |
| inflasi | -0.0530 | -0.0219 | 0.1420 | 0.0012 | -0.1447 | -0.0640 | 1.0000 | |
| pdrb | 0.0175 | -0.0593 | 0.1303 | 0.0057 | -0.0076 | -0.1542 | 0.0347 | 1.0000 |

10. Hasil Uji Heteroskedastisitas untuk Model Terpilih *Fixed Effect*

xttest3

Modified Wald test for
groupwise heteroskedasticity
in fixed effect regression
model

H0: $\sigma(i)^2 = \sigma^2$ for all i

chi2 (26) = 1064.24

Prob>chi2 =0.0000

11. Hasil Uji Auto Korelasi untuk Model Terpilih *Fixed Effect*

. xtserial ldr nplgross nim bopo ear size inflasi pdrb

Wooldridge test for autocorrelation in panel data

H0: no first order autocorrelation

F(1, 230) = 68.059

Prob > F = 0.0000

12. Hasil Uji F setelah Treatment (Model GLS)

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares

Panels: homoskedastic

Correlation: no autocorrelation

Estimated covariances = 1

Estimated autocorrelations = 0

Estimated coefficients = 8

Number of obs = 950

Number of groups = 26

Obs per group:

min = 34

avg = 36.53846

max = 37

Wald chi2(7) = 213.49

Log likelihood = -3819.168

Prob > chi2 =

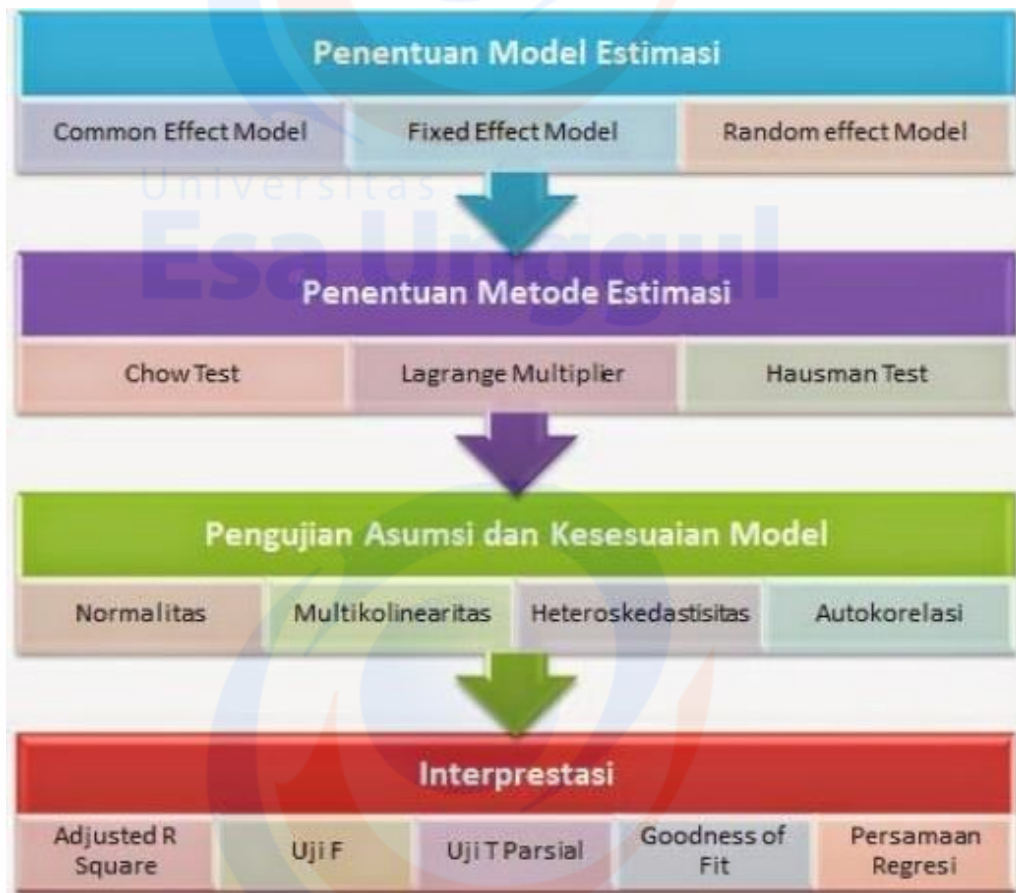
0.0000

13. Hasil Uji t setelah Treatment (Model GLS)

| ldr | Coef. | Std. Err. | z | P> z | [95% Conf. Interval] |
|----------|-----------|-----------|-------|-------|----------------------|
| nplgross | -.5922273 | .1883074 | -3.15 | 0.002 | -.961303 - .2231515 |
| nim | 1.466421 | .2212366 | 6.63 | 0.000 | 1.032806 1.900037 |
| bopo | .0490739 | .0210706 | 2.33 | 0.020 | .0077763 .0903716 |
| teta | 2.008384 | .1550959 | 12.95 | 0.000 | 1.704402 2.312366 |
| size | 3.093039 | .5805187 | 5.33 | 0.000 | 1.955243 4.230835 |
| inflasi | -.1717933 | .2752871 | -0.62 | 0.533 | -.7113462 .3677595 |
| pdrb | .0639173 | .1352589 | 0.47 | 0.637 | -.2011853 .3290199 |
| _cons | -9.510692 | 10.93837 | -0.87 | 0.385 | -30.94951 11.92812 |

Lampiran 6

PROSEDUR STATA OLEH AKBAR SUWARDI (2011)

**PENENTUAN MODEL ESTIMASI:**

Dalam metode estimasi model regresi dengan menggunakan data panel dapat dilakukan melalui tiga pendekatan, antara lain:

1. *Common Effect Model* atau *Pooled Least Square (PLS)*

Merupakan pendekatan model data panel yang paling sederhana karena hanya mengkombinasikan *data time series* dan *cross section*. Pada model ini tidak diperhatikan dimensi waktu maupun individu, sehingga diasumsikan bahwa perilaku data perusahaan sama dalam berbagai kurun waktu. Metode ini bisa menggunakan pendekatan Ordinary Least Square (OLS) atau teknik kuadrat terkecil untuk mengestimasi model data panel.

2. *Fixed Effect Model (FE)*

Model ini mengasumsikan bahwa perbedaan antar individu dapat diakomodasi dari perbedaan intersepnya. Untuk mengestimasi data panel model *Fixed Effects* menggunakan teknik *variable dummy* untuk menangkap perbedaan

intersep antar perusahaan, perbedaan intersep bisa terjadi karena perbedaan budaya kerja, manajerial, dan insentif. Namun demikian sloponya sama antar perusahaan. Model estimasi ini sering juga disebut dengan teknik *Least Squares Dummy Variable* (LSDV).

3. *Random Effect Model* (RE)

Model ini akan mengestimasi data panel dimana variabel gangguan mungkin saling berhubungan antar waktu dan antar individu. Pada model *Random Effect* perbedaan intersep diakomodasi oleh error terms masing-masing perusahaan. Keuntungan menggunakan model *Random Effect* yakni menghilangkan [heteroskedastisitas](#). Model ini juga disebut dengan *Error Component Model* (ECM) atau teknik *Generalized Least Square* (GLS) .

Penentuan Metode Estimasi Regresi Data Panel

Untuk memilih model yang paling tepat terdapat beberapa pengujian yang dapat dilakukan, antara lain:

1. Uji Chow

Chow test adalah pengujian untuk menentukan model apakah *Common Effect* (CE) ataukah *Fixed Effect* (FE) yang paling tepat digunakan dalam mengestimasi data panel.

Apabila Hasil:

H₀: Pilih PLS (CE)

H₁: Pilih FE (FE)

2. Uji Hausman

Hausman test adalah pengujian statistik untuk memilih apakah model *Fixed Effect* atau *Random Effect* yang paling tepat digunakan.

Apabila Hasil:

H₀: Pilih RE

H₁: Pilih FE

3. Uji Lagrange Multiplier

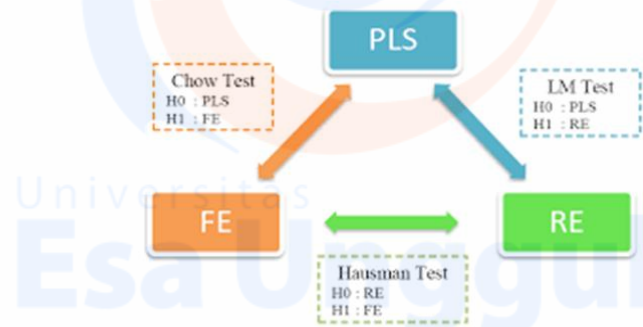
Uji Lagrange Multiplier (LM) adalah uji untuk mengetahui apakah model *Random Effect* lebih baik daripada metode *Common Effect* (PLS) digunakan.

Apabila Hasil:

H₀: Pilih PLS

H₁: Pilih RE

Dari ketiga uji untuk menentukan Metode Estimasi di atas, digambarkan dalam grafik di bawah ini:



Permasalahan-Permasalahan BLUE di Model Panel

1. Multikolinearitas

VIF dilakukan setelah melakukan regresi dengan FE atau RE

Jika nilai VIF lebih besar dari 10 atau tolerance ($1/VIF$) adalah .01 atau kurang mengindikasikan adanya multikolinearitas

2. Heteroskedastisitas

Uji heteroskedastisitas hanya dilakukan ketika menggunakan estimasi FE dan PLS.

3. Autokorelasi

Mengatasi Permasalahan Tidak BLUE di Model Panel

Mengatasi permasalahan BLUE di Model Panel tergantung model akhir apa yang kita gunakan. **KHUSUS** Model Panel menggunakan *Random Effect* (RE) kita tidak perlu menguji atau mengatasi permasalahan BLUE karena sudah menggunakan metode GLS. Jika Model Panel menggunakan *Fixed Effect* kita perlu mengkaji dengan robust dan GLS. Setelah mengkaji ulang, jika hasilnya memungkinkan sama, berarti model yang paling tepat digunakan adalah metode GLS.