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**LAMPIRAN**

**Lampiran 1 : Daftar Populasi**

|  |  |  |
| --- | --- | --- |
| No | Kode Perusahaan | Nama Perusahaan |
| 1. | AGRO | Bank Rakyat Indonesia Agroniaga Tbk. |
| 2. | AGRS | Bank IBK Indonesia Tbk. |
| 3. | AMAR | Bank Amar Indonesia Tbk. |
| 4. | ARTO | Bank Jago Tbk. |
| 5. | BABP | Bank MNC Internasional Tbk. |
| 6. | BACA | Bank Capital Indonesia Tbk. |
| 7. | BBCA | Bank Central Asia Tbk. |
| 8. | BBHI | Allo Bank Indonesia Tbk. |
| 9. | BBKP | Bank KB Bukopin Tbk. |
| 10. | BBMD | Bank Mestika Dharma Tbk. |
| 11. | BBNI | Bank Negara Indonesia (Persero) Tbk. |
| 12. | BBRI | Bank Rakyat Indonesia (Persero) Tbk. |
| 13. | BBSI | Bank Bisnis Internasional Tbk. |
| 14. | BBTN | Bank Tabungan Negara (Persero) Tbk |
| 15. | BBYB | Bank Neo Commerce Tbk. |
| 16. | BCIC | Bank JTrust Indonesia Tbk. |
| 17. | BDMN | Bank Danamon Indonesia Tbk. |
| 18. | BEKS | Bank Pembangunan Daerah Banten Tbk. |
| 19. | BGTG | Bank Ganesha Tbk. |
| 20. | BINA | Bank Ina Perdana Tbk. |
| 21. | BJBR | Bank Pembangunan Daerah Jawa Barat Banten Tbk. |
| 22. | BJTM | Bank Pembangunan Daerah Jawa Timur Tbk. |
| 23. | BKSW | Bank QNB Indonesia Tbk. |
| 24. | BMAS | Bank Maspion Indonesia Tbk. |
| 25. | BMRI | Bank Mandiri (Persero) Tbk. |
| 26. | BNBA | Bank Bumi Arta Tbk. |
| 27. | BNGA | Bank CIMB Niaga Tbk. |
| 28. | BNII | Bank Maybank Indonesia Tbk. |
| 29. | BNLI | Bank Permata Tbk. |
| 30. | BSIM | Bank Sinarmas Tbk. |
| 31. | BSWD | Bank of India Indonesia Tbk. |
| 32. | BTPN | Bank BTPN Tbk. |
| 33. | BVIC | BankVictoria International Tbk. |
| 34. | DNAR | Bank Oke Indonesia Tbk. |
| 35. | INPC | Bank Artha Graha International Tbk. |
| 36. | MASB | Bank Multiarta Sentosa Tbk. |
| 37. | MAYA | Bank Mayapada Internasional Tbk.  |
| 38. | MCOR | Bank China Construction Bank Indonesia Tbk.  |
| 39. | MEGA | Bank Mega Tbk. |
| 40. | NISP | Bank OCBC NISP Tbk. |
| 41. | NOBU | Bank Nationalnobu Tbk. |
| 42. | PNBN | Bank Pan Indonesia Tbk. |
| 43. | SDRA | Bank Woon Saudara Indonesia 1906 Tbk. |

**Lampiran 2 : Daftar Data Sampel**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| No | Kode Perusahaan | Tahun | **GCG** | **NPL** | **Leverage** | **Ukuran Perusahaan** | **Manajemen Laba** |
|  |  |  |  |  |  |  |  |
|  |  | 2019 | 0.96 | 4.89 | 4.34 | 29.49 | 0.23 |
|  |  | 2020 | 0.98 | 2.52 | 4.19 | 29.92 | 0.52 |
| 1 | AGRS | 2021 | 0.91 | 1.48 | 3.77 | 30.53 | 0.17 |
|  |  | 2022 | 0.91 | 1.33 | 3.39 | 30.32 | 0.12 |
|  |  | 2023 | 0.93 | 0.95 | 2.16 | 30.60 | 0.16 |
|  |  | 2019 | 0.55 | 1.30 | 4.25 | 34.50 | -0.04 |
|  |  | 2020 | 0.55 | 1.80 | 0.82 | 34.61 | -0.03 |
| 2 | BBCA | 2021 | 0.55 | 2.20 | 5.06 | 34.74 | -0.08 |
|  |  | 2022 | 0.55 | 1.70 | 4.94 | 34.80 | 0.00 |
|  |  | 2023 | 0.55 | 1.90 | 4.81 | 34.88 | -0.02 |
|  |  | 2019 | 0.75 | 1.20 | 5.51 | 34.40 | 0.08 |
|  |  | 2020 | 0.75 | 0.90 | 6.59 | 34.42 | -0.09 |
| 3 | BBNI | 2021 | 0.75 | 0.70 | 6.63 | 34.50 | -0.08 |
|  |  | 2022 | 0.75 | 0.50 | 6.35 | 34.60 | 0.04 |
|  |  | 2023 | 0.75 | 0.60 | 6.02 | 34.62 | 0.03 |
|  |  | 2019 | 0.24 | 1.63 | 4.42 | 29.30 | 0.06 |
|  |  | 2020 | 0.25 | 2.67 | 3.84 | 29.32 | 0.00 |
| 4 | BBYB | 2021 | 0.25 | 1.19 | 2.92 | 30.06 | -0.20 |
|  |  | 2022 | 0.26 | 2.05 | 4.26 | 30.60 | -0.05 |
|  |  | 2023 | 0.27 | 0.95 | 4.47 | 30.53 | 0.02 |
|  |  | 2019 | 0.92 | 5.63 | 3.91 | 30.80 | 0.03 |
|  |  | 2020 | 0.92 | 4.66 | 3.45 | 30.54 | 0.17 |
| 5 | BKSW | 2021 | 0.92 | 0.08 | 3.40 | 30.50 | -0.03 |
|  |  | 2022 | 0.92 | 0.38 | 2.59 | 30.40 | 0.01 |
|  |  | 2023 | 0.92 | 095 | 1.72 | 30.10 | -0.05 |
|  |  | 2019 | 0.60 | 2.39 | 4.81 | 34.90 | -0.01 |
|  |  | 2020 | 0.60 | 3.29 | 5.80 | 34.97 | -0.07 |
| 6 | BMRI | 2021 | 0.52 | 2.81 | 5.97 | 35.08 | -0.07 |
|  |  | 2022 | 0.52 | 1.88 | 6.12 | 35.20 | -0.04 |
|  |  | 2023 | 0.52 | 1.02 | 6.05 | 35.32 | 0.06 |
|  |  | 2019 | 0.91 | 1.30 | 5.34 | 33.20 | 0.01 |
|  |  | 2020 | 0.91 | 1.40 | 5.85 | 33.27 | -0.18 |
| 7 | BNGA | 2021 | 0.91 | 1.17 | 6.16 | 33.37 | -0.09 |
|  |  | 2022 | 0.91 | 0.75 | 5.78 | 33.40 | 0.10 |
|  |  | 2023 | 0.91 | 0.71 | 5.78 | 33.44 | 0.06 |
|  |  | 2019 | 0.59 | 3.33 | 5.69 | 32.80 | -0.02 |
|  |  | 2020 | 0.59 | 4.00 | 5.33 | 32.77 | -0.17 |
| 8 | BNII | 2021 | 0.59 | 3.69 | 5.08 | 32.77 | 0.00 |
|  |  | 2022 | 0.59 | 3.46 | 4.64 | 32.70 | 0.07 |
|  |  | 2023 | 0.59 | 1.80 | 4.47 | 32.78 | 0.01 |
|  |  | 2019 | 0.45 | 1.30 | 5.72 | 32.70 | 0.02 |
|  |  | 2020 | 0.99 | 1.00 | 4.64 | 32.92 | 0.02 |
| 9 | BNLI | 2021 | 0.99 | 0.70 | 5.40 | 33.09 | -0.15 |
|  |  | 2022 | 0.99 | 0.40 | 5.78 | 33.20 | -0.04 |
|  |  | 2023 | 0.99 | 0.40 | 5.44 | 33.18 | 0.14 |
|  |  | 2019 | 0.60 | 5.71 | 4.34 | 31.20 | 0.07 |
|  |  | 2020 | 0.58 | 1.87 | 5.38 | 31.43 | -0.12 |
| 10 | BSIM | 2021 | 0.58 | 1.71 | 5.27 | 31.60 | -0.23 |
|  |  | 2022 | 0.60 | 3.20 | 4.60 | 31.50 | 0.05 |
|  |  | 2023 | 0.60 | 0.48 | 4.83 | 31.59 | -0.08 |
|  |  | 2019 | 0.94 | 0.40 | 4.77 | 32.80 | 0.65 |
|  |  | 2020 | 0.94 | 0.50 | 4.56 | 32.84 | -0.11 |
| 11 | BTPN | 2021 | 0.93 | 0.40 | 4.32 | 32.89 | -0.06 |
|  |  | 2022 | 0.93 | 0.40 | 4.31 | 33.00 | 0.01 |
|  |  | 2023 | 0.93 | 0.40 | 3.88 | 32.94 | 0.00 |
|  |  | 2019 | 0.22 | 1.63 | 6.57 | 32.20 | 0.08 |
|  |  | 2020 | 0.22 | 1.60 | 6.16 | 32.16 | -0.10 |
| 12 | MAYA | 2021 | 0.27 | 2.17 | 7.52 | 32.41 | 0.04 |
|  |  | 2022 | 0.27 | 3.36 | 8.77 | 32.50 | 0.11 |
|  |  | 2023 | 0.27 | 2.94 | 7.92 | 32.58 | 0.06 |
|  |  | 2019 | 0.85 | 0.78 | 5.53 | 32.80 | -0.06 |
|  |  | 2020 | 0.85 | 0.79 | 5.92 | 32.96 | -0.07 |
| 13 | NISP | 2021 | 0.85 | 0.91 | 5.63 | 33.00 | -0.02 |
|  |  | 2022 | 0.85 | 0.96 | 5.97 | 33.10 | 0.01 |
|  |  | 2023 | 0.85 | 0.58 | 5.69 | 33.15 | -0.01 |
|  |  | 2019 | 0.46 | 1.12 | 3.75 | 33.00 | -0.03 |
|  |  | 2020 | 0.46 | 0.66 | 3.59 | 33.02 | -0.20 |
| 14 | PNBN | 2021 | 0.46 | 0.95 | 3.21 | 32.95 | -0.02 |
|  |  | 2022 | 0.46 | 0.92 | 2.99 | 33.00 | 0.04 |
|  |  | 2023 | 0.46 | 0.57 | 2.97 | 33.03 | 0.01 |
|  |  | 2019 | 0.80 | 1.64 | 4.33 | 31.20 | 0.03 |
|  |  | 2020 | 0.80 | 1.12 | 4.23 | 31.27 | 0.14 |
| 15 | SDRA | 2021 | 0.84 | 0.93 | 3.73 | 31.41 | -0.07 |
|  |  | 2022 | 0.84 | 1.05 | 4.19 | 31.60 | 0.01 |
|  |  | 2023 | 0.84 | 1.25 | 4.34 | 31.64 | 0.01 |

**Lampiran 3 : Contoh Perhitungan Manajemen Laba**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| No | Kode Perusahaan | Tahun | **(TAC/Ait-1)** | **NDA** | **Hasil** |
|  |  |  |  |  |  |
|  |  | 2019 | 0.101 | -0.1265 | 0.228 |
|  |  | 2020 | 0.351 | -0.1705 | 0.521 |
| 1 | AGRS | 2021 | 0.137 | -0.0343 | 0.172 |
|  |  | 2022 | 0.027 | -0.0904 | 0.117 |
|  |  | 2023 | 0.122 | -0.0334 | 0.155 |
|  |  | 2019 | -0.025 | 0.0130 | -0.038 |
|  |  | 2020 | -0.022 | 0.0074 | -0.030 |
| 2 | BBCA | 2021 | -0.077 | 0.0058 | -0.083 |
|  |  | 2022 | 0.005 | 0.0097 | -0.004 |
|  |  | 2023 | -0.007 | 0.0142 | -0.021 |
|  |  | 2019 | 0.035 | -0.0421 | 0.077 |
|  |  | 2020 | -0.084 | 0.0072 | -0.091 |
| 3 | BBNI | 2021 | -0.103 | -0.0191 | -0.084 |
|  |  | 2022 | -0.002 | -0.0390 | 0.038 |
|  |  | 2023 | 0.010 | -0.0233 | 0.034 |
|  |  | 2019 | 0.072 | 0.0097 | 0.062 |
|  |  | 2020 | 0.033 | 0.0312 | 0.001 |
| 4 | BBYB | 2021 | -0.250 | -0.0478 | -0.203 |
|  |  | 2022 | -0.346 | -0.2932 | -0.053 |
|  |  | 2023 | 0.081 | 0.0657 | 0.016 |
|  |  | 2019 | 0.036 | 0.0034 | 0.033 |
|  |  | 2020 | 0.168 | -0.0028 | 0.170 |
| 5 | BKSW | 2021 | -0.048 | -0.0182 | -0.030 |
|  |  | 2022 | -0.011 | -0.0157 | 0.005 |
|  |  | 2023 | -0.037 | 0.0081 | -0.045 |
|  |  | 2019 | 0.010 | 0.0198 | -0.009 |
|  |  | 2020 | -0.065 | 0.0017 | -0.067 |
| 6 | BMRI | 2021 | -0.064 | 0.0053 | -0.070 |
|  |  | 2022 | -0.032 | 0.0051 | -0.037 |
|  |  | 2023 | 0.052 | -0.0065 | 0.058 |
|  |  | 2019 | 0.007 | -0.0060 | 0.013 |
|  |  | 2020 | -0.097 | 0.0816 | -0.179 |
| 7 | BNGA | 2021 | -0.090 | -0.0043 | -0.086 |
|  |  | 2022 | 0.069 | -0.0272 | 0.096 |
|  |  | 2023 | 0.027 | -0.0367 | 0.064 |
|  |  | 2019 | -0.024 | -0.0004 | -0.023 |
|  |  | 2020 | -0.173 | -0.0047 | -0.168 |
| 8 | BNII | 2021 | 0.008 | 0.0112 | -0.003 |
|  |  | 2022 | 0.084 | 0.0149 | 0.069 |
|  |  | 2023 | 0.001 | -0.0137 | 0.014 |
|  |  | 2019 | 0.022 | -0.0009 | 0.023 |
|  |  | 2020 | -0.003 | -0.0200 | 0.017 |
| 9 | BNLI | 2021 | -0.170 | -0.0191 | -0.151 |
|  |  | 2022 | -0.064 | -0.0257 | -0.038 |
|  |  | 2023 | 0.134 | -0.0012 | 0.135 |
|  |  | 2019 | 0.040 | -0.0344 | 0.074 |
|  |  | 2020 | -0.055 | 0.0623 | -0.117 |
| 10 | BSIM | 2021 | -0.173 | 0.0554 | -0.228 |
|  |  | 2022 | 0.099 | 0.0509 | 0.048 |
|  |  | 2023 | -0.096 | -0.0148 | -0.081 |
|  |  | 2019 | 0.158 | -0.4949 | 0.653 |
|  |  | 2020 | -0.088 | 0.0164 | -0.105 |
| 11 | BTPN | 2021 | -0.055 | 0.0018 | -0.057 |
|  |  | 2022 | -0.015 | -0.0239 | 0.009 |
|  |  | 2023 | -0.016 | -0.0203 | 0.004 |
|  |  | 2019 | 0.044 | -0.0357 | 0.080 |
|  |  | 2020 | 0.000 | 0.0996 | -0.100 |
| 12 | MAYA | 2021 | -0.077 | -0.1172 | 0.040 |
|  |  | 2022 | -0.031 | -0.1373 | 0.107 |
|  |  | 2023 | 0.023 | -0.0412 | 0.064 |
|  |  | 2019 | -0.058 | 0.0057 | -0.064 |
|  |  | 2020 | -0.055 | 0.0175 | -0.072 |
| 13 | NISP | 2021 | -0.042 | -0.0212 | -0.021 |
|  |  | 2022 | -0.042 | -0.0512 | 0.009 |
|  |  | 2023 | -0.048 | -0.0375 | -0.011 |
|  |  | 2019 | -0.005 | 0.0200 | -0.025 |
|  |  | 2020 | -0.117 | 0.0856 | -0.203 |
| 14 | PNBN | 2021 | -0.006 | 0.0188 | -0.024 |
|  |  | 2022 | 0.017 | -0.0240 | 0.041 |
|  |  | 2023 | -0.004 | -0.0129 | 0.009 |
|  |  | 2019 | 0.028 | 0.0016 | 0.027 |
|  |  | 2020 | 0.147 | 0.0061 | 0.141 |
| 15 | SDRA | 2021 | -0.064 | 0.0063 | -0.070 |
|  |  | 2022 | 0.022 | 0.0082 | 0.013 |
|  |  | 2023 | 0.019 | 0.0143 | 0.005 |

**Lampiran 4 : Contoh Perhitungan GCG**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| No | Kode Perusahaan | Tahun | **KM** | **Saham Beredar** | **Hasil** |
|  |  |  |  |  |  |
|  |  | 2019 | 6828064340 | 7108349644 | 0,96 |
|  |  | 2020 | 10.945.711.398 | 11.226.007.038 | 0,98 |
| 1 | AGRS | 2021 | 16.136.453.295 | 17.666.492.048 | 0,91 |
|  |  | 2022 | 25.227.362.385 | 27.649.535.711 | 0,91 |
|  |  | 2023 | 35.227.362.385 | 37.783.204.065 | 0,93 |
|  |  | 2019 | 13545990000 | 24655010000 | 0,55 |
|  |  | 2020 | 13545990000 | 24655010000 | 0,55 |
| 2 | BBCA | 2021 | 67729950000 | 123275050000 | 0,55 |
|  |  | 2022 | 67729950000 | 123275050000 | 0,55 |
|  |  | 2023 | 67729950000 | 123275050000 | 0,55 |
|  |  | 2019 | 217006399 | 289341866 | 0,75 |
|  |  | 2020 | 217006399 | 289341866 | 0,75 |
| 3 | BBNI | 2021 | 217006399 | 289341866 | 0,75 |
|  |  | 2022 | 217006399 | 289341866 | 0,75 |
|  |  | 2023 | 434012799 | 578683733 | 0,75 |
|  |  | 2019 | 1.483.500.562 | 6.161.782.101 | 0,24 |
|  |  | 2020 | 1.664.157.909 | 6.661.795.239 | 0,25 |
| 4 | BBYB | 2021 | 2.353.594.754 | 9.421.681.836 | 0,25 |
|  |  | 2022 | 2.417.425.754 | 9.421.681.836 | 0,26 |
|  |  | 2023 | 3.289.097.507 | 12.038.815.679 | 0,27 |
|  |  | 2019 | 18900786704 | 20436685984 | 0,92 |
|  |  | 2020 | 18900786704 | 20436685984 | 0,92 |
| 5 | BKSW | 2021 | 18900786704 | 20436685984 | 0,92 |
|  |  | 2022 | 18900786704 | 20436685984 | 0,92 |
|  |  | 2023 | 18900786704 | 20436685984 | 0,92 |
|  |  | 2019 | 27999999999 | 46666666666 | 0,60 |
|  |  | 2020 | 27999999999 | 46666666666 | 0,60 |
| 6 | BMRI | 2021 | 24266666666 | 46666666666 | 0,52 |
|  |  | 2022 | 24266666666 | 46666666666 | 0,52 |
|  |  | 2023 | 48533333333 | 93333333332 | 0,52 |
|  |  | 2019 | 22991336581 | 25131606843 | 0,91 |
|  |  | 2020 | 22991336581 | 25131606843 | 0,91 |
| 7 | BNGA | 2021 | 22991336581 | 25131606843 | 0,91 |
|  |  | 2022 | 22991336581 | 25131606843 | 0,91 |
|  |  | 2023 | 22991336581 | 25131606843 | 0,91 |
|  |  | 2019 | 10972187475 | 18648656458 | 0,59 |
|  |  | 2020 | 10972187475 | 18629076758 | 0,59 |
| 8 | BNII | 2021 | 10972187475 | 18623973858 | 0,59 |
|  |  | 2022 | 10972187475 | 18648656458 | 0,59 |
|  |  | 2023 | 21944374950 | 37256798316 | 0,59 |
|  |  | 2019 | 12.495.714.666 | 28.015.858.971 | 0,45 |
|  |  | 2020 | 27.681.421.384 | 28.015.858.971 | 0,99 |
| 9 | BNLI | 2021 | 35.715.192.701 | 36.154.432.548 | 0,99 |
|  |  | 2022 | 35.715.192.701 | 36.154.432.548 | 0,99 |
|  |  | 2023 | 35.715.192.701 | 36.154.432.548 | 0,99 |
|  |  | 2019 | 10.150.092.040 | 16.981.803.206 | 0,60 |
|  |  | 2020 | 10.150.092.040 | 17.461.803.306 | 0,58 |
| 10 | BSIM | 2021 | 10.150.092.040 | 17.461.803.306 | 0,58 |
|  |  | 2022 | 11.826.853.600 | 19.716.162.403 | 0,60 |
|  |  | 2023 | 11.826.853.600 | 19.716.162.403 | 0,60 |
|  |  | 2019 | 7532311297 | 8053729969 | 0,94 |
|  |  | 2020 | 7532311297 | 8053729969 | 0,94 |
| 11 | BTPN | 2021 | 7532311297 | 8056644071 | 0,93 |
|  |  | 2022 | 7532311297 | 8056644071 | 0,93 |
|  |  | 2023 | 7532311297 | 8056814671 | 0,93 |
|  |  | 2019 | 1.384.743.686 | 6.376.916.700 | 0,22 |
|  |  | 2020 | 1.505.064.661 | 6.832.410.700 | 0,22 |
| 12 | MAYA | 2021 | 3.237.334.600 | 11.832.368.850 | 0,27 |
|  |  | 2022 | 3.237.334.600 | 11.832.368.850 | 0,27 |
|  |  | 2023 | 3.237.334.600 | 11.832.368.850 | 0,27 |
|  |  | 2019 | 19521391224 | 22945296972 | 0,85 |
|  |  | 2020 | 19521391224 | 22945296972 | 0,85 |
| 13 | NISP | 2021 | 19521391224 | 22945296972 | 0,85 |
|  |  | 2022 | 19521391224 | 22945296972 | 0,85 |
|  |  | 2023 | 19521391224 | 22945296972 | 0,85 |
|  |  | 2019 | 11.089.071.285 | 24.087.645.998 | 0,46 |
|  |  | 2020 | 11.089.071.285 | 24.087.645.998 | 0,46 |
| 14 | PNBN | 2021 | 11.089.071.285 | 24.087.645.998 | 0,46 |
|  |  | 2022 | 11.089.070.000 | 24.087.650.000 | 0,46 |
|  |  | 2023 | 11.089.071.285 | 24.087.645.998 | 0,46 |
|  |  | 2019 | 5256690211 | 6580926254 | 0,80 |
|  |  | 2020 | 5256690211 | 6580926254 | 0,80 |
| 15 | SDRA | 2021 | 7214804851 | 8568234364 | 0,84 |
|  |  | 2022 | 7214804851 | 8568234364 | 0,84 |
|  |  | 2023 | 7214804851 | 8568234364 | 0,84 |

**Lampiran 5 : Contoh Perhitungan NPL**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| No | Kode Perusahaan | Tahun | **NPL** |
|  |  |  |  |
|  |  | 2019 | 4,89 |
|  |  | 2020 | 2,52 |
| 1 | AGRS | 2021 | 1,48 |
|  |  | 2022 | 1,33 |
|  |  | 2023 | 0,95 |
|  |  | 2019 | 1,3 |
|  |  | 2020 | 1,8 |
| 2 | BBCA | 2021 | 2,2 |
|  |  | 2022 | 1,7 |
|  |  | 2023 | 1,9 |
|  |  | 2019 | 1,2 |
|  |  | 2020 | 0,9 |
| 3 | BBNI | 2021 | 0,7 |
|  |  | 2022 | 0,5 |
|  |  | 2023 | 0,6 |
|  |  | 2019 | 1,63 |
|  |  | 2020 | 2,67 |
| 4 | BBYB | 2021 | 1,19 |
|  |  | 2022 | 2,05 |
|  |  | 2023 | 0,95 |
|  |  | 2019 | 5,63 |
|  |  | 2020 | 4,66 |
| 5 | BKSW | 2021 | 0,08 |
|  |  | 2022 | 0,38 |
|  |  | 2023 | 0,95 |
|  |  | 2019 | 2,39 |
|  |  | 2020 | 3,29 |
| 6 | BMRI | 2021 | 2,81 |
|  |  | 2022 | 1,88 |
|  |  | 2023 | 1,02 |
|  |  | 2019 | 1,30 |
|  |  | 2020 | 1,40 |
| 7 | BNGA | 2021 | 1,17 |
|  |  | 2022 | 0,75 |
|  |  | 2023 | 0,71 |
|  |  | 2019 | 3,33 |
|  |  | 2020 | 4,00 |
| 8 | BNII | 2021 | 3,69 |
|  |  | 2022 | 3,46 |
|  |  | 2023 | 1,80 |
|  |  | 2019 | 1,30 |
|  |  | 2020 | 1,00 |
| 9 | BNLI | 2021 | 0,70 |
|  |  | 2022 | 0,40 |
|  |  | 2023 | 0,40 |
|  |  | 2019 | 5,71 |
|  |  | 2020 | 1,87 |
| 10 | BSIM | 2021 | 1,71 |
|  |  | 2022 | 3,20 |
|  |  | 2023 | 0,48 |
|  |  | 2019 | 0,4 |
|  |  | 2020 | 0,5 |
| 11 | BTPN | 2021 | 0,4 |
|  |  | 2022 | 0,4 |
|  |  | 2023 | 0,4 |
|  |  | 2019 | 1,63 |
|  |  | 2020 | 1,60 |
| 12 | MAYA | 2021 | 2,17 |
|  |  | 2022 | 3,36 |
|  |  | 2023 | 2,94 |
|  |  | 2019 | 0,78 |
|  |  | 2020 | 0,79 |
| 13 | NISP | 2021 | 0,91 |
|  |  | 2022 | 0,96 |
|  |  | 2023 | 0,58 |
|  |  | 2019 | 1,12 |
|  |  | 2020 | 0,66 |
| 14 | PNBN | 2021 | 0,95 |
|  |  | 2022 | 0,92 |
|  |  | 2023 | 0,57 |
|  |  | 2019 | 1,64 |
|  |  | 2020 | 1,12 |
| 15 | SDRA | 2021 | 0,93 |
|  |  | 2022 | 1,05 |
|  |  | 2023 | 1,25 |

**Lampiran 6 : Contoh Perhitungan Leverage**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| No | Kode Perusahaan | Tahun | **Total Kewajiban** | **Total Ekuitas** | **Hasil****(DER)** |
|  |  |  |  |  |  |
|  |  | 2019 | 5219244 | 1202600 | 4,34 |
|  |  | 2020 | 7.954.197 | 1.899.838 | 4,19 |
| 1 | AGRS | 2021 | 11.291.328 | 2.995.582 | 3,77 |
|  |  | 2022 | 14.136.642 | 4.168.265 | 3,39 |
|  |  | 2023 | 14.008.724 | 5.368.679 | 2,61 |
|  |  | 2019 | 740067127 | 174143156 | 4,25 |
|  |  | 2020 | 885537919 | 1075570256 | 0,82 |
| 2 | BBCA | 2021 | 1025496 | 202849 | 5,06 |
|  |  | 2022 | 1093550 | 221182 | 4,94 |
|  |  | 2023 | 1165569 | 242538 | 4,81 |
|  |  | 2019 | 688.489 | 125.004 | 5,51 |
|  |  | 2020 | 729.226 | 110.684 | 6,59 |
| 3 | BBNI | 2021 | 838.318 | 126.520 | 6,63 |
|  |  | 2022 | 889.639 | 140.198 | 6,35 |
|  |  | 2023 | 931.931 | 154.733 | 6,02 |
|  |  | 2019 | 4.177.951 | 945.783 | 4,42 |
|  |  | 2020 | 4.300.705 | 1.120.619 | 3,84 |
| 4 | BBYB | 2021 | 8.447.982 | 2.889.827 | 2,92 |
|  |  | 2022 | 15.949.690 | 3.744.590 | 4,26 |
|  |  | 2023 | 14.846.502 | 3.323.039 | 4,47 |
|  |  | 2019 | 18332221 | 4689564 | 3,91 |
|  |  | 2020 | 14185258 | 4112442 | 3,45 |
| 5 | BKSW | 2021 | 13674979 | 4026548 | 3,40 |
|  |  | 2022 | 12063668 | 4653419 | 2,59 |
|  |  | 2023 | 8183465 | 4759886 | 1,72 |
|  |  | 2019 | 1051606233 | 218852069 | 4,81 |
|  |  | 2020 | 1186905382 | 204699668 | 5,80 |
| 6 | BMRI | 2021 | 1326592237 | 222111282 | 5,97 |
|  |  | 2022 | 1544096631 | 252245455 | 6,12 |
|  |  | 2023 | 1461500789 | 241645452 | 6,05 |
|  |  | 2019 | 231.173.061 | 43.278.891 | 5,34 |
|  |  | 2020 | 239.890.554 | 41.038.939 | 5,85 |
| 7 | BNGA | 2021 | 267.398.602 | 43.388.358 | 6,16 |
|  |  | 2022 | 261.478.036 | 45.276.263 | 5,78 |
|  |  | 2023 | 285.031.862 | 49.337.371 | 5,78 |
|  |  | 2019 | 147420041 | 25887804 | 5,69 |
|  |  | 2020 | 144121218 | 27015215 | 5,33 |
| 8 | BNII | 2021 | 142835530 | 28115976 | 5,08 |
|  |  | 2022 | 135553253 | 29210195 | 4,64 |
|  |  | 2023 | 132011119 | 29531935 | 4,47 |
|  |  | 2019 | 137.413.908 | 24.037.351 | 5,72 |
|  |  | 2020 | 162.654.644 | 35.071.453 | 4,64 |
| 9 | BNLI | 2021 | 197.765.327 | 36.613.715 | 5,40 |
|  |  | 2022 | 217.495.182 | 37.617.289 | 5,78 |
|  |  | 2023 | 217.451.825 | 39.992.322 | 5,44 |
|  |  | 2019 | 26.385.919 | 6.074.463 | 4,34 |
|  |  | 2020 | 32.557.921 | 6.056.844 | 5,38 |
| 10 | BSIM | 2021 | 38.799.669 | 7.359.416 | 5,27 |
|  |  | 2022 | 33.547.181 | 7.285.008 | 4,60 |
|  |  | 2023 | 37.788.908 | 7.826.768 | 4,83 |
|  |  | 2019 | 150159457 | 31471928 | 4,77 |
|  |  | 2020 | 150201225 | 32964753 | 4,56 |
| 11 | BTPN | 2021 | 155838867 | 36078927 | 4,32 |
|  |  | 2022 | 169756680 | 39413024 | 4,31 |
|  |  | 2023 | 160165288 | 41283104 | 3,88 |
|  |  | 2019 | 81066862 | 12341969 | 6,57 |
|  |  | 2020 | 79603549 | 12914476 | 6,16 |
| 12 | MAYA | 2021 | 105125905 | 13978280 | 7,52 |
|  |  | 2022 | 121526152 | 13856660 | 8,77 |
|  |  | 2023 | 125621379 | 15867617 | 7,92 |
|  |  | 2019 | 153042184 | 27664803 | 5,53 |
|  |  | 2020 | 176467884 | 29829316 | 5,92 |
| 13 | NISP | 2021 | 182068037 | 32327571 | 5,63 |
|  |  | 2022 | 204287525 | 34211035 | 5,97 |
|  |  | 2023 | 212436871 | 37320268 | 5,69 |
|  |  | 2019 | 166845656 | 44441714 | 3,75 |
|  |  | 2020 | 170606759 | 47460332 | 3,59 |
| 14 | PNBN | 2021 | 155914795 | 48547747 | 3,21 |
|  |  | 2022 | 151844644 | 50716094 | 2,99 |
|  |  | 2023 | 158149035 | 53312485 | 2,97 |
|  |  | 2019 | 30000672 | 6935590 | 4,33 |
|  |  | 2020 | 30782968 | 7270971 | 4,23 |
| 15 | SDRA | 2021 | 34544380 | 9257191 | 3,73 |
|  |  | 2022 | 41568671 | 9930753 | 4,19 |
|  |  | 2023 | 44549099 | 10273082 | 4,34 |

**Lampiran 7 : Contoh Perhitungan Ukuran Perusahaan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| No | Kode Perusahaan | Tahun | **Total Asset** | **Firm Size** |
|  |  |  |  |  |
|  |  | 2019 | 6421844 | 29.5 |
|  |  | 2020 | 9.854.035 | 29.92 |
| 1 | AGRS | 2021 | 18.304.907 | 30.53 |
|  |  | 2022 | 14.286.910 | 30.3 |
|  |  | 2023 | 19.377.403 | 30.6 |
|  |  | 2019 | 918989312 | 34.5 |
|  |  | 2020 | 1075570256 | 34.61 |
| 2 | BBCA | 2021 | 1228344680 | 34.74 |
|  |  | 2022 | 1314731674 | 34.8 |
|  |  | 2023 | 1408107010 | 34.88 |
|  |  | 2019 | 845.605 | 34.4 |
|  |  | 2020 | 891.337 | 34.42 |
| 3 | BBNI | 2021 | 964.838 | 34.5 |
|  |  | 2022 | 1.029.837 | 34.6 |
|  |  | 2023 | 1.086.664 | 34.62 |
|  |  | 2019 | 5.123.734 | 29.3 |
|  |  | 2020 | 5.421.324 | 29.32 |
| 4 | BBYB | 2021 | 11.337.809 | 30.06 |
|  |  | 2022 | 19.694.280 | 30.6 |
|  |  | 2023 | 18.169.541 | 30.53 |
|  |  | 2019 | 23021785 | 30.8 |
|  |  | 2020 | 18297700 | 30.54 |
| 5 | BKSW | 2021 | 17701527 | 30.5 |
|  |  | 2022 | 16717087 | 30.4 |
|  |  | 2023 | 11753485 | 30.1 |
|  |  | 2019 | 1411244042 | 34.9 |
|  |  | 2020 | 1541964567 | 34.97 |
| 6 | BMRI | 2021 | 1725611128 | 35.08 |
|  |  | 2022 | 1992544687 | 35.2 |
|  |  | 2023 | 2174219449 | 35.32 |
|  |  | 2019 | 274.467.227 | 33.2 |
|  |  | 2020 | 280.943.605 | 33.27 |
| 7 | BNGA | 2021 | 310.786.960 | 33.37 |
|  |  | 2022 | 306.754.299 | 33.4 |
|  |  | 2023 | 334.369.233 | 33.44 |
|  |  | 2019 | 173307844 | 32.8 |
|  |  | 2020 | 171136433 | 32.77 |
| 8 | BNII | 2021 | 170951506 | 32.77 |
|  |  | 2022 | 164763448 | 32.7 |
|  |  | 2023 | 171803070 | 32.78 |
|  |  | 2019 | 161.451.259 | 32.7 |
|  |  | 2020 | 197.726.097 | 32.92 |
| 9 | BNLI | 2021 | 234.379.042 | 33.09 |
|  |  | 2022 | 255.112.471 | 33.2 |
|  |  | 2023 | 257.444.147 | 33.18 |
|  |  | 2019 | 36.559.556 | 31.2 |
|  |  | 2020 | 44.612.045 | 31.43 |
| 10 | BSIM | 2021 | 52.671.981 | 31.6 |
|  |  | 2022 | 47.350.601 | 31.5 |
|  |  | 2023 | 52.634.996 | 31.59 |
|  |  | 2019 | 181631385 | 32.8 |
|  |  | 2020 | 183165978 | 32.84 |
| 11 | BTPN | 2021 | 191917794 | 32.89 |
|  |  | 2022 | 209169704 | 33 |
|  |  | 2023 | 201448392 | 32.94 |
|  |  | 2019 | 93408831 | 32.2 |
|  |  | 2020 | 92518025 | 32.16 |
| 12 | MAYA | 2021 | 119104185 | 32.41 |
|  |  | 2022 | 135382812 | 32.5 |
|  |  | 2023 | 141488996 | 32.58 |
|  |  | 2019 | 180706987 | 32.8 |
|  |  | 2020 | 206297200 | 32.96 |
| 13 | NISP | 2021 | 214395608 | 33 |
|  |  | 2022 | 238498560 | 33.1 |
|  |  | 2023 | 249757139 | 33.15 |
|  |  | 2019 | 211287370 | 33 |
|  |  | 2020 | 218067091 | 33.02 |
| 14 | PNBN | 2021 | 204462542 | 32.95 |
|  |  | 2022 | 212431881 | 33 |
|  |  | 2023 | 222010050 | 33.03 |
|  |  | 2019 | 36940436 | 31.2 |
|  |  | 2020 | 38053939 | 31.27 |
| 15 | SDRA | 2021 | 43801571 | 31.41 |
|  |  | 2022 | 51499424 | 31.6 |
|  |  | 2023 | 54822181 | 31.64 |

**Lampiran 8 : Tabel Durbin-Watson (DW), α = 5%**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **n** | **k=1** | **k=2** | **k=3** | **k=4** | **k=5** |
| **dL** | **dU** | **dL** | **dU** | **dL** | **dU** | **dL** | **dU** | **dL** | **dU** |
| 6 | 0.6102 | 1.4002 |  |  |  |  |  |  |  |  |
| 7 | 0.6996 | 1.3564 | 0.4672 | 1.8964 |  |  |  |  |  |  |
| 8 | 0.7629 | 1.3324 | 0.5591 | 1.7771 | 0.3674 | 2.2866 |  |  |  |  |
| 9 | 0.8243 | 1.3199 | 0.6291 | 1.6993 | 0.4548 | 2.1282 | 0.2957 | 2.5881 |  |  |
| 10 | 0.8791 | 1.3197 | 0.6972 | 1.6413 | 0.5253 | 2.0163 | 0.3760 | 2.4137 | 0.2427 | 2.8217 |
| 11 | 0.9273 | 1.3241 | 0.7580 | 1.6044 | 0.5948 | 1.9280 | 0.4441 | 2.2833 | 0.3155 | 2.6446 |
| 12 | 0.9708 | 1.3314 | 0.8122 | 1.5794 | 0.6577 | 1.8640 | 0.5120 | 2.1766 | 0.3796 | 2.5061 |
| 13 | 1.0097 | 1.3404 | 0.8612 | 1.5621 | 0.7147 | 1.8159 | 0.5745 | 2.0943 | 0.4445 | 2.3897 |
| 14 | 1.0450 | 1.3503 | 0.9054 | 1.5507 | 0.7667 | 1.7788 | 0.6321 | 2.0296 | 0.5052 | 2.2959 |
| 15 | 1.0770 | 1.3605 | 0.9455 | 1.5432 | 0.8140 | 1.7501 | 0.6852 | 1.9774 | 0.5620 | 2.2198 |
| 16 | 1.1062 | 1.3709 | 0.9820 | 1.5386 | 0.8572 | 1.7277 | 0.7340 | 1.9351 | 0.6150 | 2.1567 |
| 17 | 1.1330 | 1.3812 | 1.0154 | 1.5361 | 0.8968 | 1.7101 | 0.7790 | 1.9005 | 0.6641 | 2.1041 |
| 18 | 1.1576 | 1.3913 | 1.0461 | 1.5353 | 0.9331 | 1.6961 | 0.8204 | 1.8719 | 0.7098 | 2.0600 |
| 19 | 1.1804 | 1.4012 | 1.0743 | 1.5355 | 0.9666 | 1.6851 | 0.8588 | 1.8482 | 0.7523 | 2.0226 |
| 20 | 1.2015 | 1.4107 | 1.1004 | 1.5367 | 0.9976 | 1.6763 | 0.8943 | 1.8283 | 0.7918 | 1.9908 |
| 21 | 1.2212 | 1.4200 | 1.1246 | 1.5385 | 1.0262 | 1.6694 | 0.9272 | 1.8116 | 0.8286 | 1.9635 |
| 22 | 1.2395 | 1.4289 | 1.1471 | 1.5408 | 1.0529 | 1.6640 | 0.9578 | 1.7974 | 0.8629 | 1.9400 |
| 23 | 1.2567 | 1.4375 | 1.1682 | 1.5435 | 1.0778 | 1.6597 | 0.9864 | 1.7855 | 0.8949 | 1.9196 |
| 24 | 1.2728 | 1.4458 | 1.1878 | 1.5464 | 1.1010 | 1.6565 | 1.0131 | 1.7753 | 0.9249 | 1.9018 |
| 25 | 1.2879 | 1.4537 | 1.2063 | 1.5495 | 1.1228 | 1.6540 | 1.0381 | 1.7666 | 0.9530 | 1.8863 |
| 26 | 1.3022 | 1.4614 | 1.2236 | 1.5528 | 1.1432 | 1.6523 | 1.0616 | 1.7591 | 0.9794 | 1.8727 |
| 27 | 1.3157 | 1.4688 | 1.2399 | 1.5562 | 1.1624 | 1.6510 | 1.0836 | 1.7527 | 1.0042 | 1.8608 |
| 28 | 1.3284 | 1.4759 | 1.2553 | 1.5596 | 1.1805 | 1.6503 | 1.1044 | 1.7473 | 1.0276 | 1.8502 |
| 29 | 1.3405 | 1.4828 | 1.2699 | 1.5631 | 1.1976 | 1.6499 | 1.1241 | 1.7426 | 1.0497 | 1.8409 |
| 30 | 1.3520 | 1.4894 | 1.2837 | 1.5666 | 1.2138 | 1.6498 | 1.1426 | 1.7386 | 1.0706 | 1.8326 |
| 31 | 1.3630 | 1.4957 | 1.2969 | 1.5701 | 1.2292 | 1.6500 | 1.1602 | 1.7352 | 1.0904 | 1.8252 |
| 32 | 1.3734 | 1.5019 | 1.3093 | 1.5736 | 1.2437 | 1.6505 | 1.1769 | 1.7323 | 1.1092 | 1.8187 |
| 33 | 1.3834 | 1.5078 | 1.3212 | 1.5770 | 1.2576 | 1.6511 | 1.1927 | 1.7298 | 1.1270 | 1.8128 |
| 34 | 1.3929 | 1.5136 | 1.3325 | 1.5805 | 1.2707 | 1.6519 | 1.2078 | 1.7277 | 1.1439 | 1.8076 |
| 35 | 1.4019 | 1.5191 | 1.3433 | 1.5838 | 1.2833 | 1.6528 | 1.2221 | 1.7259 | 1.1601 | 1.8029 |
| 36 | 1.4107 | 1.5245 | 1.3537 | 1.5872 | 1.2953 | 1.6539 | 1.2358 | 1.7245 | 1.1755 | 1.7987 |
| 37 | 1.4190 | 1.5297 | 1.3635 | 1.5904 | 1.3068 | 1.6550 | 1.2489 | 1.7233 | 1.1901 | 1.7950 |
| 38 | 1.4270 | 1.5348 | 1.3730 | 1.5937 | 1.3177 | 1.6563 | 1.2614 | 1.7223 | 1.2042 | 1.7916 |
| 39 | 1.4347 | 1.5396 | 1.3821 | 1.5969 | 1.3283 | 1.6575 | 1.2734 | 1.7215 | 1.2176 | 1.7886 |
| 40 | 1.4421 | 1.5444 | 1.3908 | 1.6000 | 1.3384 | 1.6589 | 1.2848 | 1.7209 | 1.2305 | 1.7859 |
| 41 | 1.4493 | 1.5490 | 1.3992 | 1.6031 | 1.3480 | 1.6603 | 1.2958 | 1.7205 | 1.2428 | 1.7835 |
| 42 | 1.4562 | 1.5534 | 1.4073 | 1.6061 | 1.3573 | 1.6617 | 1.3064 | 1.7202 | 1.2546 | 1.7814 |
| 43 | 1.4628 | 1.5577 | 1.4151 | 1.6091 | 1.3663 | 1.6632 | 1.3166 | 1.7200 | 1.2660 | 1.7794 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **n** | **k=1** | **k=2** | **k=3** | **k=4** | **k=5** |
| **dL** | **dU** | **dL** | **dU** | **dL** | **dU** | **dL** | **dU** | **dL** | **dU** |
| 44 | 1.4692 | 1.5619 | 1.4226 | 1.6120 | 1.3749 | 1.6647 | 1.3263 | 1.7200 | 1.2769 | 1.7777 |
| 45 | 1.4754 | 1.5660 | 1.4298 | 1.6148 | 1.3832 | 1.6662 | 1.3357 | 1.7200 | 1.2874 | 1.7762 |
| 46 | 1.4814 | 1.5700 | 1.4368 | 1.6176 | 1.3912 | 1.6677 | 1.3448 | 1.7201 | 1.2976 | 1.7748 |
| 47 | 1.4872 | 1.5739 | 1.4435 | 1.6204 | 1.3989 | 1.6692 | 1.3535 | 1.7203 | 1.3073 | 1.7736 |
| 48 | 1.4928 | 1.5776 | 1.4500 | 1.6231 | 1.4064 | 1.6708 | 1.3619 | 1.7206 | 1.3167 | 1.7725 |
| 49 | 1.4982 | 1.5813 | 1.4564 | 1.6257 | 1.4136 | 1.6723 | 1.3701 | 1.7210 | 1.3258 | 1.7716 |
| 50 | 1.5035 | 1.5849 | 1.4625 | 1.6283 | 1.4206 | 1.6739 | 1.3779 | 1.7214 | 1.3346 | 1.7708 |
| 51 | 1.5086 | 1.5884 | 1.4684 | 1.6309 | 1.4273 | 1.6754 | 1.3855 | 1.7218 | 1.3431 | 1.7701 |
| 52 | 1.5135 | 1.5917 | 1.4741 | 1.6334 | 1.4339 | 1.6769 | 1.3929 | 1.7223 | 1.3512 | 1.7694 |
| 53 | 1.5183 | 1.5951 | 1.4797 | 1.6359 | 1.4402 | 1.6785 | 1.4000 | 1.7228 | 1.3592 | 1.7689 |
| 54 | 1.5230 | 1.5983 | 1.4851 | 1.6383 | 1.4464 | 1.6800 | 1.4069 | 1.7234 | 1.3669 | 1.7684 |
| 55 | 1.5276 | 1.6014 | 1.4903 | 1.6406 | 1.4523 | 1.6815 | 1.4136 | 1.7240 | 1.3743 | 1.7681 |
| 56 | 1.5320 | 1.6045 | 1.4954 | 1.6430 | 1.4581 | 1.6830 | 1.4201 | 1.7246 | 1.3815 | 1.7678 |
| 57 | 1.5363 | 1.6075 | 1.5004 | 1.6452 | 1.4637 | 1.6845 | 1.4264 | 1.7253 | 1.3885 | 1.7675 |
| 58 | 1.5405 | 1.6105 | 1.5052 | 1.6475 | 1.4692 | 1.6860 | 1.4325 | 1.7259 | 1.3953 | 1.7673 |
| 59 | 1.5446 | 1.6134 | 1.5099 | 1.6497 | 1.4745 | 1.6875 | 1.4385 | 1.7266 | 1.4019 | 1.7672 |
| 60 | 1.5485 | 1.6162 | 1.5144 | 1.6518 | 1.4797 | 1.6889 | 1.4443 | 1.7274 | 1.4083 | 1.7671 |
| 61 | 1.5524 | 1.6189 | 1.5189 | 1.6540 | 1.4847 | 1.6904 | 1.4499 | 1.7281 | 1.4146 | 1.7671 |
| 62 | 1.5562 | 1.6216 | 1.5232 | 1.6561 | 1.4896 | 1.6918 | 1.4554 | 1.7288 | 1.4206 | 1.7671 |
| 63 | 1.5599 | 1.6243 | 1.5274 | 1.6581 | 1.4943 | 1.6932 | 1.4607 | 1.7296 | 1.4265 | 1.7671 |
| 64 | 1.5635 | 1.6268 | 1.5315 | 1.6601 | 1.4990 | 1.6946 | 1.4659 | 1.7303 | 1.4322 | 1.7672 |
| 65 | 1.5670 | 1.6294 | 1.5355 | 1.6621 | 1.5035 | 1.6960 | 1.4709 | 1.7311 | 1.4378 | 1.7673 |
| 66 | 1.5704 | 1.6318 | 1.5395 | 1.6640 | 1.5079 | 1.6974 | 1.4758 | 1.7319 | 1.4433 | 1.7675 |
| 67 | 1.5738 | 1.6343 | 1.5433 | 1.6660 | 1.5122 | 1.6988 | 1.4806 | 1.7327 | 1.4486 | 1.7676 |
| 68 | 1.5771 | 1.6367 | 1.5470 | 1.6678 | 1.5164 | 1.7001 | 1.4853 | 1.7335 | 1.4537 | 1.7678 |
| 69 | 1.5803 | 1.6390 | 1.5507 | 1.6697 | 1.5205 | 1.7015 | 1.4899 | 1.7343 | 1.4588 | 1.7680 |
| 70 | 1.5834 | 1.6413 | 1.5542 | 1.6715 | 1.5245 | 1.7028 | 1.4943 | 1.7351 | 1.4637 | 1.7683 |
| 71 | 15.865 | 16.435 | 15.577 | 16.733 | 15.284 | 17.041 | 14.987 | 17.358 | 14.685 | 17.685 |
| 72 | 15.895 | 16.457 | 15.611 | 16.751 | 15.323 | 17.054 | 15.029 | 17.366 | 14.732 | 17.688 |
| 73 | 15.924 | 16.479 | 15.645 | 16.768 | 15.360 | 17.067 | 15.071 | 17.375 | 14.778 | 17.691 |
| 74 | 15.953 | 16.500 | 15.677 | 16.785 | 15.397 | 17.079 | 15.112 | 17.383 | 14.822 | 17.694 |
| 75 | 15.981 | 16.521 | 15.709 | 16.802 | 15.432 | 17.092 | 15.151 | 17.390 | 14.866 | 17.698 |
| 76 | 16.009 | 16.541 | 15.740 | 16.819 | 15.467 | 17.104 | 15.190 | 17.399 | 14.909 | 17.701 |
| 77 | 16.036 | 16.561 | 15.771 | 16.835 | 15.502 | 17.117 | 15.228 | 17.407 | 14.950 | 17.704 |
| 78 | 16.063 | 16.581 | 15.801 | 16.851 | 15.535 | 17.129 | 15.265 | 17.415 | 14.991 | 17.708 |
| 79 | 16.089 | 16.601 | 15.830 | 16.867 | 15.568 | 17.141 | 15.302 | 17.423 | 15.031 | 17.712 |
| 80 | 16.114 | 16.620 | 15.859 | 16.882 | 15.600 | 17.153 | 15.337 | 17.430 | 15.070 | 17.716 |

**Lampiran 9 : Titik presentase distribusi t (df=1-80)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pr** | **0.25** | **0.10** | **0.05** | **0.025** | **0.01** | **0.005** | **0.001** |
| **df** | **0.50** | **0.20** | **0.10** | **0.050** | **0.02** | **0.010** | **0.002** |
| **1** | 1.00000 | 3.07768 | 6.31375 | 12.70620 | 31.82052 | 63.65674 | 318.30884 |
| **2** | 0.81650 | 1.88562 | 2.91999 | 4.30265 | 6.96456 | 9.92484 | 22.32712 |
| **3** | 0.76489 | 1.63774 | 2.35336 | 3.18245 | 4.54070 | 5.84091 | 10.21453 |
| **4** | 0.74070 | 1.53321 | 2.13185 | 2.77645 | 3.74695 | 4.60409 | 7.17318 |
| **5** | 0.72669 | 1.47588 | 2.01505 | 2.57058 | 3.36493 | 4.03214 | 5.89343 |
| **6** | 0.71756 | 1.43976 | 1.94318 | 2.44691 | 3.14267 | 3.70743 | 5.20763 |
| **7** | 0.71114 | 1.41492 | 1.89458 | 2.36462 | 2.99795 | 3.49948 | 4.78529 |
| **8** | 0.70639 | 1.39682 | 1.85955 | 2.30600 | 2.89646 | 3.35539 | 4.50079 |
| **9** | 0.70272 | 1.38303 | 1.83311 | 2.26216 | 2.82144 | 3.24984 | 4.29681 |
| **10** | 0.69981 | 1.37218 | 1.81246 | 2.22814 | 2.76377 | 3.16927 | 4.14370 |
| **11** | 0.69745 | 1.36343 | 1.79588 | 2.20099 | 2.71808 | 3.10581 | 4.02470 |
| **12** | 0.69548 | 1.35622 | 1.78229 | 2.17881 | 2.68100 | 3.05454 | 3.92963 |
| **13** | 0.69383 | 1.35017 | 1.77093 | 2.16037 | 2.65031 | 3.01228 | 3.85198 |
| **14** | 0.69242 | 1.34503 | 1.76131 | 2.14479 | 2.62449 | 2.97684 | 3.78739 |
| **15** | 0.69120 | 1.34061 | 1.75305 | 2.13145 | 2.60248 | 2.94671 | 3.73283 |
| **16** | 0.69013 | 1.33676 | 1.74588 | 2.11991 | 2.58349 | 2.92078 | 3.68615 |
| **17** | 0.68920 | 1.33338 | 1.73961 | 2.10982 | 2.56693 | 2.89823 | 3.64577 |
| **18** | 0.68836 | 1.33039 | 1.73406 | 2.10092 | 2.55238 | 2.87844 | 3.61048 |
| **19** | 0.68762 | 1.32773 | 1.72913 | 2.09302 | 2.53948 | 2.86093 | 3.57940 |
| **20** | 0.68695 | 1.32534 | 1.72472 | 2.08596 | 2.52798 | 2.84534 | 3.55181 |
| **21** | 0.68635 | 1.32319 | 1.72074 | 2.07961 | 2.51765 | 2.83136 | 3.52715 |
| **22** | 0.68581 | 1.32124 | 1.71714 | 2.07387 | 2.50832 | 2.81876 | 3.50499 |
| **23** | 0.68531 | 1.31946 | 1.71387 | 2.06866 | 2.49987 | 2.80734 | 3.48496 |
| **24** | 0.68485 | 1.31784 | 1.71088 | 2.06390 | 2.49216 | 2.79694 | 3.46678 |
| **25** | 0.68443 | 1.31635 | 1.70814 | 2.05954 | 2.48511 | 2.78744 | 3.45019 |
| **26** | 0.68404 | 1.31497 | 1.70562 | 2.05553 | 2.47863 | 2.77871 | 3.43500 |
| **27** | 0.68368 | 1.31370 | 1.70329 | 2.05183 | 2.47266 | 2.77068 | 3.42103 |
| **28** | 0.68335 | 1.31253 | 1.70113 | 2.04841 | 2.46714 | 2.76326 | 3.40816 |
| **29** | 0.68304 | 1.31143 | 1.69913 | 2.04523 | 2.46202 | 2.75639 | 3.39624 |
| **30** | 0.68276 | 1.31042 | 1.69726 | 2.04227 | 2.45726 | 2.75000 | 3.38518 |
| **31** | 0.68249 | 1.30946 | 1.69552 | 2.03951 | 2.45282 | 2.74404 | 3.37490 |
| **32** | 0.68223 | 1.30857 | 1.69389 | 2.03693 | 2.44868 | 2.73848 | 3.36531 |
| **33** | 0.68200 | 1.30774 | 1.69236 | 2.03452 | 2.44479 | 2.73328 | 3.35634 |
| **34** | 0.68177 | 1.30695 | 1.69092 | 2.03224 | 2.44115 | 2.72839 | 3.34793 |
| **35** | 0.68156 | 1.30621 | 1.68957 | 2.03011 | 2.43772 | 2.72381 | 3.34005 |
| **36** | 0.68137 | 1.30551 | 1.68830 | 2.02809 | 2.43449 | 2.71948 | 3.33262 |
| **37** | 0.68118 | 1.30485 | 1.68709 | 2.02619 | 2.43145 | 2.71541 | 3.32563 |
| **38** | 0.68100 | 1.30423 | 1.68595 | 2.02439 | 2.42857 | 2.71156 | 3.31903 |
| **39** | 0.68083 | 1.30364 | 1.68488 | 2.02269 | 2.42584 | 2.70791 | 3.31279 |
| **40** | 0.68067 | 1.30308 | 1.68385 | 2.02108 | 2.42326 | 2.70446 | 3.30688 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pr** | **0.25** | **0.10** | **0.05** | **0.025** | **0.01** | **0.005** | **0.001** |
| **df** | **0.50** | **0.20** | **0.10** | **0.050** | **0.02** | **0.010** | **0.002** |
| **41** | 0.68052 | 130.254 | 168.288 | 201.954 | 242.080 | 270.118 | 330.127 |
| **42** | 0.68038 | 130.204 | 168.195 | 201.808 | 241.847 | 269.807 | 329.595 |
| **43** | 0.68024 | 130.155 | 168.107 | 201.669 | 241.625 | 269.510 | 329.089 |
| **44** | 0.68011 | 130.109 | 168.023 | 201.537 | 241.413 | 269.228 | 328.607 |
| **45** | 0.67998 | 130.065 | 167.943 | 201.410 | 241.212 | 268.959 | 328.148 |
| **46** | 0.67986 | 130.023 | 167.866 | 201.290 | 241.019 | 268.701 | 327.710 |
| **47** | 0.67975 | 129.982 | 167.793 | 201.174 | 240.835 | 268.456 | 327.291 |
| **48** | 0.67964 | 129.944 | 167.722 | 201.063 | 240.658 | 268.220 | 326.891 |
| **49** | 0.67953 | 129.907 | 167.655 | 200.958 | 240.489 | 267.995 | 326.508 |
| **50** | 0.67943 | 129.871 | 167.591 | 200.856 | 240.327 | 267.779 | 326.141 |
| **51** | 0.67933 | 129.837 | 167.528 | 200.758 | 240.172 | 267.572 | 325.789 |
| **52** | 0.67924 | 129.805 | 167.469 | 200.665 | 240.022 | 267.373 | 325.451 |
| **53** | 0.67915 | 129.773 | 167.412 | 200.575 | 239.879 | 267.182 | 325.127 |
| **54** | 0.67906 | 129.743 | 167.356 | 200.488 | 239.741 | 266.998 | 324.815 |
| **55** | 0.67898 | 129.713 | 167.303 | 200.404 | 239.608 | 266.822 | 324.515 |
| **56** | 0.67890 | 129.685 | 167.252 | 200.324 | 239.480 | 266.651 | 324.226 |
| **57** | 0.67882 | 129.658 | 167.203 | 200.247 | 239.357 | 266.487 | 323.948 |
| **58** | 0.67874 | 129.632 | 167.155 | 200.172 | 239.238 | 266.329 | 323.680 |
| **59** | 0.67867 | 129.607 | 167.109 | 200.100 | 239.123 | 266.176 | 323.421 |
| **60** | 0.67860 | 129.582 | 167.065 | 200.030 | 239.012 | 266.028 | 323.171 |
| **61** | 0.67853 | 129.558 | 167.022 | 199.962 | 238.905 | 265.886 | 322.930 |
| **62** | 0.67847 | 129.536 | 166.980 | 199.897 | 238.801 | 265.748 | 322.696 |
| **63** | 0.67840 | 129.513 | 166.940 | 199.834 | 238.701 | 265.615 | 322.471 |
| **64** | 0.67834 | 129.492 | 166.901 | 199.773 | 238.604 | 265.485 | 322.253 |
| **65** | 0.67828 | 129.471 | 166.864 | 199.714 | 238.510 | 265.360 | 322.041 |
| **66** | 0.67823 | 129.451 | 166.827 | 199.656 | 238.419 | 265.239 | 321.837 |
| **67** | 0.67817 | 129.432 | 166.792 | 199.601 | 238.330 | 265.122 | 321.639 |
| **68** | 0.67811 | 129.413 | 166.757 | 199.547 | 238.245 | 265.008 | 321.446 |
| **69** | 0.67806 | 129.394 | 166.724 | 199.495 | 238.161 | 264.898 | 321.260 |
| **70** | 0.67801 | 129.376 | 166.691 | 199.444 | 238.081 | 264.790 | 321.079 |
| **71** | 0.67796 | 129.359 | 166.660 | 199.394 | 238.002 | 264.686 | 320.903 |
| **72** | 0.67791 | 129.342 | 166.629 | 199.346 | 237.926 | 264.585 | 320.733 |
| **73** | 0.67787 | 129.326 | 166.600 | 199.300 | 237.852 | 264.487 | 320.567 |
| **74** | 0.67782 | 129.310 | 166.571 | 199.254 | 237.780 | 264.391 | 320.406 |
| **75** | 0.67778 | 129.294 | 166.543 | 199.210 | 237.710 | 264.298 | 320.249 |
| **76** | 0.67773 | 129.279 | 166.515 | 199.167 | 237.642 | 264.208 | 320.096 |
| **77** | 0.67769 | 129.264 | 166.488 | 199.125 | 237.576 | 264.120 | 319.948 |
| **78** | 0.67765 | 129.250 | 166.462 | 199.085 | 237.511 | 264.034 | 319.804 |
| **79** | 0.67761 | 129.236 | 166.437 | 199.045 | 237.448 | 263.950 | 319.663 |
| **80** | 0.67757 | 129.222 | 166.412 | 199.006 | 237.387 | 263.869 | 319.526 |

**Lampiran 10 : Tabel Uji F**

|  |  |
| --- | --- |
| ***α =* 0,05** | **df1=(k-1)** |
| **df2=(n-k-1)** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1 | 161.448 | 199,500 | 215.707 | 224,583 | 230,162 | 233.986 | 236,768 | 238,883 |
| 2 | 18,513 | 19,000 | 19,164 | 19,247 | 19,296 | 19,330 | 19,353 | 19,371 |
| 3 | 10,128 | 9,552 | 9,277 | 9,117 | 9,013 | 8,941 | 8,887 | 8,845 |
| 4 | 7,709 | 6,944 | 6,591 | 6,388 | 6,256 | 6,163 | 6,094 | 6,041 |
| 5 | 6,608 | 5,786 | 5,409 | 5,192 | 5,050 | 4,950 | 4,876 | 4,818 |
| 6 | 5,987 | 5,143 | 4,757 | 4,534 | 4,387 | 4,284 | 4,207 | 4,147 |
| 7 | 5,591 | 4,737 | 4,347 | 4,120 | 3,972 | 3,866 | 3,787 | 3,726 |
| 8 | 5,318 | 4,459 | 4,066 | 3,838 | 3,687 | 3,581 | 3,500 | 3,438 |
| 9 | 5,117 | 4,256 | 3,863 | 3,633 | 3,482 | 3,374 | 3,293 | 3,230 |
| 10 | 4,965 | 4,103 | 3,708 | 3,478 | 3,326 | 3,217 | 3,135 | 3,072 |
| 11 | 4,844 | 3,982 | 3,587 | 3,357 | 3,204 | 3,095 | 3,012 | 2,948 |
| 12 | 4,747 | 3,885 | 3,490 | 3,259 | 3,106 | 2,996 | 2,913 | 2,849 |
| 13 | 4,667 | 3,806 | 3,411 | 3,179 | 3,025 | 2,915 | 2,832 | 2,767 |
| 14 | 4,600 | 3,739 | 3,344 | 3,112 | 2,958 | 2,848 | 2,764 | 2,699 |
| 15 | 4,543 | 3,682 | 3,287 | 3,056 | 2,901 | 2,790 | 2,707 | 2,641 |
| 16 | 4,494 | 3,634 | 3,239 | 3,007 | 2,852 | 2,741 | 2,657 | 2,591 |
| 17 | 4,451 | 3,592 | 3,197 | 2,965 | 2,810 | 2,699 | 2,614 | 2,548 |
| 18 | 4,414 | 3,555 | 3,160 | 2,928 | 2,773 | 2,661 | 2,577 | 2,510 |
| 19 | 4,381 | 3,522 | 3,127 | 2,895 | 2,740 | 2,628 | 2,544 | 2,477 |
| 20 | 4,351 | 3,493 | 3,098 | 2,866 | 2,711 | 2,599 | 2,514 | 2,447 |
| 21 | 4,325 | 3,467 | 3,072 | 2,840 | 2,685 | 2,573 | 2,488 | 2,420 |
| 22 | 4,301 | 3,443 | 3,049 | 2,817 | 2,661 | 2,549 | 2,464 | 2,397 |
| 23 | 4,279 | 3,422 | 3,028 | 2,796 | 2,640 | 2,528 | 2,442 | 2,375 |
| 24 | 4,260 | 3,403 | 3,009 | 2,776 | 2,621 | 2,508 | 2,423 | 2,355 |
| 25 | 4,242 | 3,385 | 2,991 | 2,759 | 2,603 | 2,490 | 2,405 | 2,337 |
| 26 | 4,225 | 3,369 | 2,975 | 2,743 | 2,587 | 2,474 | 2,388 | 2,321 |
| 27 | 4,210 | 3,354 | 2,960 | 2,728 | 2,572 | 2,459 | 2,373 | 2,305 |
| 28 | 4,196 | 3,340 | 2,947 | 2,714 | 2,558 | 2,445 | 2,359 | 2,291 |
| 29 | 4,183 | 3,328 | 2,934 | 2,701 | 2,545 | 2,432 | 2,346 | 2,278 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 4,171 | 3,316 | 2,922 | 2,690 | 2,534 | 2,421 | 2,334 | 2,266 |
| 31 | 4,160 | 3,305 | 2,911 | 2,679 | 2,523 | 2,409 | 2,323 | 2,255 |
| 32 | 4,149 | 3,295 | 2,901 | 2,668 | 2,512 | 2,399 | 2,313 | 2,244 |
| 33 | 4,139 | 3,285 | 2,892 | 2,659 | 2,503 | 2,389 | 2,303 | 2,235 |
| 34 | 4,130 | 3,276 | 2,883 | 2,650 | 2,494 | 2,380 | 2,294 | 2,225 |
| 35 | 4,121 | 3,267 | 2,874 | 2,641 | 2,485 | 2,372 | 2,285 | 2,217 |
| 36 | 4,113 | 3,259 | 2,866 | 2,634 | 2,477 | 2,364 | 2,277 | 2,209 |
| 37 | 4,105 | 3,252 | 2,859 | 2,626 | 2,470 | 2,356 | 2,270 | 2,201 |
| 38 | 4,098 | 3,245 | 2,852 | 2,619 | 2,463 | 2,349 | 2,262 | 2,194 |
| 39 | 4,091 | 3,238 | 2,845 | 2,612 | 2,456 | 2,342 | 2,255 | 2,187 |
| 40 | 4,085 | 3,232 | 2,839 | 2,606 | 2,449 | 2,336 | 2,249 | 2,180 |
| 41 | 4,079 | 3,226 | 2,833 | 2,600 | 2,443 | 2,330 | 2,243 | 2,174 |
| 42 | 4,073 | 3,220 | 2,827 | 2,594 | 2,438 | 2,324 | 2,237 | 2,168 |
| 43 | 4,067 | 3,214 | 2,822 | 2,589 | 2,432 | 2,318 | 2,232 | 2,163 |
| 44 | 4,062 | 3,209 | 2,816 | 2,584 | 2,427 | 2,313 | 2,226 | 2,157 |
| 45 | 4,057 | 3,204 | 2,812 | 2,579 | 2,422 | 2,308 | 2,221 | 2,152 |
| 46 | 4,052 | 3,200 | 2,807 | 2,574 | 2,417 | 2,304 | 2,216 | 2,147 |
| 47 | 4,047 | 3,195 | 2,802 | 2,570 | 2,413 | 2,299 | 2,212 | 2,143 |
| 48 | 4,043 | 3,191 | 2,798 | 2,565 | 2,409 | 2,295 | 2,207 | 2,138 |
| 49 | 4,038 | 3,187 | 2,794 | 2,561 | 2,404 | 2,290 | 2,203 | 2,134 |
| 50 | 4,034 | 3,183 | 2,790 | 2,557 | 2,400 | 2,286 | 2,199 | 2,130 |
| 51 | 4,030 | 3,179 | 2,786 | 2,553 | 2,397 | 2,283 | 2,195 | 2,126 |
| 52 | 4,027 | 3,175 | 2,783 | 2,550 | 2,393 | 2,279 | 2,192 | 2,122 |
| 53 | 4,023 | 3,172 | 2,779 | 2,546 | 2,389 | 2,275 | 2,188 | 2,119 |
| 54 | 4,020 | 3,168 | 2,776 | 2,543 | 2,386 | 2,272 | 2,185 | 2,115 |
| 55 | 4,016 | 3,165 | 2,773 | 2,540 | 2,383 | 2,269 | 2,181 | 2,112 |
| 56 | 4,013 | 3,162 | 2,769 | 2,537 | 2,380 | 2,266 | 2,178 | 2,109 |
| 57 | 4,010 | 3,159 | 2,766 | 2,534 | 2,377 | 2,263 | 2,175 | 2,106 |
| 58 | 4,007 | 3,156 | 2,764 | 2,531 | 2,374 | 2,260 | 2,172 | 2,103 |
| 59 | 4,004 | 3,153 | 2,761 | 2,528 | 2,371 | 2,257 | 2,169 | 2,100 |
| 60 | 4,001 | 3,150 | 2,758 | 2,525 | 2,368 | 2,254 | 2,167 | 2,097 |
| 61 | 3,998 | 3,148 | 2,755 | 2,523 | 2,366 | 2,251 | 2,164 | 2,094 |
| 62 | 3,996 | 3,145 | 2,753 | 2,520 | 2,363 | 2,249 | 2,161 | 2,092 |
| 63 | 3,993 | 3,143 | 2,751 | 2,518 | 2,361 | 2,246 | 2,159 | 2,089 |
| 64 | 3,991 | 3,140 | 2,748 | 2,515 | 2,358 | 2,244 | 2,156 | 2,087 |
| 65 | 3,989 | 3,138 | 2,746 | 2,513 | 2,356 | 2,242 | 2,154 | 2,084 |
| 66 | 3,986 | 3,136 | 2,744 | 2,511 | 2,354 | 2,239 | 2,152 | 2,082 |
| 67 | 3,984 | 3,134 | 2,742 | 2,509 | 2,352 | 2,237 | 2,150 | 2,080 |
| 68 | 3,982 | 3,132 | 2,740 | 2,507 | 2,350 | 2,235 | 2,148 | 2,078 |
| 69 | 3,980 | 3,130 | 2,737 | 2,505 | 2,348 | 2,233 | 2,145 | 2,076 |
| 70 | 3,978 | 3,128 | 2,736 | 2,503 | 2,346 | 2,231 | 2,143 | 2,074 |
| 71 | 3,976 | 3,126 | 2,734 | 2,501 | 2,344 | 2,229 | 2,142 | 2,072 |
| 72 | 3,974 | 3,124 | 2,732 | 2,499 | 2,342 | 2,227 | 2,140 | 2,070 |
| 73 | 3,972 | 3,122 | 2,730 | 2,497 | 2,340 | 2,226 | 2,138 | 2,068 |
| 74 | 3,970 | 3,120 | 2,728 | 2,495 | 2,338 | 2,224 | 2,136 | 2,066 |
| 75 | 3,968 | 3,119 | 2,727 | 2,494 | 2,337 | 2,222 | 2,134 | 2,064 |
| 76 | 3,967 | 3,117 | 2,725 | 2,492 | 2,335 | 2,220 | 2,133 | 2,063 |
| 77 | 3,965 | 3,115 | 2,723 | 2,490 | 2,333 | 2,219 | 2,131 | 2,061 |
| 78 | 3,963 | 3,114 | 2,722 | 2,489 | 2,332 | 2,217 | 2,129 | 2,059 |
| 79 | 3,962 | 3,112 | 2,720 | 2,487 | 2,330 | 2,216 | 2,128 | 2,058 |
| 80 | 3,960 | 3,111 | 2,719 | 2,486 | 2,329 | 2,214 | 2,126 | 2,056 |
| 81 | 3,959 | 3,109 | 2,717 | 2,484 | 2,327 | 2,213 | 2,125 | 2,055 |
| 82 | 3,957 | 3,108 | 2,716 | 2,483 | 2,326 | 2,211 | 2,123 | 2,053 |
| 83 | 3,956 | 3,107 | 2,715 | 2,482 | 2,324 | 2,210 | 2,122 | 2,052 |
| 84 | 3,955 | 3,105 | 2,713 | 2,480 | 2,323 | 2,209 | 2,121 | 2,051 |
| 85 | 3,953 | 3,104 | 2,712 | 2,479 | 2,322 | 2,207 | 2,119 | 2,049 |
| 86 | 3,952 | 3,103 | 2,711 | 2,478 | 2,321 | 2,206 | 2,118 | 2,048 |
| 87 | 3,951 | 3,101 | 2,709 | 2,476 | 2,319 | 2,205 | 2,117 | 2,047 |
| 88 | 3,949 | 3,100 | 2,708 | 2,475 | 2,318 | 2,203 | 2,115 | 2,045 |
| 89 | 3,948 | 3,099 | 2,707 | 2,474 | 2,317 | 2,202 | 2,114 | 2,044 |
| 90 | 3,947 | 3,098 | 2,706 | 2,473 | 2,316 | 2,201 | 2,113 | 2,043 |
| 91 | 3,946 | 3,097 | 2,705 | 2,472 | 2,315 | 2,200 | 2,112 | 2,042 |
| 92 | 3,945 | 3,095 | 2,704 | 2,471 | 2,313 | 2,199 | 2,111 | 2,041 |
| 93 | 3,943 | 3,094 | 2,703 | 2,470 | 2,312 | 2,198 | 2,110 | 2,040 |
| 94 | 3,942 | 3,093 | 2,701 | 2,469 | 2,311 | 2,197 | 2,109 | 2,038 |
| 95 | 3,941 | 3,092 | 2,700 | 2,467 | 2,310 | 2,196 | 2,108 | 2,037 |
| 96 | 3,940 | 3,091 | 2,699 | 2,466 | 2,309 | 2,195 | 2,106 | 2,036 |
| 97 | 3,939 | 3,090 | 2,698 | 2,465 | 2,308 | 2,194 | 2,105 | 2,035 |
| 98 | 3,938 | 3,089 | 2,697 | 2,465 | 2,307 | 2,193 | 2,104 | 2,034 |
| 99 | 3,937 | 3,088 | 2,696 | 2,464 | 2,306 | 2,192 | 2,103 | 2,033 |
| 100 | 3,936 | 3,087 | 2,696 | 2,463 | 2,305 | 2,191 | 2,103 | 2,032 |