

BAB V

PENUTUP

Pada bagian ini akan memaparkan hasil penelitian serta saran kepada peneliti lain yang nantinya akan melakukan penelitian relevan dengan penelitian ini.

5.1 Kesimpulan

Berdasarkan hasil penelitian dan analisis mengenai tingkat pengangguran, kemiskinan, dan distribusi pendapatan serta Indeks Pembangunan Manusia di 2 Kabupaten atau kota di Provinsi Papua tahun 2015-2021, dapat disimpulkan sebagai berikut:

1. Variabel Tingkat Pengangguran, Kemiskinan, dan Distribusi pendapatan berpengaruh terhadap Indeks Pembangunan Manusia (IPM) di di Provinsi Papua tahun 2015-2021.
2. Variabel Tingkat Pengangguran tidak berpengaruh terhadap Indeks Pembangunan Manusia (IPM) di di Provinsi Papua tahun 2015-2021.
3. Variabel Kemiskinan berpengaruh negatif dan signifikan terhadap Indeks Pembangunan Manusia (IPM) di Provinsi Papua tahun 2015-2021.
4. Variabel Distribusi Pendapatan berpengaruh positif dan signifikan terhadap Indeks Pembangunan Manusia (IPM) di di Provinsi Papua tahun 2015-2021.

5.2 Saran

Berdasarkan hasil kesimpulan tersebut, maka saran oleh penulis adalah sebagai berikut.

1. Bagi Pemerintah diharapkan dapat mendorong pertumbuhan ekonomi yang berkelanjutan. Pemerintah harus menciptakan kebijakan dan program yang mendorong pertumbuhan ekonomi yang berkelanjutan di Provinsi Papua. Ini dapat dicapai dengan menarik investasi, mendorong pengembangan sektor ekonomi yang potensial, dan mengurangi birokrasi dan korupsi yang sering menjadi hambatan untuk investasi dan pengembangan ekonomi.
2. Bagi Peneliti, hendaknya menggunakan metode regresi atau model ekonometrik lainnya untuk menguji hipotesis dan mengidentifikasi faktor-faktor yang mempengaruhi tingkat pengangguran, kemiskinan dan distribusi pendapatan di Provinsi Papua.
3. Bagi peneliti, hendaknya mengidentifikasi variabel dengan lebih teliti dan tepat. Agar dapat memastikan bahwa variabel-variabel ini terukur dengan baik dan dapat memberikan gambaran yang representatif tentang kondisi di Provinsi Papua selama periode penelitian.
4. Bagi peneliti berikutnya yang akan mengkaji mengenai Indeks Pembangunan Manusia di Provinsi Papua sebaiknya memasukan beberapa variabel lainya seperti realisasi anggaran belanja kesehatan dan pendidikan.

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LAMPIRAN

Lampiran I DATA PENELITIAN

| Kabupaten | Tahun | X1 TPT (%) | X2 Kemiskinan(%) | X3 Gini Ratio (0-1) | Y IPM |
|-----------------|-------|------------|------------------|---------------------|-------|
| Merauke | 2015 | 9.08 | 11.1 | 0.411 | 67.75 |
| Merauke | 2016 | 8.13 | 11.08 | 0.342 | 68.09 |
| Merauke | 2017 | 3.16 | 10.81 | 0.368 | 68.64 |
| Merauke | 2018 | 1.72 | 10.54 | 0.388 | 69.38 |
| Merauke | 2019 | 2.61 | 10.35 | 0.386 | 69.98 |
| Merauke | 2020 | 3.43 | 10.03 | 0.38 | 70.09 |
| Merauke | 2021 | 2.19 | 10.16 | 0.385 | 70.49 |
| Jayawijaya | 2015 | 0.06 | 39.48 | 0.397 | 54.18 |
| Jayawijaya | 2016 | 0.5 | 39.66 | 0.337 | 54.96 |
| Jayawijaya | 2017 | 0.59 | 38.62 | 0.331 | 55.99 |
| Jayawijaya | 2018 | 0.65 | 38.66 | 0.318 | 56.82 |
| Jayawijaya | 2019 | 2.39 | 38.33 | 0.318 | 57.79 |
| Jayawijaya | 2020 | 2.51 | 37.22 | 0.342 | 58.03 |
| Jayawijaya | 2021 | 1.62 | 37.09 | 0.344 | 58.67 |
| Jayapura | 2015 | 14.03 | 14.69 | 0.386 | 70.04 |
| Jayapura | 2016 | 14.85 | 13.49 | 0.31 | 70.5 |
| Jayapura | 2017 | 13.39 | 13.01 | 0.281 | 70.97 |
| Jayapura | 2018 | 10.71 | 13.44 | 0.337 | 71.25 |
| Jayapura | 2019 | 9.68 | 13.13 | 0.401 | 71.84 |
| Jayapura | 2020 | 10.33 | 12.44 | 0.432 | 71.69 |
| Jayapura | 2021 | 7.87 | 12.13 | 0.378 | 72.03 |
| Nabire | 2015 | 10.14 | 24.37 | 0.389 | 66.49 |
| Nabire | 2016 | 8.73 | 26.03 | 0.298 | 66.64 |
| Nabire | 2017 | 8.33 | 25.38 | 0.383 | 67.11 |
| Nabire | 2018 | 7.22 | 25.17 | 0.367 | 67.7 |
| Nabire | 2019 | 6.31 | 24.81 | 0.36 | 68.53 |
| Nabire | 2020 | 6.65 | 24.15 | 0.349 | 68.83 |
| Nabire | 2021 | 3.05 | 23.83 | 0.334 | 69.15 |
| Kepulauan Yapen | 2015 | 7.54 | 27.7 | 0.369 | 65.28 |
| Kepulauan Yapen | 2016 | 8.73 | 27.54 | 0.324 | 65.55 |
| Kepulauan Yapen | 2017 | 4.77 | 26.82 | 0.325 | 66.07 |
| Kepulauan Yapen | 2018 | 5.05 | 27.17 | 0.374 | 67 |
| Kepulauan Yapen | 2019 | 5.78 | 27.13 | 0.381 | 67.76 |

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|-----------------|------|-------|-------|-------|-------|
| Kepulauan Yapen | 2020 | 5.3 | 26.3 | 0.4 | 67.66 |
| Kepulauan Yapen | 2021 | 2.47 | 26.09 | 0.387 | 67.72 |
| Biak Numfor | 2015 | 10.08 | 27.23 | 0.392 | 70.85 |
| Biak Numfor | 2016 | 5.87 | 26.99 | 0.357 | 71.13 |
| Biak Numfor | 2017 | 7.33 | 25.44 | 0.361 | 71.56 |
| Biak Numfor | 2018 | 7.13 | 25.72 | 0.43 | 71.96 |
| Biak Numfor | 2019 | 10.42 | 25.5 | 0.372 | 72.57 |
| Biak Numfor | 2020 | 10.38 | 24.57 | 0.401 | 72.19 |
| Biak Numfor | 2021 | 9.49 | 24.45 | 0.374 | 72.33 |
| Paniai | 2015 | 0.83 | 37.43 | 0.32 | 54.2 |
| Paniai | 2016 | 9.47 | 39.13 | 0.46 | 54.34 |
| Paniai | 2017 | 0.37 | 37.4 | 0.46 | 54.91 |
| Paniai | 2018 | 0.6 | 37.35 | 0.367 | 55.83 |
| Paniai | 2019 | 0.66 | 37.16 | 0.351 | 56.58 |
| Paniai | 2020 | 0.83 | 36.71 | 0.38 | 56.31 |
| Paniai | 2021 | 0.74 | 36.59 | 0.224 | 56.7 |
| Puncak Jaya | 2015 | 0.89 | 37.45 | 0.341 | 44.87 |
| Puncak Jaya | 2016 | 1.4 | 37.31 | 0.152 | 45.49 |
| Puncak Jaya | 2017 | 0.66 | 36.01 | 0.214 | 46.57 |
| Puncak Jaya | 2018 | 0.91 | 36.27 | 0.352 | 47.39 |
| Puncak Jaya | 2019 | 1.78 | 35.71 | 0.415 | 48.33 |
| Puncak Jaya | 2020 | 1.5 | 34.74 | 0.376 | 48.37 |
| Puncak Jaya | 2021 | 1.74 | 36 | 0.368 | 48.99 |
| Mimika | 2015 | 7.94 | 16.2 | 0.333 | 70.89 |
| Mimika | 2016 | 0.77 | 14.72 | 0.289 | 71.64 |
| Mimika | 2017 | 7.7 | 14.89 | 0.325 | 72.42 |
| Mimika | 2018 | 8.3 | 14.55 | 0.263 | 73.15 |
| Mimika | 2019 | 7.51 | 14.54 | 0.293 | 74.13 |
| Mimika | 2020 | 7.8 | 14.26 | 0.339 | 74.19 |
| Mimika | 2021 | 5.37 | 14.17 | 0.349 | 74.48 |
| Boven Digoel | 2015 | 5.35 | 19.5 | 0.357 | 59.02 |
| Boven Digoel | 2016 | 7.14 | 20.82 | 0.325 | 59.35 |
| Boven Digoel | 2017 | 5.2 | 19.9 | 0.345 | 60.14 |
| Boven Digoel | 2018 | 3.49 | 20.35 | 0.424 | 60.83 |
| Boven Digoel | 2019 | 3.08 | 19.66 | 0.392 | 61.51 |
| Boven Digoel | 2020 | 8.09 | 19.41 | 0.448 | 61.53 |
| Boven Digoel | 2021 | 6.73 | 19.9 | 0.407 | 61.62 |
| Mappi | 2015 | 2.94 | 26.96 | 0.338 | 56.11 |
| Mappi | 2016 | 4.84 | 26.64 | 0.441 | 56.54 |

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|-----------------------|------|------|-------|-------|-------|
| Mappi | 2017 | 6.39 | 25.75 | 0.394 | 57.1 |
| Mappi | 2018 | 2.88 | 25.64 | 0.416 | 57.72 |
| Mappi | 2019 | 4.51 | 25.5 | 0.416 | 58.3 |
| Mappi | 2020 | 5.77 | 25.04 | 0.427 | 58.15 |
| Mappi | 2021 | 4.11 | 26.05 | 0.384 | 58.7 |
| Asmat | 2015 | 0.53 | 28.48 | 0.339 | 46.62 |
| Asmat | 2016 | 3.11 | 27.79 | 0.308 | 47.31 |
| Asmat | 2017 | 0.3 | 27.16 | 0.233 | 48.49 |
| Asmat | 2018 | 0.49 | 27.41 | 0.385 | 49.37 |
| Asmat | 2019 | 1.06 | 26.6 | 0.398 | 50.37 |
| Asmat | 2020 | 2.38 | 25.49 | 0.403 | 50.55 |
| Asmat | 2021 | 0.45 | 24.83 | 0.405 | 51.29 |
| Yahukimo | 2015 | 0.55 | 41.26 | 0.257 | 46.63 |
| Yahukimo | 2016 | 0.35 | 40.62 | 0.251 | 47.13 |
| Yahukimo | 2017 | 2.2 | 39.33 | 0.332 | 47.95 |
| Yahukimo | 2018 | 0.86 | 39.25 | 0.4 | 48.51 |
| Yahukimo | 2019 | 2.01 | 38.82 | 0.414 | 49.25 |
| Yahukimo | 2020 | 3.88 | 37.34 | 0.394 | 49.37 |
| Yahukimo | 2021 | 2.25 | 37.64 | 0.336 | 49.48 |
| Pegunungan Bintang | 2015 | 2.72 | 31.55 | 0.268 | 40.91 |
| Pegunungan Bintang | 2016 | 1.03 | 31.52 | 0.288 | 41.9 |
| Pegunungan Bintang | 2017 | 2.62 | 30.6 | 0.336 | 43.24 |
| Pegunungan Bintang | 2018 | 0.88 | 30.75 | 0.38 | 44.22 |
| Pegunungan Bintang | 2019 | 1.63 | 30.51 | 0.373 | 45.21 |
| Pegunungan Bintang | 2020 | 4.12 | 30.15 | 0.448 | 45.44 |
| Pegunungan Bintang | 2021 | 4.43 | 30.46 | 0.344 | 46.28 |
| Tolikara | 2015 | 0.48 | 34 | 0.365 | 46.38 |
| Tolikara | 2016 | 3.02 | 33.63 | 0.381 | 47.11 |
| Tolikara | 2017 | 0.88 | 32.73 | 0.299 | 47.89 |
| Tolikara | 2018 | 0.17 | 33.14 | 0.361 | 48.85 |
| Tolikara | 2019 | 1.3 | 32.9 | 0.34 | 49.68 |
| Tolikara | 2020 | 1.07 | 32.04 | 0.388 | 49.5 |
| Tolikara | 2021 | 1.12 | 32.6 | 0.291 | 49.6 |

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|----------------|------|-------|-------|-------|-------|
| Sarmi | 2015 | 3.07 | 13.85 | 0.352 | 60.99 |
| Sarmi | 2016 | 0.62 | 13.74 | 0.347 | 61.27 |
| Sarmi | 2017 | 8.03 | 13.75 | 0.4 | 62.31 |
| Sarmi | 2018 | 3 | 14.51 | 0.42 | 63 |
| Sarmi | 2019 | 5.26 | 14.41 | 0.436 | 63.45 |
| Sarmi | 2020 | 4.83 | 13.87 | 0.424 | 63.63 |
| Sarmi | 2021 | 3.5 | 13.84 | 0.409 | 63.94 |
| Keerom | 2015 | 4.19 | 15.83 | 0.361 | 63.43 |
| Keerom | 2016 | 2.04 | 17.15 | 0.354 | 64.1 |
| Keerom | 2017 | 3.87 | 16.69 | 0.358 | 64.99 |
| Keerom | 2018 | 6 | 16.9 | 0.382 | 65.75 |
| Keerom | 2019 | 2.9 | 16.83 | 0.432 | 66.59 |
| Keerom | 2020 | 2.56 | 16.32 | 0.396 | 66.4 |
| Keerom | 2021 | 1.41 | 16 | 0.393 | 66.49 |
| Waropen | 2015 | 4.43 | 31.41 | 0.329 | 62.35 |
| Waropen | 2016 | 3.22 | 31.25 | 0.309 | 63.1 |
| Waropen | 2017 | 3.56 | 30.82 | 0.344 | 64.08 |
| Waropen | 2018 | 2.5 | 30.53 | 0.279 | 64.8 |
| Waropen | 2019 | 3.32 | 30.95 | 0.369 | 65.34 |
| Waropen | 2020 | 4.76 | 29.54 | 0.346 | 64.94 |
| Waropen | 2021 | 8.56 | 29.85 | 0.405 | 65.1 |
| Supiori | 2015 | 10.75 | 39.25 | 0.28 | 60.09 |
| Supiori | 2016 | 3.01 | 37.99 | 0.307 | 60.59 |
| Supiori | 2017 | 5.53 | 37.4 | 0.252 | 61.23 |
| Supiori | 2018 | 8.11 | 39.22 | 0.382 | 61.84 |
| Supiori | 2019 | 4.68 | 38.79 | 0.364 | 62.3 |
| Supiori | 2020 | 4.12 | 36.91 | 0.319 | 62.3 |
| Supiori | 2021 | 2.66 | 37.91 | 0.32 | 62.72 |
| Mamberamo Raya | 2015 | 3.15 | 29.71 | 0.234 | 48.29 |
| Mamberamo Raya | 2016 | 8.34 | 29.52 | 0.303 | 49 |
| Mamberamo Raya | 2017 | 6.97 | 29.88 | 0.203 | 50.25 |
| Mamberamo Raya | 2018 | 2.58 | 30.1 | 0.405 | 51.24 |
| Mamberamo Raya | 2019 | 3 | 29.13 | 0.411 | 52.2 |
| Mamberamo Raya | 2020 | 2.55 | 28.38 | 0.211 | 51.78 |
| Mamberamo Raya | 2021 | 1.91 | 28.78 | 0.324 | 52.18 |
| Nduga | 2015 | 2.7 | 35.89 | 0.245 | 25.47 |
| Nduga | 2016 | 0.46 | 38.47 | 0.249 | 26.56 |
| Nduga | 2017 | 1.71 | 37.29 | 0.212 | 27.87 |
| Nduga | 2018 | 0.59 | 38.13 | 0.212 | 29.42 |

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|---------------------|------|------|-------|-------|-------|
| Nduga | 2019 | 1.03 | 38.24 | 0.188 | 30.75 |
| Nduga | 2020 | 0.93 | 36.72 | 0.187 | 31.55 |
| Nduga | 2021 | 0.22 | 37.18 | 0.231 | 32.84 |
| Lanny Jaya | 2015 | 1.7 | 41.97 | 0.299 | 44.18 |
| Lanny Jaya | 2016 | 0.56 | 41.68 | 0.275 | 45.16 |
| Lanny Jaya | 2017 | 0.44 | 39.6 | 0.309 | 46.49 |
| Lanny Jaya | 2018 | 0.69 | 40.06 | 0.232 | 47.34 |
| Lanny Jaya | 2019 | 0.12 | 39.52 | 0.297 | 48 |
| Lanny Jaya | 2020 | 0.9 | 38.13 | 0.281 | 47.86 |
| Lanny Jaya | 2021 | 0.45 | 38.73 | 0.293 | 48.68 |
| Mamberamo Tengah | 2015 | 2.25 | 35.54 | 0.274 | 43.55 |
| Mamberamo Tengah | 2016 | 1.2 | 38.36 | 0.27 | 44.15 |
| Mamberamo Tengah | 2017 | 0.32 | 36.38 | 0.225 | 45.5 |
| Mamberamo Tengah | 2018 | 0.31 | 37.02 | 0.248 | 46.41 |
| Mamberamo Tengah | 2019 | 0.71 | 36.93 | 0.248 | 47.23 |
| Mamberamo Tengah | 2020 | 0.8 | 36.41 | 0.33 | 47.57 |
| Mamberamo Tengah | 2021 | 0.9 | 36.76 | 0.32 | 48.32 |
| Yalimo | 2015 | 0.05 | 35.88 | 0.135 | 44.32 |
| Yalimo | 2016 | 3.7 | 35.8 | 0.193 | 44.95 |
| Yalimo | 2017 | 3.87 | 34.97 | 0.247 | 46.19 |
| Yalimo | 2018 | 0.84 | 35.45 | 0.337 | 47.13 |
| Yalimo | 2019 | 0.64 | 34.52 | 0.32 | 48.08 |
| Yalimo | 2020 | 0.86 | 32.82 | 0.362 | 48.34 |
| Yalimo | 2021 | 0.41 | 33.25 | 0.363 | 49.01 |
| Puncak | 2015 | 0.96 | 38.74 | 0.333 | 39.41 |
| Puncak | 2016 | 0.1 | 38.58 | 0.194 | 39.96 |
| Puncak | 2017 | 0.61 | 37.46 | 0.177 | 41.06 |
| Puncak | 2018 | 0.9 | 38.15 | 0.233 | 41.81 |
| Puncak | 2019 | 0.88 | 38.24 | 0.321 | 42.7 |
| Puncak | 2020 | 0.56 | 36.96 | 0.302 | 43.04 |
| Puncak | 2021 | 0.94 | 36.26 | 0.312 | 43.17 |
| Dogiyai | 2015 | 0.77 | 29.1 | 0.204 | 52.78 |
| Dogiyai | 2016 | 0.46 | 31.21 | 0.25 | 53.32 |

| | | | | | |
|---------------|------|-------|-------|-------|-------|
| Dogiyai | 2017 | 0.76 | 30.36 | 0.223 | 54.04 |
| Dogiyai | 2018 | 1.26 | 30.48 | 0.359 | 54.44 |
| Dogiyai | 2019 | 0.11 | 31.12 | 0.366 | 55.41 |
| Dogiyai | 2020 | 0.21 | 28.62 | 0.326 | 54.84 |
| Dogiyai | 2021 | 5.68 | 28.81 | 0.306 | 55 |
| Intan Jaya | 2015 | 0.23 | 41.34 | 0.274 | 44.35 |
| Intan Jaya | 2016 | 0.19 | 43.73 | 0.292 | 44.82 |
| Intan Jaya | 2017 | 1.12 | 42.23 | 0.255 | 45.68 |
| Intan Jaya | 2018 | 0.51 | 42.71 | 0.358 | 46.55 |
| Intan Jaya | 2019 | 0.56 | 42.92 | 0.312 | 47.51 |
| Intan Jaya | 2020 | 1.22 | 40.71 | 0.269 | 47.79 |
| Intan Jaya | 2021 | 1.43 | 41.66 | 0.248 | 48.34 |
| Deiyai | 2015 | 5.64 | 45.74 | 0.284 | 48.28 |
| Deiyai | 2016 | 5.41 | 45.11 | 0.252 | 48.5 |
| Deiyai | 2017 | 1.38 | 43.63 | 0.235 | 49.07 |
| Deiyai | 2018 | 0.59 | 43.49 | 0.351 | 49.55 |
| Deiyai | 2019 | 0.22 | 43.65 | 0.336 | 50.11 |
| Deiyai | 2020 | 0.41 | 41.76 | 0.357 | 49.46 |
| Deiyai | 2021 | 0.79 | 40.59 | 0.24 | 49.96 |
| Kota Jayapura | 2015 | 10.37 | 12.22 | 0.347 | 78.05 |
| Kota Jayapura | 2016 | 9.86 | 12.06 | 0.283 | 78.56 |
| Kota Jayapura | 2017 | 12.39 | 11.46 | 0.317 | 79.23 |
| Kota Jayapura | 2018 | 10.22 | 11.37 | 0.31 | 79.58 |
| Kota Jayapura | 2019 | 12.37 | 11.49 | 0.305 | 80.16 |
| Kota Jayapura | 2020 | 11.62 | 11.16 | 0.278 | 79.94 |
| Kota Jayapura | 2021 | 11.67 | 11.39 | 0.276 | 80.11 |

Lampiran II Hasil Estimasi Model *Common Effect*

Dependent Variable: Y
Method: Panel Least Squares
Date: 04/15/23 Time: 21:49
Sample: 2015 2021
Periods included: 7
Cross-sections included: 29
Total panel (balanced) observations: 203

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| C | 57.45787 | 3.637906 | 15.79422 | 0.0000 |
| X1 | 1.322070 | 0.161925 | 8.164684 | 0.0000 |
| X2 | -0.525050 | 0.060048 | -8.743769 | 0.0000 |
| X3 | 28.01611 | 7.361599 | 3.805710 | 0.0002 |
| R-squared | 0.696682 | Mean dependent var | | 56.25493 |
| Adjusted R-squared | 0.692109 | S.D. dependent var | | 11.46238 |
| S.E. of regression | 6.360236 | Akaike info criterion | | 6.557516 |
| Sum squared resid | 8050.069 | Schwarz criterion | | 6.622801 |
| Log likelihood | -661.5879 | Hannan-Quinn criter. | | 6.583928 |
| F-statistic | 152.3590 | Durbin-Watson stat | | 0.329400 |
| Prob(F-statistic) | 0.000000 | | | |



Lampiran III Hasil Estimasi Model *Fixed Effect*

Dependent Variable: Y
Method: Panel Least Squares
Date: 04/15/23 Time: 21:47
Sample: 2015 2021
Periods included: 7
Cross-sections included: 29
Total panel (balanced) observations: 203

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 75.63557 | 2.821788 | 26.80413 | 0.0000 |
| X1 | -0.067632 | 0.045349 | -1.491353 | 0.1377 |
| X2 | -0.737454 | 0.092458 | -7.976058 | 0.0000 |
| X3 | 7.215301 | 1.631352 | 4.422898 | 0.0000 |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.992242 | Mean dependent var | 56.25493 |
| Adjusted R-squared | 0.990836 | S.D. dependent var | 11.46238 |
| S.E. of regression | 1.097290 | Akaike info criterion | 3.167293 |
| Sum squared resid | 205.8918 | Schwarz criterion | 3.689572 |
| Log likelihood | -289.4802 | Hannan-Quinn criter. | 3.378586 |
| F-statistic | 705.5282 | Durbin-Watson stat | 0.811737 |
| Prob(F-statistic) | 0.000000 | | |



Lampiran IV Hasil Estimasi Model *Random Effect*

Dependent Variable: Y
 Method: Panel EGLS (Cross-section random effects)
 Date: 04/15/23 Time: 21:50
 Sample: 2015 2021
 Periods included: 7
 Cross-sections included: 29
 Total panel (balanced) observations: 203
 Swamy and Arora estimator of component variances

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 77.34079 | 2.381083 | 32.48135 | 0.0000 |
| X1 | -0.039846 | 0.044494 | -0.895529 | 0.3716 |
| X2 | -0.799649 | 0.068903 | -11.60549 | 0.0000 |
| X3 | 7.238232 | 1.621611 | 4.463606 | 0.0000 |

| Effects Specification | | S.D. | Rho |
|-----------------------|--|----------|--------|
| Cross-section random | | 5.441571 | 0.9609 |
| Idiosyncratic random | | 1.097290 | 0.0391 |

| Weighted Statistics | | | |
|---------------------|----------|--------------------|----------|
| R-squared | 0.438717 | Mean dependent var | 4.275146 |
| Adjusted R-squared | 0.430255 | S.D. dependent var | 1.546910 |
| S.E. of regression | 1.167630 | Sum squared resid | 271.3085 |
| F-statistic | 51.84821 | Durbin-Watson stat | 0.654405 |
| Prob(F-statistic) | 0.000000 | | |

| Unweighted Statistics | | | |
|-----------------------|----------|--------------------|----------|
| R-squared | 0.571262 | Mean dependent var | 56.25493 |
| Sum squared resid | 11378.70 | Durbin-Watson stat | 0.015603 |

Lampiran V UJI CHOW

Redundant Fixed Effects Tests
Equation: Untitled
Test cross-section fixed effects

| Effects Test | Statistic | d.f. | Prob. |
|--------------------------|------------|----------|--------|
| Cross-section F | 232.673210 | (28,171) | 0.0000 |
| Cross-section Chi-square | 744.215267 | 28 | 0.0000 |

Cross-section fixed effects test equation:
Dependent Variable: Y
Method: Panel Least Squares
Date: 04/15/23 Time: 21:53
Sample: 2015 2021
Periods included: 7
Cross-sections included: 29
Total panel (balanced) observations: 203

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| C | 57.45787 | 3.637906 | 15.79422 | 0.0000 |
| X1 | 1.322070 | 0.161925 | 8.164684 | 0.0000 |
| X2 | -0.525050 | 0.060048 | -8.743769 | 0.0000 |
| X3 | 28.01611 | 7.361599 | 3.805710 | 0.0002 |
| R-squared | 0.696682 | Mean dependent var | | 56.25493 |
| Adjusted R-squared | 0.692109 | S.D. dependent var | | 11.46238 |
| S.E. of regression | 6.360236 | Akaike info criterion | | 6.557516 |
| Sum squared resid | 8050.069 | Schwarz criterion | | 6.622801 |
| Log likelihood | -661.5879 | Hannan-Quinn criter. | | 6.583928 |
| F-statistic | 152.3590 | Durbin-Watson stat | | 0.329400 |
| Prob(F-statistic) | 0.000000 | | | |



Lampiran VI UJI HAUSMAN

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

| Test Summary | Chi-Sq. Statistic | Chi-Sq. d.f. | Prob. |
|----------------------|-------------------|--------------|--------|
| Cross-section random | 29.330744 | 3 | 0.0000 |

Cross-section random effects test comparisons:

| Variable | Fixed | Random | Var(Diff.) | Prob. |
|----------|-----------|-----------|------------|--------|
| X1 | -0.067632 | -0.039846 | 0.000077 | 0.0015 |
| X2 | -0.737454 | -0.799649 | 0.003801 | 0.3131 |
| X3 | 7.215301 | 7.238232 | 0.031686 | 0.8975 |

Cross-section random effects test equation:

Dependent Variable: Y

Method: Panel Least Squares

Date: 04/15/23 Time: 21:53

Sample: 2015 2021

Periods included: 7

Cross-sections included: 29

Total panel (balanced) observations: 203

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|----------|-------------|------------|-------------|--------|
| C | 75.63557 | 2.821788 | 26.80413 | 0.0000 |
| X1 | -0.067632 | 0.045349 | -1.491353 | 0.1377 |
| X2 | -0.737454 | 0.092458 | -7.976058 | 0.0000 |
| X3 | 7.215301 | 1.631352 | 4.422898 | 0.0000 |

Effects Specification

Cross-section fixed (dummy variables)

| | | | |
|--------------------|-----------|-----------------------|----------|
| R-squared | 0.992242 | Mean dependent var | 56.25493 |
| Adjusted R-squared | 0.990836 | S.D. dependent var | 11.46238 |
| S.E. of regression | 1.097290 | Akaike info criterion | 3.167293 |
| Sum squared resid | 205.8918 | Schwarz criterion | 3.689572 |
| Log likelihood | -289.4802 | Hannan-Quinn criter. | 3.378586 |
| F-statistic | 705.5282 | Durbin-Watson stat | 0.811737 |
| Prob(F-statistic) | 0.000000 | | |

Lampiran VII UJI MULTIKOLINEARITAS

Correlation

| | X1 | X2 | X3 |
|----|-----------|-----------|-----------|
| X1 | 1.000000 | -0.607158 | 0.248931 |
| X2 | -0.607158 | 1.000000 | -0.382141 |
| X3 | 0.248931 | -0.382141 | 1.000000 |

Lampiran VIII UJI HETEROKEDASTISITAS

Dependent Variable: RESABS
 Method: Panel Least Squares
 Date: 04/15/23 Time: 21:56
 Sample: 2015 2021
 Periods included: 7
 Cross-sections included: 29
 Total panel (balanced) observations: 203

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|--------------------|-------------|-----------------------|-------------|----------|
| C | 5.455727 | 2.155623 | 2.530929 | 0.0121 |
| X1 | 0.093080 | 0.095948 | 0.970112 | 0.3332 |
| X2 | 0.027466 | 0.035581 | 0.771927 | 0.4411 |
| X3 | -4.668728 | 4.362078 | -1.070299 | 0.2858 |
| R-squared | 0.012690 | Mean dependent var | | 5.055010 |
| Adjusted R-squared | -0.002194 | S.D. dependent var | | 3.764599 |
| S.E. of regression | 3.768725 | Akaike info criterion | | 5.510858 |
| Sum squared resid | 2826.455 | Schwarz criterion | | 5.576143 |
| Log likelihood | -555.3521 | Hannan-Quinn criter. | | 5.537270 |
| F-statistic | 0.852621 | Durbin-Watson stat | | 0.715796 |
| Prob(F-statistic) | 0.466692 | | | |