

## DAFTAR PUSTAKA

- Ahsan, A., Bella, A., Kusuma, D., Thabrany, H., Ariany, R., Fattah, R. A., . . . Nugrahani, y. (2022). *Pengantar Ekonomi Kesehatan*. Jakarta: PPJK Kementerian Kesehatan Republik Indonesia.
- Akram, N., Khan, M., & Haq Padda, I. U. (2008). The Long Term Impact of Health on Economic Growth in Pakistan. *The Pakistan Development Review*, 487-500.
- Aurelya, T., Nurhayati, & Purba, S. F. (2022). Pengaruh Kondisi Sektor Kesehatan terhadap Pertumbuhan Ekonomi di Indonesia. *Jurnal STEI Ekonomi (JEMI)* , 31, 83-92.
- Bahri, S. (2018). *Metodologi Penelitian Bisnis Lengkap dengan teknik Pengolahan Data SPSS*. Yogyakarta: CV. ANDI OFFSET.
- Basuki, A. T., & Yuliandi, I. (2014). *Elektronik Data Prosesing (SPSS 15 dan EVIEWS 7)*. Yogyakarta: Danisa Media.
- Bloom, D., & Canning, D. (2003). Health as Human Capital and its Impact on Economic Performance. *Geneva Papers on Risk and Insurance*, 304-315.
- Chin, W. W. (1998). The Partial Least Square Aproach to Structural Equation Modeling. *Modern Methods fo Business Research*, 295-336.
- Ekawati, F. M., Novitasari, D. A., Dharma Putri, D. A., Fitriyani, N., & Ihyauddin, Z. (2024). Rural Indonesian adolescents' smoking behaviours during the COVID-19 pandemic: rapid survey and cotinine test of school-attend adolescents in Gunung Kidul, Yogyakarta. *Scientific Reports*, 1-11.
- Ghozali, I. (2018). *Aplikasi Analisis Multivariate Dengan Program IBM SPSS 25*. Semarang: Badan Penerbit Universitas Diponegoro.
- Ghozali, I., & Ratmono, D. (2017). *Analisis Multivariat dan Ekonometrika dengan EvIEWS 10*. Semarang: Badan Penerbit Universitas Diponegoro.
- Hasyim, A. I. (2017). *Ekonomi Makro*. Depok: Kencana Prenadamedia.
- Prananda, D., Idris, & Putri, D. Z. (2018). Dampak Kesehatan Terhadap Pertumbuhan Ekonomi di Indonesia. *Ecogen*, 1, 578-585.
- Prayogi, R., Widjanarko, B., & Husodo, B. T. (2015). Deskripsi Sikap Mahasiswa Perokok di Fakultas X Semarang Terhadap Peringatan pada Bungkus Rokok. *Jurnal Kesehatan Masyarakat (e journal)*, 3, 657-668.

- Rawadani, A. R., & Fidiana. (2018). Pendapatan Asli Daerah Kota Surabaya Sebelum Dan Sesudah Sistem Pajak Online. *Jurnal Ekonomi*, 23(3), 272.
- Sari, V. K., Chayadin, M., & Szulc, A. I. (t.thn.). Does Health Contribute to Economic Growth? An Evidence from Regional Levels in Indonesia. *Jurnal Ekonomi Pembangunan: Kajian Masalah Ekonomi dan Pembangunan*, 23, 283-294.
- Strauss, J., & Thomas, D. (1998). Health, Nutrition, and Economic Development. *Journal of Economic Literature*, 36, 766-817.
- Sugiyono. (2019). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabet.
- Sukirno, S. (2005). *Makroekonomi Modern: Perkembangan Pemikiran Dari Klasik Hingga Keyneian Baru*. Jakarta: Raja Grafindo Persada.

## LAMPIRAN

### Lampiran 1 Data Penelitian

| NAMA DAERAH      | TAHUN | X1    | X2    | X3    | X4    | Y         |
|------------------|-------|-------|-------|-------|-------|-----------|
| KAB. CILACAP     | 2013  | 62,32 | 49,12 | 19,72 | 67,86 | 81022670  |
|                  | 2014  | 65,51 | 48,27 | 20,12 | 70,1  | 83391500  |
|                  | 2015  | 77,41 | 53,87 | 21,10 | 86,3  | 88357606  |
|                  | 2016  | 74,96 | 51,26 | 21,45 | 78,56 | 92858649  |
|                  | 2017  | 74,93 | 47,33 | 23,74 | 50,77 | 95254586  |
|                  | 2018  | 76,06 | 48,37 | 23,70 | 85,02 | 98100568  |
|                  | 2019  | 74,91 | 47,11 | 23,09 | 85,2  | 100327298 |
|                  | 2020  | 72,23 | 52,08 | 24,56 | 85,2  | 90011584  |
|                  | 2021  | 65,75 | 102   | 25,07 | 84,5  | 91944587  |
|                  | 2022  | 71,97 | 43,75 | 23,93 | 92,8  | 96677843  |
|                  | 2023  | 72,77 | 32,78 | 25,05 | 76,9  | 101839740 |
| KAB. BANYUMAS    | 2013  | 62,1  | 51,98 | 18,78 | 41,5  | 27793138  |
|                  | 2014  | 63,82 | 46,99 | 19,02 | 42,9  | 29367687  |
|                  | 2015  | 75,89 | 49,28 | 21,01 | 50,4  | 31164876  |
|                  | 2016  | 71,00 | 55,31 | 22,11 | 51,84 | 33051046  |
|                  | 2017  | 72,18 | 55,09 | 23,05 | 51,83 | 35147313  |
|                  | 2018  | 72,90 | 48,14 | 22,89 | 66,1  | 37414500  |
|                  | 2019  | 72,74 | 55,45 | 22,27 | 66,1  | 39779320  |
|                  | 2020  | 70,69 | 52,52 | 22,62 | 65,8  | 39121623  |
|                  | 2021  | 65,15 | 82,00 | 24,91 | 65,2  | 40686808  |
|                  | 2022  | 72,32 | 31,16 | 23,17 | 57,8  | 43069504  |
|                  | 2023  | 70,64 | 41,28 | 24,18 | 56,6  | 45396301  |
| KAB. PURBALINGGA | 2013  | 64,56 | 52,36 | 18,29 | 62,0  | 12778311  |
|                  | 2014  | 66,77 | 53,70 | 20,09 | 63,0  | 13397712  |
|                  | 2015  | 78,85 | 55,01 | 21,87 | 67,6  | 14130612  |
|                  | 2016  | 76,91 | 57,85 | 22,09 | 63,70 | 14816429  |
|                  | 2017  | 75,99 | 52,55 | 24,22 | 68,75 | 15612285  |
|                  | 2018  | 75,62 | 60,18 | 25,67 | 66,97 | 16458708  |
|                  | 2019  | 75,13 | 48,83 | 23,58 | 68    | 17387610  |
|                  | 2020  | 72,72 | 54,64 | 23,33 | 81,3  | 17182873  |
|                  | 2021  | 65,38 | 13,00 | 25,28 | 68,6  | 17731438  |
|                  | 2022  | 75,07 | 42,09 | 26,64 | 76,5  | 18690729  |
|                  | 2023  | 72,93 | 40,14 | 26,10 | 71,1  | 19533863  |
|                  | 2013  | 67,50 | 49,68 | 20,45 | 64,54 | 11043083  |

|                      |      |       |       |       |       |            |
|----------------------|------|-------|-------|-------|-------|------------|
| KAB.<br>BANJARNEGARA | 2014 | 69,49 | 52,04 | 21,71 | 65    | 11629845   |
|                      | 2015 | 80,57 | 43,19 | 22,99 | 66,9  | 12266046   |
|                      | 2016 | 82,28 | 54,97 | 23,70 | 52,28 | 12932884   |
|                      | 2017 | 75,88 | 50,15 | 26,37 | 56,34 | 13 663 266 |
|                      | 2018 | 79,44 | 50,73 | 26,56 | 62,0  | 14438149   |
|                      | 2019 | 79,00 | 49,12 | 26,92 | 60,6  | 15246865   |
|                      | 2020 | 74,52 | 51,51 | 26,72 | 71,9  | 15045884   |
|                      | 2021 | 68,08 | 36,00 | 28,41 | 70,8  | 15536477   |
|                      | 2022 | 77,61 | 49,31 | 29,46 | 70,8  | 16359106   |
|                      | 2023 | 77,09 | 40,44 | 29,19 | 78,1  | 17173451   |
| KAB. KEBUMEN         | 2013 | 58,1  | 48,16 | 19,12 | 57,3  | 14333333   |
|                      | 2014 | 61,85 | 50,09 | 19,67 | 59,5  | 15163091   |
|                      | 2015 | 76,04 | 54,89 | 20,12 | 81,4  | 16115554   |
|                      | 2016 | 75,68 | 60,02 | 20,27 | 42,50 | 16923719   |
|                      | 2017 | 72,26 | 54,17 | 20,66 | 50,72 | 17794789   |
|                      | 2018 | 73,95 | 45,04 | 20,97 | 66,93 | 18778048   |
|                      | 2019 | 73,75 | 43,70 | 21,46 | 69,2  | 19815062   |
|                      | 2020 | 71,51 | 50,11 | 21,99 | 69,2  | 19527664   |
|                      | 2021 | 63,12 | 70,00 | 21,58 | 78,3  | 20253059   |
|                      | 2022 | 72,62 | 26,07 | 24,94 | 77,2  | 21425793   |
|                      | 2023 | 71,40 | 26,77 | 24,14 | 73,3  | 22638895   |
| KAB. PURWOREJO       | 2013 | 61,9  | 47,29 | 17,89 | 78,82 | 9870969    |
|                      | 2014 | 63,25 | 50,26 | 18,76 | 83,1  | 10312937   |
|                      | 2015 | 74,26 | 54,03 | 19,54 | 85,0  | 10862645   |
|                      | 2016 | 73,72 | 55,70 | 20,26 | 86,84 | 11421552   |
|                      | 2017 | 71,41 | 47,61 | 19,84 | 13,80 | 12023780   |
|                      | 2018 | 72,98 | 40,31 | 21,12 | 86,16 | 12664976   |
|                      | 2019 | 72,34 | 45,28 | 22,20 | 87,5  | 13353336   |
|                      | 2020 | 69,90 | 44,26 | 21,74 | 87,5  | 13138294   |
|                      | 2021 | 61,90 | 15,00 | 22,76 | 87,6  | 13573469   |
|                      | 2022 | 69,09 | 71,16 | 21,37 | 94,2  | 14300556   |
|                      | 2023 | 71,36 | 37,07 | 21,32 | 82,6  | 15025908   |
| KAB. WONOSOBO        | 2013 | 64,5  | 36,61 | 24,51 | 71,2  | 10333757   |
|                      | 2014 | 66,35 | 36,93 | 25,67 | 73,45 | 10828168   |
|                      | 2015 | 80,30 | 39,41 | 25,99 | 76,2  | 11334080   |
|                      | 2016 | 82,80 | 38,11 | 26,09 | 69,85 | 11941198   |
|                      | 2017 | 79,41 | 35,46 | 27,49 | 74,41 | 12436048   |
|                      | 2018 | 78,93 | 39,27 | 27,00 | 77,14 | 13065841   |
|                      | 2019 | 78,10 | 39,80 | 26,83 | 78,3  | 13793040   |

|               |      |       |       |       |       |          |
|---------------|------|-------|-------|-------|-------|----------|
|               | 2020 | 73,92 | 35,03 | 30,69 | 86,3  | 13566176 |
|               | 2021 | 66,68 | 28,00 | 30,65 | 85,7  | 14064764 |
|               | 2022 | 74,70 | 36,05 | 32,03 | 38,4  | 14770503 |
|               | 2023 | 77,65 | 23,82 | 31,63 | 78,8  | 15405984 |
| KAB. MAGELANG | 2013 | 60,0  | 49,26 | 18,00 | 72,34 | 17020755 |
|               | 2014 | 62,65 | 50,09 | 18,56 | 74,0  | 17936288 |
|               | 2015 | 73,88 | 54,87 | 19,96 | 76,0  | 18864651 |
|               | 2016 | 75,42 | 56,89 | 20,81 | 13,19 | 19882244 |
|               | 2017 | 73,87 | 52,56 | 23,54 | 70,64 | 20974801 |
|               | 2018 | 73,80 | 44,28 | 20,34 | 63,27 | 22082795 |
|               | 2019 | 73,33 | 48,70 | 21,60 | 69,9  | 23253154 |
|               | 2020 | 69,29 | 47,20 | 23,95 | 82,9  | 22865151 |
|               | 2021 | 65,49 | 45,00 | 25,14 | 77,3  | 23661713 |
|               | 2022 | 73,92 | 22,41 | 27,02 | 75,5  | 24953184 |
|               | 2023 | 74,61 | 32,73 | 27,40 | 77,9  | 26211563 |
|               | 2024 | 74,61 | 32,73 | 27,40 | 77,9  | 26211563 |
| KAB. BOYOLALI | 2013 | 61,4  | 54,97 | 18,76 | 52,3  | 16266498 |
|               | 2014 | 64,12 | 53,60 | 19,23 | 58,1  | 17148350 |
|               | 2015 | 76,78 | 71,15 | 20,34 | 52,6  | 18170383 |
|               | 2016 | 74,41 | 62,30 | 20,36 | 57,87 | 19139359 |
|               | 2017 | 72,95 | 49,65 | 20,73 | 58,30 | 20248849 |
|               | 2018 | 72,85 | 58,19 | 20,00 | 61,98 | 21406268 |
|               | 2019 | 71,81 | 62,88 | 19,71 | 63,8  | 22681097 |
|               | 2020 | 66,75 | 54,10 | 20,61 | 64,6  | 22409732 |
|               | 2021 | 61,17 | 36,00 | 21,62 | 75,8  | 23447366 |
|               | 2022 | 72,64 | 41,56 | 23,43 | 79,1  | 24931304 |
|               | 2023 | 71,90 | 43,79 | 21,84 | 78,9  | 26334296 |
|               | 2024 | 71,90 | 43,79 | 21,84 | 78,9  | 26334296 |
| KAB. KLATEN   | 2013 | 60,0  | 62,68 | 14,56 | 70,25 | 20241429 |
|               | 2014 | 60,96 | 56,56 | 15,34 | 72,3  | 21424522 |
|               | 2015 | 69,98 | 67,07 | 15,98 | 75,4  | 22558976 |
|               | 2016 | 66,75 | 59,75 | 16,07 | 75,59 | 23725740 |
|               | 2017 | 69,26 | 57,40 | 17,80 | 82,45 | 24993103 |
|               | 2018 | 68,13 | 62,46 | 17,89 | 98,36 | 26360649 |
|               | 2019 | 69,79 | 51,53 | 17,49 | 82,2  | 27805993 |
|               | 2020 | 65,90 | 55,10 | 17,12 | 87,9  | 27480359 |
|               | 2021 | 62,01 | 25,00 | 17,75 | 86,3  | 28531108 |
|               | 2022 | 67,21 | 27,10 | 17,13 | 87,9  | 30214981 |
|               | 2023 | 65,71 | 40,14 | 17,30 | 83,0  | 31938326 |
|               | 2024 | 65,71 | 40,14 | 17,30 | 83,0  | 31938326 |
| KAB SUKOHARJO | 2013 | 55,43 | 52,89 | 14,89 | 50,1  | 19401889 |
|               | 2014 | 59,63 | 48,12 | 15,21 | 54,7  | 20449009 |

|                     |      |       |       |       |       |          |
|---------------------|------|-------|-------|-------|-------|----------|
|                     | 2015 | 68,34 | 59,04 | 15,34 | 63,4  | 21612078 |
|                     | 2016 | 67,34 | 65,28 | 15,50 | 37,47 | 22847982 |
|                     | 2017 | 67,76 | 66,00 | 15,52 | 41,01 | 24163939 |
|                     | 2018 | 67,22 | 58,81 | 15,78 | 75,85 | 25564065 |
|                     | 2019 | 66,53 | 57,55 | 16,02 | 75,1  | 27076442 |
|                     | 2020 | 66,31 | 51,09 | 15,32 | 75,3  | 26616503 |
|                     | 2021 | 58,21 | 24,00 | 15,09 | 78,9  | 27634117 |
|                     | 2022 | 66,39 | 54,82 | 14,91 | 74,0  | 29185353 |
|                     | 2023 | 64,14 | 38,40 | 16,95 | 65,2  | 30661916 |
| KAB. WONOGIRI       | 2013 | 60,23 | 48,01 | 16,78 | 52,4  | 15303280 |
|                     | 2014 | 64,16 | 49,72 | 17,21 | 55,5  | 16107795 |
|                     | 2015 | 79,83 | 65,64 | 18,36 | 58,4  | 16977198 |
|                     | 2016 | 79,34 | 52,78 | 18,85 | 53,48 | 17869145 |
|                     | 2017 | 76,39 | 43,52 | 20,03 | 60,99 | 18818939 |
|                     | 2018 | 76,42 | 54,32 | 20,67 | 62,22 | 19837022 |
|                     | 2019 | 76,92 | 58,42 | 21,33 | 48,2  | 20856209 |
|                     | 2020 | 62,83 | 43,28 | 18,12 | 49,3  | 20563144 |
|                     | 2021 | 63,72 | 41,00 | 21,03 | 49,0  | 21251165 |
|                     | 2022 | 71,48 | 62,12 | 19,87 | 60,7  | 22448630 |
|                     | 2023 | 73,25 | 33,06 | 20,54 | 51,5  | 23566879 |
| KAB.<br>KARANGANYAR | 2013 | 61,23 | 52,88 | 13,45 | 51,2  | 19256516 |
|                     | 2014 | 63,20 | 54,11 | 14,21 | 54,3  | 20262444 |
|                     | 2015 | 74,95 | 57,34 | 15,67 | 60,3  | 21286287 |
|                     | 2016 | 71,55 | 61,49 | 15,91 | 23,20 | 22436293 |
|                     | 2017 | 73,39 | 54,70 | 16,99 | 22,82 | 23731952 |
|                     | 2018 | 70,45 | 55,04 | 17,52 | 62,33 | 25150277 |
|                     | 2019 | 70,56 | 59,89 | 18,13 | 64,1  | 26599744 |
|                     | 2020 | 73,28 | 54,22 | 16,04 | 69,0  | 26103228 |
|                     | 2021 | 62,16 | 20,00 | 16,87 | 71,1  | 27039607 |
|                     | 2022 | 71,07 | 39,89 | 17,64 | 72,5  | 28624989 |
|                     | 2023 | 69,18 | 40,52 | 16,33 | 49,3  | 30208236 |
| KAB. SRAGEN         | 2013 | 63,45 | 58,36 | 16,72 | 60,9  | 19102181 |
|                     | 2014 | 65,31 | 57,02 | 17,15 | 62,0  | 20169824 |
|                     | 2015 | 75,90 | 66,08 | 18,50 | 66,9  | 21390871 |
|                     | 2016 | 77,47 | 64,34 | 18,64 | 66,46 | 22625821 |
|                     | 2017 | 73,18 | 54,74 | 18,24 | 61,44 | 23977207 |
|                     | 2018 | 72,54 | 54,28 | 18,23 | 52,46 | 25356459 |
|                     | 2019 | 72,58 | 60,92 | 17,64 | 59,7  | 26853059 |
|                     | 2020 | 71,70 | 50,60 | 18,47 | 60,9  | 26367261 |

|               |      |       |       |       |       |          |
|---------------|------|-------|-------|-------|-------|----------|
|               | 2021 | 63,23 | 33,00 | 18,10 | 64,1  | 27355145 |
|               | 2022 | 71,72 | 44,18 | 17,72 | 74,3  | 28929808 |
|               | 2023 | 70,30 | 31,96 | 17,71 | 67,6  | 30442192 |
| KAB. GROBOGAN | 2013 | 60,12 | 47,34 | 17,89 | 57,8  | 14474728 |
|               | 2014 | 65,80 | 46,35 | 18,67 | 61,8  | 15064456 |
|               | 2015 | 80,37 | 62,03 | 19,00 | 67,7  | 15962619 |
|               | 2016 | 78,86 | 61,30 | 19,33 | 10,18 | 16682629 |
|               | 2017 | 76,50 | 47,56 | 21,29 | 11,12 | 17659254 |
|               | 2018 | 77,92 | 56,56 | 21,99 | 71,59 | 18688571 |
|               | 2019 | 77,67 | 54,17 | 22,31 | 66,2  | 19692631 |
|               | 2020 | 72,46 | 47,70 | 22,48 | 47,0  | 19383027 |
|               | 2021 | 64,73 | 28,00 | 21,17 | 51,9  | 20115533 |
|               | 2022 | 75,16 | 51,97 | 23,82 | 73,9  | 21318155 |
|               | 2023 | 73,21 | 48,45 | 21,74 | 49,6  | 22380303 |
| KAB. BLORA    | 2013 | 65,43 | 49,66 | 18,78 | 62,3  | 11712504 |
|               | 2014 | 67,35 | 45,66 | 19,23 | 70,8  | 12227201 |
|               | 2015 | 82,04 | 47,07 | 20,64 | 73,8  | 12882587 |
|               | 2016 | 79,91 | 55,39 | 20,86 | 42,72 | 15914663 |
|               | 2017 | 79,97 | 33,88 | 21,93 | 45,63 | 16866640 |
|               | 2018 | 77,12 | 43,59 | 22,12 | 68,68 | 17605216 |
|               | 2019 | 76,26 | 48,08 | 23,67 | 70,2  | 18318415 |
|               | 2020 | 77,77 | 42,88 | 24,23 | 71,9  | 17483886 |
|               | 2021 | 64,71 | 32,00 | 23,38 | 75,3  | 18126446 |
|               | 2022 | 76,21 | 56,47 | 24,24 | 75,4  | 18608610 |
|               | 2023 | 78,19 | 28,13 | 23,09 | 70,1  | 19184918 |
| KAB. REMBANG  | 2013 | 64,32 | 56,15 | 16,78 | 56,8  | 9780750  |
|               | 2014 | 65,06 | 59,28 | 17,28 | 60,2  | 10284274 |
|               | 2015 | 80,20 | 61,05 | 18,21 | 63,9  | 10850269 |
|               | 2016 | 81,31 | 59,97 | 18,48 | 55,77 | 11423008 |
|               | 2017 | 77,28 | 48,51 | 20,80 | 52,86 | 12220172 |
|               | 2018 | 77,70 | 56,07 | 21,34 | 60,46 | 12939682 |
|               | 2019 | 77,27 | 53,01 | 20,00 | 68,1  | 13612335 |
|               | 2020 | 71,29 | 44,96 | 20,16 | 74,9  | 13409631 |
|               | 2021 | 62,19 | 14,00 | 21,99 | 84,0  | 13925516 |
|               | 2022 | 74,95 | 40,14 | 22,39 | 88,8  | 14698843 |
|               | 2023 | 73,22 | 28,02 | 20,98 | 80,9  | 15463552 |
| KAB. PATI     | 2013 | 61,90 | 63,73 | 15,65 | 61,2  | 22329693 |
|               | 2014 | 64,14 | 66,05 | 16,75 | 67,7  | 23365213 |
|               | 2015 | 78,06 | 72,66 | 17,34 | 67,0  | 24770325 |

|             |      |       |       |       |       |            |
|-------------|------|-------|-------|-------|-------|------------|
|             | 2016 | 77,27 | 72,00 | 17,89 | 75,00 | 26130205   |
|             | 2017 | 75,63 | 62,17 | 17,57 | 76,84 | 27612445   |
|             | 2018 | 76,18 | 57,78 | 18,20 | 76,56 | 29189879   |
|             | 2019 | 72,66 | 68,76 | 19,56 | 79,8  | 30885378   |
|             | 2020 | 72,54 | 69,78 | 20,17 | 81,0  | 30527473   |
|             | 2021 | 61,40 | 28,00 | 19,18 | 81,1  | 31559078   |
|             | 2022 | 73,16 | 50,59 | 20,20 | 84,5  | 33312381   |
|             | 2023 | 71,45 | 53,40 | 18,79 | 59,3  | 34984662   |
| KAB. KUDUS  | 2013 | 60    | 52,93 | 15,14 | 40,0  | 59944556   |
|             | 2014 | 60,55 | 58,20 | 16,32 | 43,3  | 62600680   |
|             | 2015 | 71,94 | 59,72 | 17,23 | 13,1  | 65029937   |
|             | 2016 | 65,90 | 62,81 | 16,78 | 19,40 | 66679583   |
|             | 2017 | 66,21 | 53,12 | 17,57 | 62,51 | 68821162   |
|             | 2018 | 66,90 | 58,50 | 17,89 | 72,13 | 71 048 973 |
|             | 2019 | 68,78 | 55,16 | 18,34 | 49,7  | 73241777   |
|             | 2020 | 65,24 | 54,15 | 17,80 | 65,0  | 70964725   |
|             | 2021 | 56,87 | 15,00 | 17,47 | 48,6  | 69872178   |
|             | 2022 | 66,44 | 67,64 | 17,53 | 50,3  | 71416927   |
|             | 2023 | 63,29 | 40,84 | 19,61 | 44,7  | 72984396   |
| KAB. JEPARA | 2013 | 62,00 | 58,69 | 17,00 | 50,1  | 15623738   |
|             | 2014 | 64,00 | 58,78 | 17,67 | 53,2  | 16374715   |
|             | 2015 | 77,42 | 70,87 | 18,53 | 73,3  | 17210365   |
|             | 2016 | 76,77 | 68,74 | 19,01 | 60,55 | 18080634   |
|             | 2017 | 74,89 | 51,32 | 17,75 | 61,35 | 19055335   |
|             | 2018 | 69,68 | 55,97 | 17,92 | 69,08 | 20170255   |
|             | 2019 | 69,65 | 61,97 | 18,34 | 70,7  | 21384282   |
|             | 2020 | 72,04 | 55,56 | 18,52 | 74,6  | 20973089   |
|             | 2021 | 60,48 | 50,00 | 20,52 | 74,2  | 21944232   |
|             | 2022 | 71,48 | 54,13 | 19,84 | 76,0  | 23249852   |
|             | 2023 | 71,51 | 33,89 | 19,18 | 82,8  | 24451039   |
| KAB. DEMAK  | 2013 | 58,50 | 65,65 | 17,88 | 41,4  | 13499226   |
|             | 2014 | 59,57 | 59,57 | 18,12 | 46,7  | 14078419   |
|             | 2015 | 71,87 | 70,44 | 18,45 | 47,5  | 14912999   |
|             | 2016 | 70,59 | 69,48 | 18,87 | 57,73 | 15672482   |
|             | 2017 | 70,67 | 56,23 | 19,81 | 59,85 | 16584124   |
|             | 2018 | 69,57 | 56,48 | 19,98 | 65,87 | 17479877   |
|             | 2019 | 69,20 | 69,36 | 20,56 | 65,0  | 18417009   |
|             | 2020 | 68,39 | 54,45 | 20,74 | 68,5  | 18374561   |
|             | 2021 | 60,43 | 48,00 | 21,86 | 68,5  | 18856415   |

|                 |      |       |       |       |       |          |
|-----------------|------|-------|-------|-------|-------|----------|
|                 | 2022 | 71,08 | 38,87 | 22,52 | 75,0  | 19846430 |
|                 | 2023 | 67,2  | 49,27 | 19,94 | 63,5  | 20839746 |
| KAB. SEMARANG   | 2013 | 62,22 | 52,78 | 18,76 | 43,2  | 25758121 |
|                 | 2014 | 63,36 | 53,20 | 19,20 | 47,9  | 27264112 |
|                 | 2015 | 71,73 | 56,61 | 20,12 | 60,7  | 28768327 |
|                 | 2016 | 72,11 | 53,57 | 21,88 | 60,7  | 30292468 |
|                 | 2017 | 68,82 | 45,37 | 20,92 | 51,40 | 32002984 |
|                 | 2018 | 69,90 | 41,98 | 21,92 | 50,73 | 33817679 |
|                 | 2019 | 69,52 | 55,63 | 20,34 | 55,4  | 35638961 |
|                 | 2020 | 69,52 | 53,73 | 21,76 | 56,7  | 34688037 |
|                 | 2021 | 61,53 | 46,00 | 22,84 | 57,6  | 35948862 |
|                 | 2022 | 69,39 | 67,07 | 23,41 | 57,5  | 37857918 |
|                 | 2023 | 67,57 | 34,37 | 23,91 | 24,5  | 39651856 |
|                 | 2023 | 67,57 | 34,37 | 23,91 | 24,5  | 39651856 |
| KAB. TEMANGGUNG | 2013 | 63,45 | 43,76 | 21,34 | 78,9  | 11299342 |
|                 | 2014 | 65,66 | 42,73 | 24,5  | 81,2  | 11867679 |
|                 | 2015 | 82,30 | 47,28 | 27,67 | 83,7  | 12489394 |
|                 | 2016 | 78,77 | 45,42 | 29,09 | 80,84 | 13116363 |
|                 | 2017 | 77,57 | 43,35 | 27,11 | 80,40 | 13776254 |
|                 | 2018 | 78,97 | 36,64 | 28,45 | 82,84 | 14483255 |
|                 | 2019 | 77,21 | 40,66 | 29,86 | 86,3  | 15214058 |
|                 | 2020 | 76,73 | 41,43 | 30,72 | 74,1  | 14890755 |
|                 | 2021 | 66,20 | 40,00 | 29,93 | 83,8  | 15387930 |
|                 | 2022 | 74,67 | 74,94 | 30,68 | 84,6  | 16187374 |
|                 | 2023 | 76    | 27,95 | 30,61 | 53,0  | 16997526 |
|                 | 2023 | 76    | 27,95 | 30,61 | 53,0  | 16997526 |
| KAB. KENDAL     | 2013 | 55,67 | 49,68 | 17,89 | 51,2  | 22386123 |
|                 | 2014 | 59,85 | 48,86 | 19,20 | 57,9  | 23536834 |
|                 | 2015 | 73,03 | 55,97 | 19,89 | 71,5  | 24762325 |
|                 | 2016 | 73,47 | 58,35 | 20,39 | 44,46 | 26139414 |
|                 | 2017 | 70,10 | 48,67 | 21,07 | 46,04 | 27649777 |
|                 | 2018 | 71,18 | 55,59 | 21,34 | 73,34 | 14483255 |
|                 | 2019 | 71,36 | 63,94 | 20,01 | 52,5  | 15214058 |
|                 | 2020 | 66,15 | 44,26 | 20,61 | 55,3  | 14890755 |
|                 | 2021 | 61,90 | 23,00 | 21,57 | 55,1  | 31632276 |
|                 | 2022 | 73,23 | 29,61 | 23,45 | 63,0  | 33428957 |
|                 | 2023 | 71,62 | 26,76 | 24,63 | 63,3  | 35286233 |
| KAB. BATANG     | 2013 | 60,01 | 59,89 | 18,90 | 52,0  | 11104696 |
|                 | 2014 | 62,98 | 59,19 | 19,34 | 56,0  | 11693897 |
|                 | 2015 | 77,62 | 56,94 | 19,79 | 41,8  | 12328239 |
|                 | 2016 | 74,53 | 57,62 | 19,06 | 39,38 | 12948191 |

|                 |      |       |       |       |       |          |
|-----------------|------|-------|-------|-------|-------|----------|
|                 | 2017 | 73,97 | 51,26 | 21,00 | 46,27 | 13667079 |
|                 | 2018 | 73,90 | 56,10 | 20,56 | 53,80 | 14448625 |
|                 | 2019 | 72,99 | 52,28 | 21,43 | 57,8  | 15226786 |
|                 | 2020 | 68,59 | 54,71 | 21,71 | 62,3  | 15031083 |
|                 | 2021 | 60,50 | 16,00 | 22,77 | 63,1  | 15764265 |
|                 | 2022 | 73,53 | 38,27 | 23,44 | 64,3  | 16704986 |
|                 | 2023 | 70,45 | 29,96 | 25,55 | 47,3  | 17629389 |
| KAB. PEKALONGAN | 2013 | 58,00 | 58,51 | 16,12 | 35,6  | 12034805 |
|                 | 2014 | 59,30 | 59,86 | 16,78 | 37,3  | 12630368 |
|                 | 2015 | 69,69 | 56,06 | 17,45 | 42,9  | 13234564 |
|                 | 2016 | 66,86 | 54,89 | 17,62 | 41,59 | 13921651 |
|                 | 2017 | 68,66 | 43,08 | 18,78 | 38,36 | 14679128 |
|                 | 2018 | 69,06 | 48,36 | 18,34 | 44,52 | 15525050 |
|                 | 2019 | 71,00 | 55,58 | 19,00 | 57,2  | 16356350 |
|                 | 2020 | 68,86 | 43,35 | 19,45 | 56,2  | 16047511 |
|                 | 2021 | 58,81 | 39,00 | 20,22 | 83,8  | 16615065 |
|                 | 2022 | 69,44 | 34,52 | 21,64 | 68,0  | 17463415 |
|                 | 2023 | 65,91 | 37,42 | 20,97 | 69,7  | 18361079 |
| KAB. PEMALANG   | 2013 | 61,21 | 53,30 | 17,89 | 50,2  | 13172063 |
|                 | 2014 | 62,64 | 48,04 | 18,90 | 56,6  | 13898669 |
|                 | 2015 | 75,29 | 56,59 | 19,25 | 57,9  | 14673696 |
|                 | 2016 | 75,16 | 51,87 | 20,35 | 24,20 | 15469800 |
|                 | 2017 | 75,59 | 47,52 | 20,82 | 21,98 | 16336984 |
|                 | 2018 | 74,64 | 42,11 | 21,34 | 23,32 | 17265888 |
|                 | 2019 | 71,75 | 42,29 | 21,56 | 36,4  | 18267199 |
|                 | 2020 | 69,64 | 38,17 | 22,06 | 36,6  | 18155597 |
|                 | 2021 | 72,39 | 61,00 | 22,82 | 58,7  | 18933194 |
|                 | 2022 | 75,10 | 28,12 | 23,86 | 52,8  | 19895235 |
|                 | 2023 | 73,50 | 32,19 | 23,41 | 56,7  | 20719581 |
| KAB. TEGAL      | 2013 | 58,57 | 55,19 | 17,82 | 44,2  | 18050291 |
|                 | 2014 | 59,81 | 49,22 | 18,12 | 47,4  | 18958841 |
|                 | 2015 | 69,82 | 51,57 | 19,56 | 33,4  | 19999475 |
|                 | 2016 | 67,27 | 56,58 | 19,57 | 75,38 | 21182917 |
|                 | 2017 | 71,27 | 51,70 | 18,95 | 51,22 | 22322100 |
|                 | 2018 | 70,90 | 50,88 | 18,90 | 80,01 | 23552548 |
|                 | 2019 | 71,82 | 53,93 | 18,31 | 51,2  | 24861495 |
|                 | 2020 | 69,68 | 43,40 | 19,37 | 50,4  | 24492624 |
|                 | 2021 | 61,09 | 44,00 | 21,31 | 78,7  | 25401911 |
|                 | 2022 | 69,63 | 34,17 | 21,72 | 83,2  | 26705267 |

|                |      |       |        |       |       |          |
|----------------|------|-------|--------|-------|-------|----------|
|                | 2023 | 67,51 | 37,93  | 20,14 | 60,0  | 28023033 |
| KAB. BREBES    | 2013 | 60,09 | 48,43  | 19,89 | 63,4  | 23812056 |
|                | 2014 | 62,30 | 48,70  | 21,23 | 68,3  | 25074171 |
|                | 2015 | 74,35 | 54,07  | 22,65 | 67,5  | 26572834 |
|                | 2016 | 77,68 | 54,73  | 23,25 | 70,87 | 27930986 |
|                | 2017 | 77,05 | 44,07  | 23,45 | 82,29 | 29509206 |
|                | 2018 | 74,85 | 50,34  | 23,40 | 54,68 | 31060106 |
|                | 2019 | 74,67 | 46,68  | 23,12 | 58,3  | 32847862 |
|                | 2020 | 72,83 | 46,40  | 24,06 | 62,3  | 32693080 |
|                | 2021 | 62,30 | 61,00  | 25,15 | 65,0  | 33533328 |
|                | 2022 | 74,84 | 35,55  | 26,06 | 84,0  | 35414209 |
|                | 2023 | 72,35 | 37,16  | 25,57 | 69,6  | 36739154 |
|                | 2023 | 72,35 | 37,16  | 25,57 | 69,6  | 36739154 |
| KOTA MAGELANG  | 2013 | 51,45 | 50,57  | 17,00 | 55,1  | 4755092  |
|                | 2014 | 54,26 | 59,13  | 17,89 | 58,9  | 4992112  |
|                | 2015 | 66,78 | 53,81  | 18,23 | 48,3  | 5247341  |
|                | 2016 | 61,36 | 52,68  | 18,59 | 57,61 | 5521525  |
|                | 2017 | 62,02 | 49,49  | 18,80 | 87,24 | 5820532  |
|                | 2018 | 62,52 | 52,34  | 18,73 | 55,03 | 6138622  |
|                | 2019 | 62,68 | 51,97  | 18,92 | 69,0  | 6470539  |
|                | 2020 | 62,02 | 54,16  | 19,84 | 69,0  | 6312054  |
|                | 2021 | 53,85 | 10,00  | 18,09 | 59,6  | 6513894  |
|                | 2022 | 61,15 | 100,00 | 20,27 | 35,5  | 6889452  |
|                | 2023 | 58,02 | 44,68  | 20,39 | 53,2  | 7264923  |
|                | 2023 | 58,02 | 44,68  | 20,39 | 53,2  | 7264923  |
| KOTA SURAKARTA | 2013 | 50,00 | 45,60  | 14,56 | 70    | 25631681 |
|                | 2014 | 52,50 | 47,72  | 15,12 | 71,0  | 26984358 |
|                | 2015 | 62,46 | 60,25  | 16,78 | 52,4  | 28453493 |
|                | 2016 | 58,10 | 45,38  | 16,94 | 78,24 | 29975873 |
|                | 2017 | 57,91 | 45,31  | 16,41 | 77,36 | 31685480 |
|                | 2018 | 56,45 | 48,63  | 16,12 | 80,28 | 33505900 |
|                | 2019 | 57,32 | 53,16  | 15,00 | 79,6  | 35441107 |
|                | 2020 | 55,29 | 51,08  | 15,03 | 80,6  | 34815965 |
|                | 2021 | 52,53 | 15,00  | 14,55 | 83,0  | 36211248 |
|                | 2022 | 59,23 | 86,28  | 14,65 | 85,5  | 38475988 |
|                | 2023 | 55,43 | 40,42  | 16,38 | 71,6  | 40620314 |
|                | 2023 | 55,43 | 40,42  | 16,38 | 71,6  | 40620314 |
| KOTA SALATIGA  | 2013 | 52,31 | 60,61  | 15,34 | 42,21 | 6989045  |
|                | 2014 | 55,17 | 56,11  | 16,90 | 43,4  | 7378042  |
|                | 2015 | 64,62 | 54,77  | 17,31 | 44,5  | 7759181  |
|                | 2016 | 60,43 | 54,04  | 17,65 | 66,71 | 8168241  |
|                | 2017 | 60,22 | 44,67  | 19,72 | 64,84 | 8624240  |

|                 |      |       |        |       |       |            |
|-----------------|------|-------|--------|-------|-------|------------|
|                 | 2018 | 61,17 | 53,53  | 20,74 | 52,71 | 9127857    |
|                 | 2019 | 59,39 | 55,20  | 21,20 | 61,4  | 9666446    |
|                 | 2020 | 59,80 | 53,51  | 21,35 | 70,0  | 9503711    |
|                 | 2021 | 56,36 | 10,00  | 17,65 | 73,7  | 9821995    |
|                 | 2022 | 63,72 | 100,00 | 19,41 | 78,6  | 10365438   |
|                 | 2023 | 61,41 | 34,95  | 20,56 | 26,8  | 10918688   |
| KOTA SEMARANG   | 2013 | 53    | 47,74  | 13,44 | 56,76 | 96 985 402 |
|                 | 2014 | 55,81 | 47,96  | 13,98 | 57,6  | 103109874  |
|                 | 2015 | 62,75 | 54,14  | 14,32 | 57,3  | 109110689  |
|                 | 2016 | 60,61 | 50,97  | 14,74 | 69,31 | 115542560  |
|                 | 2017 | 59,66 | 44,38  | 13,26 | 72,13 | 123279891  |
|                 | 2018 | 60,14 | 47,59  | 15,67 | 88,85 | 131266362  |
|                 | 2019 | 59,28 | 50,45  | 16,20 | 78,0  | 140199517  |
|                 | 2020 | 64,12 | 45,37  | 15,55 | 71,3  | 137601979  |
|                 | 2021 | 54,72 | 56,00  | 16,34 | 71,9  | 144704571  |
|                 | 2022 | 63,55 | 40,84  | 14,32 | 73,2  | 152995411  |
|                 | 2023 | 56,09 | 43,86  | 15,14 | 81,3  | 161849112  |
| KOTA PEKALONGAN | 2013 | 53    | 40,51  | 14,35 | 60,9  | 5456196    |
|                 | 2014 | 53,13 | 55,30  | 15,82 | 61,5  | 5755282    |
|                 | 2015 | 66,68 | 67,85  | 16,00 | 59,5  | 6043095    |
|                 | 2016 | 65,43 | 71,05  | 16,35 | 89,40 | 6367272    |
|                 | 2017 | 63,65 | 45,90  | 17,47 | 42,80 | 6706278    |
|                 | 2018 | 64,07 | 64,56  | 16,29 | 69,59 | 7087915    |
|                 | 2019 | 61,82 | 59,96  | 15,80 | 57,2  | 7477425    |
|                 | 2020 | 65,28 | 46,21  | 17,65 | 53,4  | 7337833    |
|                 | 2021 | 53,60 | 62,00  | 17,69 | 54,9  | 7601486    |
|                 | 2022 | 66,16 | 99,53  | 18,37 | 81,8  | 8039459    |
|                 | 2023 | 61,59 | 43,57  | 17,41 | 58,1  | 8476545    |
| KOTA TEGAL      | 2013 | 52,34 | 51,16  | 15,66 | 55,0  | 8084175    |
|                 | 2014 | 55,51 | 47,42  | 16,21 | 56,0  | 8491325    |
|                 | 2015 | 66,31 | 56,08  | 17,89 | 68,0  | 8953879    |
|                 | 2016 | 66,18 | 71,51  | 18,98 | 67,75 | 9445030    |
|                 | 2017 | 64,48 | 62,04  | 20,17 | 50,73 | 10006943   |
|                 | 2018 | 63,89 | 53,76  | 19,23 | 60,37 | 10594340   |
|                 | 2019 | 65,81 | 54,48  | 18,89 | 45,4  | 11205782   |
|                 | 2020 | 64,34 | 52,78  | 20,40 | 59,8  | 10949122   |
|                 | 2021 | 54,20 | 42,00  | 19,11 | 66,7  | 11290268   |
|                 | 2022 | 66,21 | 99,37  | 20,19 | 65,9  | 11873200   |
|                 | 2023 | 61,85 | 35,18  | 17,87 | 51,5  | 12468605   |

## Lampiran 2 Varian Data

|                | LOGY?    | X1?       | X2?      | X3?      | X4?       |
|----------------|----------|-----------|----------|----------|-----------|
| Mean           | 16.83023 | 68.38086  | 50.05221 | 20.21831 | 63.37914  |
| Median         | 16.76531 | 69.44000  | 51.09000 | 19.84000 | 64.30000  |
| Maximum        | 18.90218 | 82.80000  | 102.0000 | 32.03000 | 98.36000  |
| Minimum        | 15.37473 | 50.00000  | 10.00000 | 13.26000 | 10.18000  |
| Std. Dev.      | 0.641256 | 7.033823  | 12.97037 | 3.573600 | 15.43842  |
| Skewness       | 0.782103 | -0.285663 | 0.197776 | 0.777292 | -0.681519 |
| Kurtosis       | 4.225718 | 2.318078  | 5.704847 | 3.630783 | 3.752889  |
| Jarque-Bera    | 63.35054 | 12.69589  | 119.8739 | 45.15119 | 38.89648  |
| Probability    | 0.000000 | 0.001750  | 0.000000 | 0.000000 | 0.000000  |
| Sum            | 6479.637 | 26326.63  | 19270.10 | 7784.050 | 24400.97  |
| Sum Sq. Dev.   | 157.9044 | 18998.27  | 64600.50 | 4903.917 | 91524.41  |
| Observations   | 385      | 385       | 385      | 385      | 385       |
| Cross sections | 35       | 35        | 35       | 35       | 35        |

## Lampiran 3 Uji Chow

Redundant Fixed Effects Tests

Pool: WILAYAH

Test cross-section fixed effects

| Effects Test             | Statistic   | d.f.     | Prob.  |
|--------------------------|-------------|----------|--------|
| Cross-section F          | 467.161208  | (34,346) | 0.0000 |
| Cross-section Chi-square | 1481.536176 | 34       | 0.0000 |

Cross-section fixed effects test equation:

Dependent Variabel: LOGY?

Method: Panel Least Squares

Date: 07/30/24 Time: 11:03

Sample: 1 11

Included observations: 11

Cross-sections included: 35

Total pool (balanced) observations: 385

| Variabel              | Coefficient | Std. Error         | t-Statistic | Prob.  |
|-----------------------|-------------|--------------------|-------------|--------|
| C                     | 16.69939    | 0.358929           | 46.52565    | 0.0000 |
| X1?                   | 0.013817    | 0.005678           | 2.433582    | 0.0154 |
| X2?                   | -0.006108   | 0.002672           | -2.286268   | 0.0228 |
| X3?                   | -0.044077   | 0.011834           | -3.724451   | 0.0002 |
| X4?                   | 0.006042    | 0.002131           | 2.835446    | 0.0048 |
| Root MSE              | 0.623820    | R-squared          | 0.051178    |        |
| Mean dependent var    | 16.83023    | Adjusted R-squared | 0.041191    |        |
| S.D. dependent var    | 0.641256    | S.E. of regression | 0.627910    |        |
| Akaike info criterion | 1.920063    | Sum squared resid  | 149.8231    |        |
| Schwarz criterion     | 1.971404    | Log likelihood     | -364.6121   |        |
| Hannan-Quinn criter.  | 1.940425    | F-statistic        | 5.124188    |        |
| Durbin-Watson stat    | 0.064379    | Prob(F-statistic)  | 0.000496    |        |

## Lampiran 4 Uji Hausman

Correlated Random Effects - Hausman Test

Pool: WILAYAH

Test cross-section random effects

| Test Summary         | Chi-Sq.<br>Statistic | Chi-Sq. d.f. | Prob.  |
|----------------------|----------------------|--------------|--------|
| Cross-section random | 9.874356             | 4            | 0.0426 |

Cross-section random effects test comparisons:

| Variabel | Fixed     | Random    | Var(Diff.) | Prob.  |
|----------|-----------|-----------|------------|--------|
| X1?      | 0.003531  | 0.003564  | 0.000000   | 0.3798 |
| X2?      | -0.002558 | -0.002574 | 0.000000   | 0.0693 |
| X3?      | 0.051708  | 0.050914  | 0.000000   | 0.0021 |
| X4?      | 0.001196  | 0.001228  | 0.000000   | 0.0596 |

Cross-section random effects test equation:

Dependent Variabel: LOGY?

Method: Panel Least Squares

Date: 07/30/24 Time: 11:03

Sample: 1 11

Included observations: 11

Cross-sections included: 35

Total pool (balanced) observations: 385

| Variabel | Coefficient | Std. Error | t-Statistic | Prob.  |
|----------|-------------|------------|-------------|--------|
| C        | 15.59549    | 0.080450   | 193.8543    | 0.0000 |
| X1?      | 0.003531    | 0.001090   | 3.239546    | 0.0013 |
| X2?      | -0.002558   | 0.000442   | -5.785542   | 0.0000 |
| X3?      | 0.051708    | 0.003312   | 15.61166    | 0.0000 |
| X4?      | 0.001196    | 0.000422   | 2.832810    | 0.0049 |

### Effects Specification

Cross-section fixed (dummy variables)

|                       |           |                    |          |
|-----------------------|-----------|--------------------|----------|
| Root MSE              | 0.091085  | R-squared          | 0.979772 |
| Mean dependent var    | 16.83023  | Adjusted R-squared | 0.977550 |
| S.D. dependent var    | 0.641256  | S.E. of regression | 0.096081 |
| Akaike info criterion | -1.751460 | Sum squared resid  | 3.194112 |
| Schwarz criterion     | -1.351001 | Log likelihood     | 376.1560 |
| Hannan-Quinn criter.  | -1.592636 | F-statistic        | 441.0232 |
| Durbin-Watson stat    | 0.994062  | Prob(F-statistic)  | 0.000000 |

## Lampiran 5 Regresi FEM

Dependent Variabel: LOGY?

Method: Pooled Least Squares

Date: 07/30/24 Time: 11:03

Sample: 1 11

Included observations: 11

Cross-sections included: 35

Total pool (balanced) observations: 385

| Variabel              | Coefficient | Std. Error | t-Statistic | Prob.  |
|-----------------------|-------------|------------|-------------|--------|
| C                     | 15.59549    | 0.080450   | 193.8543    | 0.0000 |
| X1?                   | 0.003531    | 0.001090   | 3.239546    | 0.0013 |
| X2?                   | -0.002558   | 0.000442   | -5.785542   | 0.0000 |
| X3?                   | 0.051708    | 0.003312   | 15.61166    | 0.0000 |
| X4?                   | 0.001196    | 0.000422   | 2.832810    | 0.0049 |
| Fixed Effects (Cross) |             |            |             |        |
| KAB_BANJARNEGARA--C   | -0.691937   |            |             |        |
| KAB_BANYUMAS--C       | 0.478398    |            |             |        |
| KAB_BATANG--C         | -0.418954   |            |             |        |
| KAB_BLORA--C          | -0.374959   |            |             |        |
| KAB_BOYOLALI--C       | 0.007625    |            |             |        |
| KAB_BREBES--C         | 0.205678    |            |             |        |
| KAB_CILACAP--C        | 1.351497    |            |             |        |
| KAB_DEMAK--C          | -0.135787   |            |             |        |
| KAB_GROBOGAN--C       | -0.152662   |            |             |        |
| KAB_JEPARA--C         | 0.055039    |            |             |        |
| KAB_KARANGANYAR--C    |             |            |             |        |
| C                     | 0.391643    |            |             |        |
| KAB_KEBUMEN--C        | -0.182705   |            |             |        |
| KAB_KENDAL--C         | 0.100007    |            |             |        |
| KAB_KLATEN--C         | 0.399465    |            |             |        |
| KAB_KUDUS--C          | 1.393194    |            |             |        |
| KAB_MAGELANG--C       | -0.087264   |            |             |        |
| KAB_PATI--C           | 0.432417    |            |             |        |
| KAB_PEKALONGAN--C     | -0.211287   |            |             |        |
| KAB_PEMALANG--C       | -0.237422   |            |             |        |
| KAB_PURBALINGGA--C    | -0.430969   |            |             |        |
| KAB_PURWOREJO--C      | -0.557160   |            |             |        |
| KAB_REMBANG--C        | -0.501321   |            |             |        |
| KAB_SEMARANG--C       | 0.428659    |            |             |        |
| KAB_SRAGEN--C         | 0.301719    |            |             |        |
| KAB_SUKOHARJO--C      | 0.459871    |            |             |        |
| KAB_TEGAL--C          | 0.158578    |            |             |        |
| KAB_TEMANGGUNG--C     |             |            |             |        |
| C                     | -0.839022   |            |             |        |
| KAB_WONOGIRI--C       | -0.011666   |            |             |        |
| KAB_WONOSOBO--C       | -0.945426   |            |             |        |
| KOTA_MAGELANG--C      | -1.116057   |            |             |        |
| KOTA_PEKALONGAN--C    |             |            |             |        |
| C                     | -0.851494   |            |             |        |
| KOTA_SALATIGA--C      | -0.719720   |            |             |        |
| KOTA_SEMARANG--C      | 2.129644    |            |             |        |
| KOTA_SURAKARTA--C     | 0.733926    |            |             |        |
| KOTA_TEGAL--C         | -0.561545   |            |             |        |

### Effects Specification

#### Cross-section fixed (dummy variabels)

|                       |           |                    |          |
|-----------------------|-----------|--------------------|----------|
| Root MSE              | 0.091085  | R-squared          | 0.979772 |
| Mean dependent var    | 16.83023  | Adjusted R-squared | 0.977550 |
| S.D. dependent var    | 0.641256  | S.E. of regression | 0.096081 |
| Akaike info criterion | -1.751460 | Sum squared resid  | 3.194112 |
| Schwarz criterion     | -1.351001 | Log likelihood     | 376.1560 |
| Hannan-Quinn criter.  | -1.592636 | F-statistic        | 441.0232 |

### Lampiran 6 Uji Korelasi

| Correlation |          |           |           |           |  |
|-------------|----------|-----------|-----------|-----------|--|
|             | X1       | X2        | X3        | X4        |  |
| X1          | 1.000000 | 0.041991  | 0.555514  | 0.046892  |  |
| X2          | 0.041991 | 1.000000  | -0.288749 | -0.125454 |  |
| X3          | 0.555514 | -0.288749 | 1.000000  | 0.205217  |  |
| X4          | 0.046892 | -0.125454 | 0.205217  | 1.000000  |  |

### Lampiran 7 Uji Heterokedasitisitas

Dependent Variabel: RESABS  
Method: Panel Least Squares  
Date: 04/09/25 Time: 10:06  
Sample: 2013 2023  
Periods included: 11  
Cross-sections included: 35  
Total panel (balanced) observations: 385

| Variabel | Coefficient | Std. Error | t-Statistic | Prob.  |
|----------|-------------|------------|-------------|--------|
| C        | 0.051148    | 0.014484   | 3.531307    | 0.0005 |
| X1       | -0.000396   | 0.000229   | -1.727578   | 0.0849 |
| X2       | 0.000174    | 0.000108   | 1.617850    | 0.1065 |
| X3       | -0.000482   | 0.000478   | -1.009346   | 0.3135 |
| X4       | 0.000111    | 8.60E-05   | 1.296408    | 0.1956 |

  

|                    |          |                       |           |
|--------------------|----------|-----------------------|-----------|
| R-squared          | 0.035235 | Mean dependent var    | 0.030132  |
| Adjusted R-squared | 0.025079 | S.D. dependent var    | 0.025663  |
| S.E. of regression | 0.025339 | Akaike info criterion | -4.500059 |
| Sum squared resid  | 0.243981 | Schwarz criterion     | -4.448718 |
| Log likelihood     | 871.2613 | Hannan-Quinn criter.  | -4.479697 |
| F-statistic        | 3.469560 | Durbin-Watson stat    | 0.964444  |
| Prob(F-statistic)  | 0.008439 |                       |           |

## Lampiran 8 Uji Durbin-watson

Dependent Variabel: RESABS  
 Method: Panel Least Squares  
 Date: 04/09/25 Time: 10:40  
 Sample: 2013 2023  
 Periods included: 11  
 Cross-sections included: 35  
 Total panel (balanced) observations: 385

| Variabel | Coefficient | Std. Error | t-Statistic | Prob.  |
|----------|-------------|------------|-------------|--------|
| C        | 0.020955    | 0.017717   | 1.182770    | 0.2377 |
| X1       | -1.69E-05   | 0.000240   | -0.070286   | 0.9440 |
| X2       | 0.000221    | 9.73E-05   | 2.266916    | 0.0240 |
| X3       | -0.000116   | 0.000729   | -0.158493   | 0.8742 |
| X4       | 2.56E-05    | 9.30E-05   | 0.275310    | 0.7832 |

  

| Effects Specification                 |          |                       |           |
|---------------------------------------|----------|-----------------------|-----------|
| Cross-section fixed (dummy variabels) |          |                       |           |
| R-squared                             | 0.387469 | Mean dependent var    | 0.030132  |
| Adjusted R-squared                    | 0.320197 | S.D. dependent var    | 0.025663  |
| S.E. of regression                    | 0.021159 | Akaike info criterion | -4.777721 |
| Sum squared resid                     | 0.154904 | Schwarz criterion     | -4.377262 |
| Log likelihood                        | 958.7112 | Hannan-Quinn criter.  | -4.618897 |
| F-statistic                           | 5.759720 | Durbin-Watson stat    | 1.465423  |
| Prob(F-statistic)                     | 0.000000 |                       |           |

## Lampiran 9 Hasil Uji Normalitas

