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# LAMPIRAN

Lampiran 1 Hasil Perhitungan Perputaran Persediaan Periode 2019-2023

Harga pokok penjualan

Rata-rata persediaan

Perputaran Persediaan =

| **Kode Saham** | **Tahun** | **Harga Pokok Penjualan** | **Rata-Rata Persediaan** | **Jumlah** |
| --- | --- | --- | --- | --- |
| ARGO | 2019 | (304,423,038,130) | 85,555,942,038 | -3.558175281 |
| 2020 | (75,341,664,710) | 85,555,942,039 | -0.880612882 |
| 2021 | (108,798,067,270) | 85,555,942,039 | -1.271659977 |
| 2022 | (90,023,762,884) | 85,555,942,039 | -1.052221047 |
| 2023 | (64,997,884,470) | 85,555,942,040 | -0.759712101 |
| BATA | 2019 | (502,693,372) | 264,472,100 | -1.900742543 |
| 2020 | (361,651,349) | 264,472,100 | -1.367446128 |
| 2021 | (242,719,799) | 264,472,100 | -0.917752001 |
| 2022 | (383,431,014) | 264,472,100 | -1.449797593 |
| 2023 | (296,840,335) | 264,472,100 | -1.122388089 |
| BELL | 2019 | 509,360,697,332 | 165,705,029,281 | 3.073900047 |
| 2020 | 411,576,072,447 | 165,705,029,281 | 2.483787452 |
| 2021 | 307,788,071,414 | 165,705,029,281 | 1.857445563 |
| 2022 | 321,513,228,521 | 165,705,029,281 | 1.940274414 |
| 2023 | 374,397,863,496 | 165,705,029,281 | 2.259423659 |
| CNTX | 2019 | (421,180,150,560) | 111,101,093,294 | -3.79096315 |
| 2020 | (227,620,787,580) | 111,101,093,294 | -2.048771806 |
| 2021 | (375,160,414,440) | 111,101,093,294 | -3.376748179 |
| 2022 | (528,073,299,680) | 111,101,093,294 | -4.753088237 |
| 2023 | (404,308,361,100) | 111,101,093,294 | -3.639103353 |
| ERTX | 2019 | 1,271,613,793,550 | 385,798,687,304 | 3.296055262 |
| 2020 | 1,128,544,365,970 | 385,798,687,304 | 2.925215671 |
| 2021 | 1,409,527,808,940 | 385,798,687,304 | 3.653531895 |
| 2022 | 1,613,325,132,350 | 385,798,687,304 | 4.181779735 |
| 2023 | 1,765,115,215,730 | 385,798,687,304 | 4.575223488 |
| ESTI | 2019 | (340,950,992,540) | 891,729,937,484 | -0.382347814 |
| 2020 | (255,887,915,260) | 891,729,937,484 | -0.286956739 |
| 2021 | (418,546,268,710) | 891,729,937,484 | -0.469364379 |
| 2022 | (404,019,482,690) | 891,729,937,484 | -0.453073813 |
| 2023 | (297,418,210,830) | 891,729,937,484 | -0.333529467 |
| HDTX | 2019 | (51,798,306) | 11,871,870 | -4.363112635 |
| 2020 | (53,525,678) | 11,871,870 | -4.508613891 |
| 2021 | (52,658,671) | 11,871,870 | -4.435583526 |
|  | 2022 | (38,514,349) | 11,871,870 | -3.244168695 |
| 2023 | (29,508,584) | 11,871,870 | -2.485588538 |
| HRTA | 2019 | (2,919,727,588,456) | 1,504,654,042,234 | -1.94046439 |
| 2020 | (3,716,928,485,410) | 1,504,654,042,234 | -2.470287775 |
| 2021 | (4,665,326,852,371) | 1,504,654,042,234 | -3.100597693 |
| 2022 | (6,175,631,540,633) | 1,504,654,042,234 | -4.104353139 |
| 2023 | (11,910,293,090,365) | 1,504,654,042,234 | -7.915635592 |
| INDR | 2019 | (11,726,400,966,650) | 2,781,155,921,398 | -4.216376679 |
| 2020 | (9,032,334,223,400) | 2,781,155,921,398 | -3.247690701 |
| 2021 | (12,227,697,858,880) | 2,781,155,921,398 | -4.396624355 |
| 2022 | (13,864,903,952,270) | 2,781,155,921,398 | -4.985302638 |
| 2023 | (13,076,846,389,280) | 2,781,155,921,398 | -4.701946514 |
| INOV | 2019 | (402,648,938) | 136,915,051 | -2.940866874 |
| 2020 | (427,898,412) | 136,915,051 | -3.125283954 |
| 2021 | (499,526,385) | 136,915,051 | -3.648440265 |
| 2022 | (557,544,143) | 136,915,051 | -4.072190303 |
| 2023 | (489,640,686) | 136,915,051 | -3.576237108 |
| MYTX | 2019 | (1,860,716) | 539,065 | -3.451747006 |
| 2020 | (1,414,412) | 539,065 | -2.623824585 |
| 2021 | (1,644,169) | 539,065 | -3.050038493 |
| 2022 | (1,569,595) | 539,065 | -2.91169896 |
| 2023 | (1,294,544) | 539,065 | -2.40146179 |
| PBRX | 2019 | (9,347,664,354,550) | 3,402,870,899,444 | -2.746993533 |
| 2020 | (9,623,756,462,440) | 3,402,870,899,444 | -2.828128585 |
| 2021 | (9,919,945,566,230) | 3,402,870,899,444 | -2.915169532 |
| 2022 | (9,867,272,678,760) | 3,402,870,899,444 | -2.899690576 |
| 2023 | (8,370,452,852,700) | 3,402,870,899,444 | -2.459820869 |
| POLU | 2019 | (406,394,102,682) | 46,350,887,068 | -8.767774004 |
| 2020 | (182,338,070,216) | 46,350,887,068 | -3.933863659 |
| 2021 | (111,408,834,614) | 46,350,887,068 | -2.403596601 |
| 2022 | (100,210,809,474) | 46,350,887,068 | -2.162004134 |
| 2023 | (46,726,398,438) | 46,350,887,068 | -1.008101493 |
| POLY | 2019 | (6,046,165,209,140) | 703,619,264,891 | -8.592950067 |
| 2020 | (4,059,953,601,150) | 703,619,264,891 | -5.770100115 |
| 2021 | (5,452,725,360,030) | 703,619,264,891 | -7.749539605 |
| 2022 | (5,901,160,972,170) | 703,619,264,891 | -8.386866686 |
| 2023 | (4,684,434,676,290) | 703,619,264,891 | -6.657627086 |
| RICY | 2019 | (1,827,626,415,501) | 773,874,539,981 | -2.361657247 |
| 2020 | (1,085,721,445,836) | 773,874,539,981 | -1.402968298 |
| 2021 | (1,177,773,110,864) | 773,874,539,981 | -1.521917378 |
| 2022 | (1,002,437,426,122) | 773,874,539,981 | -1.29534876 |
| 2023 | (513,322,902,600) | 773,874,539,981 | -0.663315403 |
| SBAT | 2019 | (249,434,054,851) | 173,559,153,787 | -1.437170264 |
| 2020 | (119,305,034,698) | 173,559,153,787 | -0.687402722 |
| 2021 | (110,477,331,759) | 173,559,153,787 | -0.636539931 |
| 2022 | (79,858,690,737) | 173,559,153,787 | -0.460123762 |
| 2023 | (11,976,391,264) | 173,559,153,787 | -0.069004665 |
| SRIL | 2019 | (15,344,194,089,810) | 4,758,830,706,760 | -3.224362251 |
| 2020 | (17,109,724,200,490) | 4,758,830,706,760 | -3.595363074 |
| 2021 | (19,731,903,078,890) | 4,758,830,706,760 | -4.146376346 |
| 2022 | (12,823,544,666,050) | 4,758,830,706,760 | -2.694683937 |
| 2023 | (5,107,452,100,670) | 4,758,830,706,760 | -1.073257784 |
| SSTM | 2019 | (340,474,551,624) | 226,989,685,383 | -1.499956049 |
| 2020 | (214,249,373,220) | 226,989,685,383 | -0.943872726 |
| 2021 | (220,837,864,307) | 226,989,685,383 | -0.972898235 |
| 2022 | (254,508,383,470) | 226,989,685,383 | -1.121233254 |
| 2023 | (70,045,259,624) | 226,989,685,383 | -0.308583447 |
| TFCO | 2019 | (3,095,785,427,170) | 619,304,773,666 | -4.998807629 |
| 2020 | (2,295,255,420,090) | 619,304,773,666 | -3.706180733 |
| 2021 | (3,139,874,471,240) | 619,304,773,666 | -5.069998819 |
| 2022 | (3,516,881,220,890) | 619,304,773,666 | -5.678756842 |
| 2023 | (3,516,881,220,890) | 619,304,773,666 | -5.678756842 |
| TRIS | 2019 | 1,130,071,667,248 | 373,079,663,601 | 3.029035827 |
| 2020 | 908,604,417,353 | 373,079,663,601 | 2.435416631 |
| 2021 | 871,202,519,599 | 373,079,663,601 | 2.335164858 |
| 2022 | 1,161,335,020,516 | 373,079,663,601 | 3.11283389 |
| 2023 | 1,110,304,707,373 | 373,079,663,601 | 2.976052612 |

Sumber : Laporan Keuangan Publikasi 2019-2023

Lampiran 2 Hasil Perhitungan Perputaran Modal Kerja Periode 2019-2023

Total penjualan

Rata-rata modal kerja

Perputaran Modal Kerja =

| **Kode Saham** | **Tahun** | **Total Penjualan** | **Rata-Rata Modal Kerja** | **Jumlah** |
| --- | --- | --- | --- | --- |
| ARGO | 2019 | 314,197,883,251 | -1,478,637,413,565 | -0.212491501 |
|  | 2020 | 65,006,860,674 | -1,478,637,413,565 | -0.043964031 |
|  | 2021 | 70,234,609,525 | -1,478,637,413,565 | -0.047499548 |
|  | 2022 | 75,484,823,423 | -1,478,637,413,565 | -0.051050259 |
|  | 2023 | 76,788,392,753 | -1,478,637,413,565 | -0.051931861 |
| BATA | 2019 | 931,271,436 | 111,227,233 | 8.372692648 |
|  | 2020 | 459,584,146 | 111,227,233 | 4.131939037 |
|  | 2021 | 438,484,972 | 111,227,233 | 3.94224472 |
|  | 2022 | 643,454,175 | 111,227,233 | 5.785041645 |
|  | 2023 | 488,476,918 | 111,227,233 | 4.391702507 |
| BELL | 2019 | 714,325,706,006 | 118,653,973,612 | 6.020242595 |
|  | 2020 | 538,299,250,841 | 118,653,973,612 | 4.536714907 |
|  | 2021 | 428,170,870,794 | 118,653,973,612 | 3.608567482 |
|  | 2022 | 461,846,092,519 | 118,653,973,612 | 3.892377798 |
|  | 2023 | 538,593,189,107 | 118,653,973,612 | 4.53919218 |
| CNTX | 2019 | 466,568,273,794 | -432,969,939,265 | -1.077599693 |
|  | 2020 | 205,338,162,750 | -432,969,939,265 | -0.47425501 |
|  | 2021 | 373,482,530,712 | -432,969,939,265 | -0.862606146 |
|  | 2022 | 564,791,009,444 | -432,969,939,265 | -1.304457788 |
|  | 2023 | 433,461,630,721 | -432,969,939,265 | -1.001135625 |
| ERTX | 2019 | 1,398,580,421,053 | 74,710,823,616 | 18.71991705 |
|  | 2020 | 1,224,925,259,075 | 74,710,823,616 | 16.39555288 |
|  | 2021 | 1,517,442,868,813 | 74,710,823,616 | 20.31088396 |
|  | 2022 | 1,782,755,192,250 | 74,710,823,616 | 23.86207387 |
|  | 2023 | 1,954,726,871,174 | 74,710,823,616 | 26.16390473 |
| ESTI | 2019 | 484,124,115,853 | 40,553,298,015 | 11.9379715 |
|  | 2020 | 387,827,537,839 | 40,553,298,015 | 9.563403147 |
|  | 2021 | 497,586,360,786 | 40,553,298,015 | 12.26993574 |
|  | 2022 | 462,446,222,931 | 40,553,298,015 | 11.40341835 |
|  | 2023 | 361,628,270,073 | 40,553,298,015 | 8.917357842 |
| HDTX | 2019 | 8,369,686 | -226,396,225 | -0.036969194 |
|  | 2020 | 10,600,097 | -226,396,225 | -0.046820997 |
|  | 2021 | 11,764,292 | -226,396,225 | -0.051963287 |
|  | 2022 | 6,005,743 | -226,396,225 | -0.026527576 |
|  | 2023 | 27,908 | -226,396,225 | -0.000123271 |
| HRTA | 2019 | 3,235,522,159,813 | 2,447,460,968,612 | 1.321991321 |
|  | 2020 | 4,138,626,813,254 | 2,447,460,968,612 | 1.690987871 |
|  | 2021 | 5,237,905,426,180 | 2,447,460,968,612 | 2.140138492 |
| 2022 | 6,918,453,560,506 | 2,447,460,968,612 | 2.826788108 |
|  | 2023 | 12,857,028,724,562 | 2,447,460,968,612 | 5.253210936 |
| INDR | 2019 | 12,433,319,180,583 | 8,567,763,934,512 | 1.451174341 |
|  | 2020 | 9,539,240,393,694 | 8,567,763,934,512 | 1.113387398 |
|  | 2021 | 14,317,586,162,849 | 8,567,763,934,512 | 1.671099516 |
|  | 2022 | 15,160,341,610,799 | 8,567,763,934,512 | 1.769463039 |
|  | 2023 | 12,722,367,410,197 | 8,567,763,934,512 | 1.484911058 |
| INOV | 2019 | 494,684,971 | -74,872,221 | -6.607056187 |
|  | 2020 | 518,652,053 | -74,872,221 | -6.927162652 |
|  | 2021 | 633,300,205 | -74,872,221 | -8.458413502 |
|  | 2022 | 691,532,368 | -74,872,221 | -9.236167416 |
|  | 2023 | 600,210,346 | -74,872,221 | -8.016462421 |
| MYTX | 2019 | 1,846,733 | -1,172,712 | -1.574754074 |
|  | 2020 | 1,388,468 | -1,172,712 | -1.183980381 |
|  | 2021 | 1,702,852 | -1,172,712 | -1.452063252 |
|  | 2022 | 1,623,733 | -1,172,712 | -1.384596559 |
|  | 2023 | 1,207,058 | -1,172,712 | -1.029287668 |
| PBRX | 2019 | 10,770,136,726,864 | 6,519,830,624,356 | 1.651904374 |
|  | 2020 | 11,091,488,368,545 | 6,519,830,624,356 | 1.701192716 |
|  | 2021 | 11,165,213,635,461 | 6,519,830,624,356 | 1.712500566 |
|  | 2022 | 11,174,913,444,597 | 6,519,830,624,356 | 1.713988306 |
|  | 2023 | 9,418,967,064,899 | 6,519,830,624,356 | 1.44466438 |
| POLU | 2019 | 467,723,294,399 | 88,667,141,183 | 5.275046518 |
|  | 2020 | 196,517,768,308 | 88,667,141,183 | 2.216353947 |
|  | 2021 | 104,782,481,860 | 88,667,141,183 | 1.18175099 |
|  | 2022 | 126,547,485,872 | 88,667,141,183 | 1.427219646 |
|  | 2023 | 55,131,587,283 | 88,667,141,183 | 0.621781491 |
| POLY | 2019 | 6,490,667,438,710 | -16,012,049,534,642 | -0.405361439 |
|  | 2020 | 4,228,869,439,900 | -16,012,049,534,642 | -0.264105443 |
|  | 2021 | 6,044,041,158,225 | -16,012,049,534,642 | -0.377468303 |
|  | 2022 | 6,433,076,521,620 | -16,012,049,534,642 | -0.401764715 |
|  | 2023 | 4,718,874,998,320 | -16,012,049,534,642 | -0.294707744 |
| RICY | 2019 | 2,151,323,988,585 | 441,340,313,241 | 4.87452409 |
|  | 2020 | 1,286,059,282,439 | 441,340,313,241 | 2.913985521 |
|  | 2021 | 1,375,931,426,011 | 441,340,313,241 | 3.117620088 |
|  | 2022 | 1,214,494,538,430 | 441,340,313,241 | 2.751832321 |
|  | 2023 | 656,363,428,635 | 441,340,313,241 | 1.487204792 |
| SBAT | 2019 | 315,790,682,205 | -107,780,967,167 | -2.929929936 |
|  | 2020 | 177,551,568,583 | -107,780,967,167 | -1.647336939 |
|  | 2021 | 166,888,495,594 | -107,780,967,167 | -1.548404138 |
|  | 2022 | 111,989,805,385 | -107,780,967,167 | -1.039049921 |
|  | 2023 | 11,085,614,084 | -107,780,967,167 | -0.102853169 |
| SRIL | 2019 | 19,151,622,919,310 | 2,361,755,339,202 | 8.109063035 |
| 2020 | 20,784,036,867,720 | 2,361,755,339,202 | 8.800249765 |
|  | 2021 | 13,734,112,337,855 | 2,361,755,339,202 | 5.815213841 |
|  | 2022 | 8,500,580,540,655 | 2,361,755,339,202 | 3.599263819 |
|  | 2023 | 4,027,059,289,435 | 2,361,755,339,202 | 1.705112813 |
| SSTM | 2019 | 354,113,973,461 | 94,658,200,502 | 3.740975125 |
| 2020 | 220,499,855,235 | 94,658,200,502 | 2.329432147 |
|  | 2021 | 226,838,383,304 | 94,658,200,502 | 2.396394418 |
|  | 2022 | 260,232,693,262 | 94,658,200,502 | 2.749182764 |
|  | 2023 | 182,806,724,690 | 94,658,200,502 | 1.931229663 |
| TFCO | 2019 | 3,063,103,551,830 | 765,221,001,209 | 4.002900531 |
| 2020 | 2,410,264,935,400 | 765,221,001,209 | 3.149763182 |
|  | 2021 | 3,471,936,417,880 | 765,221,001,209 | 4.537168233 |
|  | 2022 | 3,653,711,354,545 | 765,221,001,209 | 4.774713905 |
|  | 2023 | 31,773,593,237,365 | 765,221,001,209 | 41.52211346 |
| TRIS | 2019 | 1,478,735,205,373 | 370,630,412,397 | 3.989783774 |
| 2020 | 1,141,269,765,789 | 370,630,412,397 | 3.079266373 |
|  | 2021 | 1,098,352,842,355 | 370,630,412,397 | 2.963471981 |
|  | 2022 | 1,498,011,822,265 | 370,630,412,397 | 4.041794122 |
|  | 2023 | 1,472,856,196,208 | 370,630,412,397 | 3.973921586 |

Sumber : Laporan Keuangan Publikasi 2019-2023

Lampiran 3 Hasil Perhitungan Perputaran Piutang Periode 2019-2023

Penjualan

Rata-rata piutang

Perputaran Piutang =

| **Kode Saham** | **Tahun** | **Penjualan** | **Rata-Rata Piutang** | **Jumlah** |
| --- | --- | --- | --- | --- |
| ARGO | 2019 | 314,197,883,251 | 72,012,850,748 | 4.363080756 |
|  | 2020 | 65,006,860,674 | 72,012,850,748 | 0.902711947 |
|  | 2021 | 70,234,609,525 | 72,012,850,748 | 0.975306613 |
|  | 2022 | 75,484,823,423 | 72,012,850,748 | 1.048213237 |
|  | 2023 | 76,788,392,753 | 72,012,850,748 | 1.066315136 |
| BATA | 2019 | 931,271,436 | 21,601,058 | 43.11230663 |
|  | 2020 | 459,584,146 | 21,601,058 | 21.27600167 |
|  | 2021 | 438,484,972 | 21,601,058 | 20.2992359 |
|  | 2022 | 643,454,175 | 21,601,058 | 29.78808607 |
|  | 2023 | 488,476,918 | 21,601,058 | 22.61356448 |
| BELL | 2019 | 714,325,706,006 | 106,654,647,642 | 6.697558164 |
|  | 2020 | 538,299,250,841 | 106,654,647,642 | 5.047124178 |
|  | 2021 | 428,170,870,794 | 106,654,647,642 | 4.014554267 |
|  | 2022 | 461,846,092,519 | 106,654,647,642 | 4.330295048 |
|  | 2023 | 538,593,189,107 | 106,654,647,642 | 5.04988016 |
| CNTX | 2019 | 466,568,273,794 | 99,568,443,406 | 4.68590507 |
|  | 2020 | 205,338,162,750 | 99,568,443,406 | 2.062281539 |
|  | 2021 | 373,482,530,712 | 99,568,443,406 | 3.751013051 |
|  | 2022 | 564,791,009,444 | 99,568,443,406 | 5.672389666 |
|  | 2023 | 433,461,630,721 | 99,568,443,406 | 4.353403708 |
| ERTX | 2019 | 1,398,580,421,053 | 197,699,494,240 | 7.074274147 |
|  | 2020 | 1,224,925,259,075 | 197,699,494,240 | 6.195894753 |
|  | 2021 | 1,517,442,868,813 | 197,699,494,240 | 7.675502027 |
|  | 2022 | 1,782,755,192,250 | 197,699,494,240 | 9.017500015 |
|  | 2023 | 1,954,726,871,174 | 197,699,494,240 | 9.887364046 |
| ESTI | 2019 | 484,124,115,853 | 39,260,386,576 | 12.33110924 |
|  | 2020 | 387,827,537,839 | 39,260,386,576 | 9.87834231 |
|  | 2021 | 497,586,360,786 | 39,260,386,576 | 12.67400564 |
|  | 2022 | 462,446,222,931 | 39,260,386,576 | 11.77895236 |
|  | 2023 | 361,628,270,073 | 39,260,386,576 | 9.211021633 |
| HDTX | 2019 | 8,369,686 | 18,452,785 | 0.453573051 |
|  | 2020 | 10,600,097 | 18,452,785 | 0.574444291 |
|  | 2021 | 11,764,292 | 18,452,785 | 0.637534768 |
|  | 2022 | 6,005,743 | 18,452,785 | 0.325465397 |
|  | 2023 | 27,908 | 18,452,785 | 0.0015124 |
| HRTA | 2019 | 3,235,522,159,813 | 900,382,521,046 | 3.593497302 |
|  | 2020 | 4,138,626,813,254 | 900,382,521,046 | 4.596520608 |
|  | 2021 | 5,237,905,426,180 | 900,382,521,046 | 5.817422377 |
|  | 2022 | 6,918,453,560,506 | 900,382,521,046 | 7.683904784 |
|  | 2023 | 12,857,028,724,562 | 900,382,521,046 | 14.27951834 |
| INDR | 2019 | 12,433,319,180,583 | 1,388,257,845,941 | 8.956059004 |
|  | 2020 | 9,539,240,393,694 | 1,388,257,845,941 | 6.871375099 |
|  | 2021 | 14,317,586,162,849 | 1,388,257,845,941 | 10.31334792 |
|  | 2022 | 15,160,341,610,799 | 1,388,257,845,941 | 10.92040766 |
|  | 2023 | 12,722,367,410,197 | 1,388,257,845,941 | 9.164268329 |
| INOV | 2019 | 494,684,971 | 123,982,911 | 3.9899448 |
|  | 2020 | 518,652,053 | 123,982,911 | 4.18325436 |
|  | 2021 | 633,300,205 | 123,982,911 | 5.107963669 |
|  | 2022 | 691,532,368 | 123,982,911 | 5.577642616 |
|  | 2023 | 600,210,346 | 123,982,911 | 4.841073186 |
| MYTX | 2019 | 1,846,733 | 105,946 | 17.43088932 |
|  | 2020 | 1,388,468 | 105,946 | 13.10543107 |
|  | 2021 | 1,702,852 | 105,946 | 16.07282955 |
|  | 2022 | 1,623,733 | 105,946 | 15.32604346 |
|  | 2023 | 1,207,058 | 105,946 | 11.39314368 |
| PBRX | 2019 | 10,770,136,726,864 | 2,410,012,657,063 | 4.468912931 |
|  | 2020 | 11,091,488,368,545 | 2,410,012,657,063 | 4.602253161 |
|  | 2021 | 11,165,213,635,461 | 2,410,012,657,063 | 4.632844397 |
|  | 2022 | 11,174,913,444,597 | 2,410,012,657,063 | 4.636869193 |
|  | 2023 | 9,418,967,064,899 | 2,410,012,657,063 | 3.908264563 |
| POLU | 2019 | 467,723,294,399 | 39,204,973,832 | 11.93020295 |
|  | 2020 | 196,517,768,308 | 39,204,973,832 | 5.012572363 |
|  | 2021 | 104,782,481,860 | 39,204,973,832 | 2.672683377 |
|  | 2022 | 126,547,485,872 | 39,204,973,832 | 3.227842631 |
|  | 2023 | 55,131,587,283 | 39,204,973,832 | 1.406239614 |
| POLY | 2019 | 6,490,667,438,710 | 1,133,824,420,796 | 5.724578973 |
|  | 2020 | 4,228,869,439,900 | 1,133,824,420,796 | 3.729739246 |
|  | 2021 | 6,044,041,158,225 | 1,133,824,420,796 | 5.330667648 |
|  | 2022 | 6,433,076,521,620 | 1,133,824,420,796 | 5.673785468 |
|  | 2023 | 4,718,874,998,320 | 1,133,824,420,796 | 4.161909826 |
| RICY | 2019 | 2,151,323,988,585 | 391,411,411,751 | 5.496324134 |
|  | 2020 | 1,286,059,282,439 | 391,411,411,751 | 3.285696952 |
|  | 2021 | 1,375,931,426,011 | 391,411,411,751 | 3.515307384 |
|  | 2022 | 1,214,494,538,430 | 391,411,411,751 | 3.102859298 |
|  | 2023 | 656,363,428,635 | 391,411,411,751 | 1.67691439 |
| SBAT | 2019 | 315,790,682,205 | 125,243,749,656 | 2.521408718 |
|  | 2020 | 177,551,568,583 | 125,243,749,656 | 1.417648139 |
|  | 2021 | 166,888,495,594 | 125,243,749,656 | 1.332509575 |
|  | 2022 | 111,989,805,385 | 125,243,749,656 | 0.894174805 |
|  | 2023 | 11,085,614,084 | 125,243,749,656 | 0.088512314 |
| SRIL | 2019 | 19,151,622,919,310 | 2,550,184,307,281 | 7.509897565 |
|  | 2020 | 20,784,036,867,720 | 2,550,184,307,281 | 8.150013632 |
|  | 2021 | 13,734,112,337,855 | 2,550,184,307,281 | 5.385537155 |
|  | 2022 | 8,500,580,540,655 | 2,550,184,307,281 | 3.333320073 |
|  | 2023 | 4,027,059,289,435 | 2,550,184,307,281 | 1.579124802 |
| SSTM | 2019 | 354,113,973,461 | 3,673,304,711,974 | 0.096402014 |
|  | 2020 | 220,499,855,235 | 3,673,304,711,974 | 0.060027652 |
|  | 2021 | 226,838,383,304 | 3,673,304,711,974 | 0.061753217 |
|  | 2022 | 260,232,693,262 | 3,673,304,711,974 | 0.070844298 |
|  | 2023 | 182,806,724,690 | 3,673,304,711,974 | 0.049766284 |
| TFCO | 2019 | 3,063,103,551,830 | 330,735,350,372 | 9.261494268 |
|  | 2020 | 2,410,264,935,400 | 330,735,350,372 | 7.287593941 |
|  | 2021 | 3,471,936,417,880 | 330,735,350,372 | 10.49762722 |
|  | 2022 | 3,653,711,354,545 | 330,735,350,372 | 11.04723565 |
|  | 2023 | 31,773,593,237,365 | 330,735,350,372 | 96.0695408 |
| TRIS | 2019 | 1,478,735,205,373 | 244,757,373,360 | 6.04163701 |
|  | 2020 | 1,141,269,765,789 | 244,757,373,360 | 4.662861634 |
|  | 2021 | 1,098,352,842,355 | 244,757,373,360 | 4.487516871 |
|  | 2022 | 1,498,011,822,265 | 244,757,373,360 | 6.120395074 |
|  | 2023 | 1,472,856,196,208 | 244,757,373,360 | 6.017617267 |

Sumber : Laporan Keuangan Publikasi 2019-2023

Lampiran 4 Hasil Perhitungan Profitabilitas Periode 2019-2023

Earning after taxes

Total asset

Retrurn On Assets =

| **Kode Saham** | **Tahun** | **Earning After Taxes** | **Total Assets** | **Jumlah** | **Rata-Rata** |
| --- | --- | --- | --- | --- | --- |
| ARGO | 2019 | 11,836,303 | 138,308,569 | 0.085578956 |  |
| 2020 | 8,311,594 | 130,423,643 | 0.063727663 |  |
| 2021 | 70,234,609,525 | 1,122,379,949,306 | 0.062576501 |  |
| 2022 | (97,329,335,486) | 1,131,012,816,185 | -0.086055024 |  |
| 2023 | (25,005,775,645) | 1,095,336,386,780 | -0.022829312 | 0.850499797 |
| BATA | 2019 | 23,441,338 | 863,146,554 | 0.027158005 |  |
| 2020 | -177,761,030 | 775,324,937 | -0.229272943 |  |
| 2021 | -51,233,663 | 652,742,235 | -0.078489885 |  |
| 2022 | -106,123,023 | 724,073,958 | -0.146563789 |  |
| 2023 | -80,653,873 | 681,779,567 | -0.118299047 | 0.742422057 |
| BELL | 2019 | 23,213,651,840 | 590,884,444,113 | 0.03928628 |  |
| 2020 | -16,558,668,514 | 554,235,931,111 | -0.02987657 |  |
| 2021 | 4,172,725,902 | 524,473,606,697 | 0.007956026 |  |
| 2022 | 4,462,174,046 | 525,780,962,665 | 0.008486755 |  |
| 2023 | 11,472,790,689 | 530,041,342,956 | 0.021645086 | 0.841249596 |
| CNTX | 2019 | 24,645,737,280 | 746,865,425,580 | 0.0329989 |  |
| 2020 | 66,120,168,060 | 607,712,491,920 | 0.108801726 |  |
| 2021 | 72,300,333,900 | 624,917,718,240 | 0.115695766 |  |
| 2022 | 25,221,975,420 | 673,819,245,480 | 0.037431367 |  |
| 2023 | -65,731,651,620 | 539,161,388,820 | -0.121914612 | 0.862168858 |
| ERTX | 2019 | 13,684,139,580 | 1,161,337,459,680 | 0.011783086 |  |
| 2020 | (15,780,264,960) | 1,114,861,339,080 | -0.014154464 |  |
| 2021 | 25,750,035,180 | 1,182,068,455,620 | 0.021783878 |  |
| 2022 | 63,677,298,180 | 1,279,932,729,000 | 0.049750504 |  |
| 2023 | 44,403,523,440 | 1,296,968,331,000 | 0.034236398 | 0.850566567 |
| ESTI | 2019 | -45,413,318,220 | 993,681,591,540 | -0.045702083 |  |
| 2020 | (9,397,369,440) | 885,737,402,700 | -0.010609656 |
| 2021 | 26,219,932,920 | 832,730,583,180 | 0.031486694 |  |
| 2022 | 1,078,346,940 | 783,641,236,680 | 0.001376072 |  |
| 2023 | 21,194,601,060 | 792,100,534,200 | 0.026757463 | 0.833884748 |
| HDTX | 2019 | -65,673,323 | 423,791,061 | -0.154966277 |  |
| 2020 | (47,921,139) | 384,116,199 | -0.124756881 |  |
| 2021 | (41,970,335) | 346,777,425 | -0.121029606 |  |
| 2022 | (57,362,444) | 265,693,432 | -0.21589711 |  |
| 2023 | -14,979,789 | 239,221,696 | -0.062618856 | 0.720121878 |
| HRTA | 2019 | 149,990,636,633 | 2,311,190,054,987 | 0.064897578 |  |
| 2020 | 170,679,197,734 | 2,830,686,417,461 | 0.060296046 |  |
| 2021 | 194,432,397,219 | 3,478,074,220,547 | 0.055902314 |  |
| 2022 | 254,127,589,783 | 3,849,086,552,639 | 0.066022831 |  |
| 2023 | 306,268,555,595 | 5,029,463,481,305 | 0.060894876 | 0.884668941 |
| INDR | 2019 | 676,843,133,940 | 12,252,857,470,200 | 0.055239615 |  |
| 2020 | 101,332,189,920 | 12,420,291,893,400 | 0.0081586 |  |
| 2021 | 1,375,080,314,100 | 14,723,392,504,440 | 0.093394258 |  |
| 2022 | 691,613,620,380 | 14,142,951,512,160 | 0.048901647 |  |
| 2023 | (663,584,648,640) | 13,351,089,317,040 | -0.04970266 | 0.85933191 |
| INOV | 2019 | 22,534,439 | 691,324,273 | 0.032596048 |  |
| 2020 | (9,234,526) | 796,514,753 | -0.011593666 |  |
| 2021 | 27,322,803 | 890,731,798 | 0.030674557 |  |
| 2022 | (36,392,146) | 999,571,977 | -0.036407729 |  |
| 2023 | (27,556,712) | 998,126,714 | -0.02760843 | 0.831276796 |
| MYTX | 2019 | (241,027) | 3,686,259 | -0.065385259 |  |
| 2020 | (114,827) | 3,884,567 | -0.029559794 |  |
| 2021 | (139,616) | 3,744,934 | -0.037281298 |  |
| 2022 | (21,393) | 3,959,904 | -0.005402404 |  |
| 2023 | (352,071) | 3,728,500 | -0.094426981 | 0.794657377 |
| PBRX | 2019 | 277,248,316,920 | 10,705,484,683,920 | 0.025897783 |  |
| 2020 | 314,909,273,640 | 11,270,191,833,540 | 0.027941785 |  |
| 2021 | 250,465,170,120 | 11,327,127,101,580 | 0.022111977 |  |
| 2022 | 37,989,522,540 | 11,782,729,309,740 | 0.00322417 |  |
| 2023 | 6,825,411,420 | 11,329,425,387,540 | 0.00060245 | 0.846629694 |
| POLU | 2019 | 8,991,475,073 | 343,523,377,441 | 0.026174274 |  |
| 2020 | -6,104,429,448 | 281,999,247,242 | -0.021646971 |  |
| 2021 | -51,502,558,124 | 203,215,129,901 | -0.253438601 |  |
| 2022 | -6,264,038,341 | 209,337,963,370 | -0.029923088 |  |
| 2023 | -7,135,641,918 | 198,790,386,392 | -0.035895307 | 0.780878385 |
| POLY | 2019 | (193,736,371,560) | 3,935,758,121,700 | -0.049224664 |  |
| 2020 | (334,132,431,000) | 3,756,549,686,160 | -0.088946629 |  |
| 2021 | 27,411,368,160 | 3,873,242,242,800 | 0.007077112 |  |
| 2022 | 200,222,046,540 | 3,708,523,532,280 | 0.053989693 |  |
| 2023 | (182,329,997,820) | 3,434,365,119,420 | -0.05308987 | 0.811634274 |
| RICY | 2019 | 17,219,044,542 | 1,619,854,736,252 | 0.010629993 |  |
| 2020 | -77,578,476,383 | 1,736,897,169,061 | -0.044664979 |  |
| 2021 | -66,098,078,641 | 1,694,313,967,553 | -0.039011706 |  |
| 2022 | -69,375,798,083 | 1,639,882,069,759 | -0.042305358 |  |
| 2023 | -19,770,405,083 | 1,582,199,705,720 | -0.012495518 | 0.812025405 |
| SBAT | 2019 | -44,198,394,472 | 521,661,832,270 | -0.084726142 |  |
| 2020 | -5,887,199,392 | 561,334,457,682 | -0.010487864 |  |
|  | 2021 | -47,002,475,250 | 694,230,223,329 | -0.06770445 |  |
|  | 2022 | -87,623,413,194 | 657,657,257,402 | -0.133235682 |  |
| 2023 | -23,877,111,752 | 643,066,253,205 | -0.037130096 | 0.777785961 |
| SRIL | 2019 | 1,425,230,430,480 | 25,353,433,536,300 | 0.056214494 |  |
| 2020 | 1,387,386,256,080 | 30,113,338,538,400 | 0.04607215 |  |
| 2021 | (17,582,561,928,720) | 20,067,982,179,960 | -0.876149967 |  |
| 2022 | (6,431,856,997,860) | 12,431,616,154,140 | -0.517378989 |  |
| 2023 | (1,873,200,503,580) | 10,626,119,184,900 | -0.176282655 | 0.588745839 |
| SSTM | 2019 | (16,266,732,177) | 514,765,731,890 | -0.031600262 |  |
| 2020 | (15,354,377,443) | 482,065,294,095 | -0.03185124 |  |
| 2021 | 56,749,821,815 | 471,128,491,654 | 0.120455084 |  |
| 2022 | (6,044,861,775) | 442,106,656,917 | -0.013672859 |  |
| 2023 | 1,495,136,112 | 387,399,522,959 | 0.003859417 | 0.841198357 |
| TFCO | 2019 | -85,500,754,740 | 5,098,636,427,760 | -0.016769337 |  |
| 2020 | (13,943,584,140) | 5,166,173,882,460 | -0.002699016 |  |
| 2021 | 218,265,979,920 | 5,443,081,698,720 | 0.040099707 |  |
| 2022 | 55,540,452,720 | 5,432,503,511,820 | 0.010223731 |  |
| 2023 | 53,616,894,720 | 5,453,269,027,740 | 0.009832065 | 0.840114525 |
| TRIS | 2019 | 23,236,898,190 | 1,147,246,311,331 | 0.020254498 |  |
| 2020 | (3,987,303,838) | 1,068,940,700,530 | -0.003730145 |  |
| 2021 | 18,024,581,177 | 1,060,742,742,644 | 0.016992415 |  |
| 2022 | 64,521,509,302 | 1,177,807,599,498 | 0.054781026 |  |
| 2023 | 68,176,777,896 | 1,169,584,274,422 | 0.058291463 | 0.857764876 |

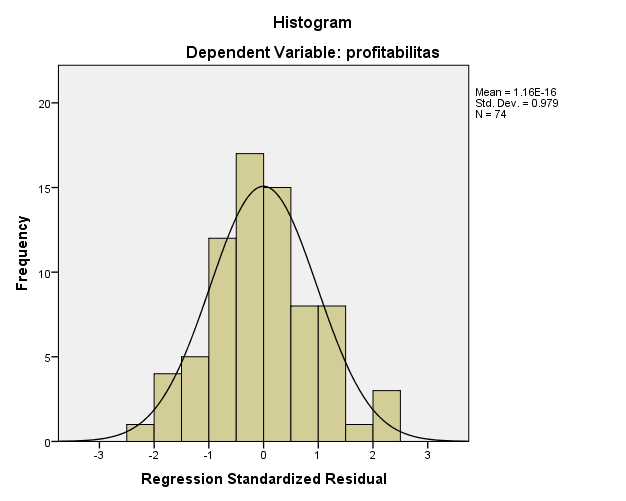
Sumber : laporan keuangan publikasi 2019-2023

Lampiran 5 Hasil Uji Statistik Deskriptif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptive Statistics** | | | | | |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| Profitabilitas | 74 | -.16 | .12 | -.15 | .06097 |
| Perputaran Persediaan | 74 | -7.92 | 3.11 | -2.1257 | 2.51951 |
| Perputaran Modal Kerja | 74 | -6.61 | 9.56 | 1.7203 | 2.80458 |
| Perputaran Piutang | 74 | .00 | 17.43 | 5.1916 | 4.11465 |
| Valid N (listwise) | 74 |  |  |  |  |

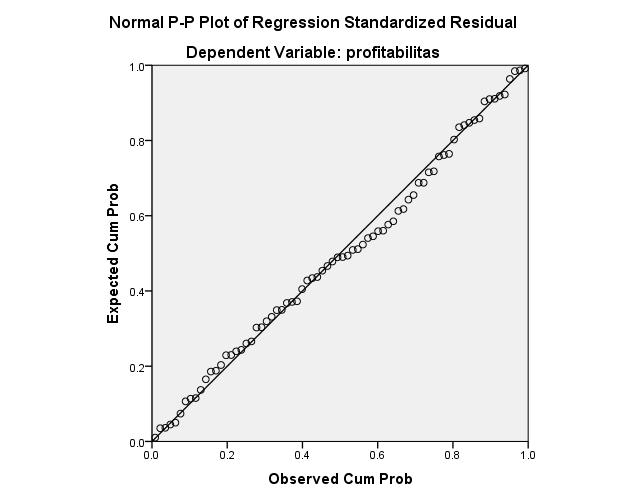
Sumber: Olah Data SPSS Versi 22 Tahun 2024

Lampiran 6 Hasil Uji Normalitas

1. Grafik Histogram Uji Normalitas

Sumber : Olah Data SPSS Versi 22 tahun 2024

1. Grafik Normal P-Plot Of Regression Normalitas



Sumber : Olah Data SPSS Versi 22 tahun 2024

1. Uji Normalitas Kolmogorov-Smirnov Test

|  |  |  |
| --- | --- | --- |
| **One-Sample Kolmogorov-Smirnov Test** | | |
|  | | Unstandardized Residual |
| N | | 74 |
| Normal Parametersa,b | Mean | .0000000 |
| Std. Deviation | .05766909 |
| Most Extreme Differences | Absolute | .062 |
| Positive | .062 |
| Negative | -.035 |
| Test Statistic | | .062 |
| Asymp. Sig. (2-tailed) | | .200c,d |
| a. Test distribution is Normal. | | |
| b. Calculated from data. | | |
| c. Lilliefors Significance Correction. | | |
| d. This is a lower bound of the true significance. | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 7 Hasil Uji Multikolonieritas

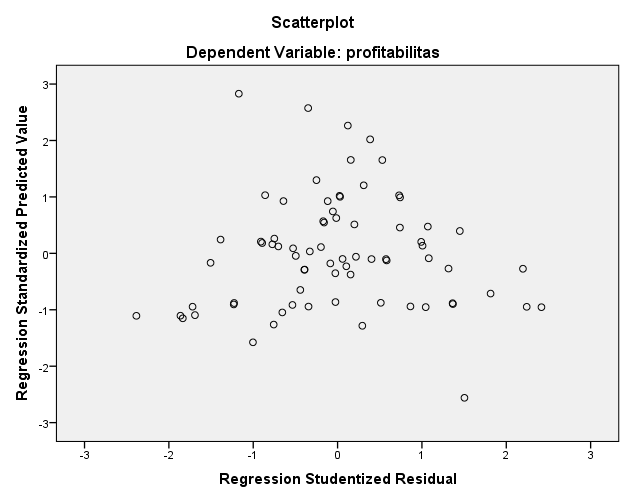
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Coefficientsa** | | | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | T | Sig. | Collinearity Statistics | |
| B | Std. Error | Beta | Tolerance | VIF |
| 1 | (Constant) | -.020 | .012 |  | -1.612 | .111 |  |  |
| Perputaran Persediaan | .001 | .003 | .042 | .332 | .741 | .813 | 1.230 |
| Perputaran Modal Kerja | .006 | .003 | .262 | 2.141 | .036 | .857 | 1.168 |
| Perputaran Piutang | .002 | .002 | .137 | 1.107 | .272 | .833 | 1.201 |
| a. Dependent Variable: Profitabilitas | | | | | | | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 8 Hasil Uji Autokolerasi

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model Summaryb** | | | | | |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1 | .616a | .380 | .353 | .02602 | 2.040 |
| a. Predictors: (Constant), LAG\_X1, LAG\_X2, LAG\_X3 | | | | | |
| b. Dependent Variable: Y1 | | | | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 9 Hasil Uji Heteroskedastisitas

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 10 Hasil Analisis Regresi Linier Berganda

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Coefficientsa** | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | |
| B | Std. Error | Beta |
| 1 | (Constant) | -.020 | .012 |  | -1.612 | .111 | |
| perputaran persediaan | .001 | .003 | .042 | .332 | .741 | |
| perputaran modal kerja | .006 | .003 | .262 | 2.141 | .036 | |
| perputaran piutang | .002 | .002 | .137 | 1.107 | .272 | |
| a. Dependent Variable: profitabilitas | | | | | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 11 Hasil Uji Hipotesis

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Coefficientsa** | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | |
| B | Std. Error | Beta |
| 1 | (Constant) | -.020 | .012 |  | -1.612 | .111 | |
| perputaran persediaan | .001 | .003 | .042 | .332 | .741 | |
| perputaran modal kerja | .006 | .003 | .262 | 2.141 | .036 | |
| perputaran piutang | .002 | .002 | .137 | 1.107 | .272 | |
| a. Dependent Variable: profitabilitas | | | | | | |

1. Uji Parsial (Uji T)

Sumber : Olah Data SPSS Versi 22 tahun 2024

1. Uji Simultan (Uji F)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVAa** | | | | | | |
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | .029 | 3 | .010 | 2.745 | .049b |
| Residual | .243 | 70 | .003 |  |  |
| Total | .271 | 73 |  |  |  |
| a. Dependent Variable: profitabilitas | | | | | | |
| b. Predictors: (Constant), perputaran piutang, perputaran modal kerja, perputaran persediaan | | | | | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

Lampiran 12 Hasil Uji Koefisien Determinasi

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model Summary** | | | | |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1 | .616a | .380 | .353 | .02602 |
| a. Predictors: (Constant), LAG\_X1, LAG\_X2, LAG\_X3 | | | | |

Sumber : Olah Data SPSS Versi 22 tahun 2024

# Lampiran 13 Tabel t

# Titik Persentase Distribusi t (df = 1 – 40)

| **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 |

# Titik Persentase Distribusi t (df = 41 – 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** |
| **41** | 0.68052 | 1.30254 | 1.68288 | 2.01954 | 2.42080 | 2.70118 | 3.30127 |
| **42** | 0.68038 | 1.30204 | 1.68195 | 2.01808 | 2.41847 | 2.69807 | 3.29595 |
| **43** | 0.68024 | 1.30155 | 1.68107 | 2.01669 | 2.41625 | 2.69510 | 3.29089 |
| **44** | 0.68011 | 1.30109 | 1.68023 | 2.01537 | 2.41413 | 2.69228 | 3.28607 |
| **45** | 0.67998 | 1.30065 | 1.67943 | 2.01410 | 2.41212 | 2.68959 | 3.28148 |
| **46** | 0.67986 | 1.30023 | 1.67866 | 2.01290 | 2.41019 | 2.68701 | 3.27710 |
| **47** | 0.67975 | 1.29982 | 1.67793 | 2.01174 | 2.40835 | 2.68456 | 3.27291 |
| **48** | 0.67964 | 1.29944 | 1.67722 | 2.01063 | 2.40658 | 2.68220 | 3.26891 |
| **49** | 0.67953 | 1.29907 | 1.67655 | 2.00958 | 2.40489 | 2.67995 | 3.26508 |
| **50** | 0.67943 | 1.29871 | 1.67591 | 2.00856 | 2.40327 | 2.67779 | 3.26141 |
| **51** | 0.67933 | 1.29837 | 1.67528 | 2.00758 | 2.40172 | 2.67572 | 3.25789 |
| **52** | 0.67924 | 1.29805 | 1.67469 | 2.00665 | 2.40022 | 2.67373 | 3.25451 |
| **53** | 0.67915 | 1.29773 | 1.67412 | 2.00575 | 2.39879 | 2.67182 | 3.25127 |
| **54** | 0.67906 | 1.29743 | 1.67356 | 2.00488 | 2.39741 | 2.66998 | 3.24815 |
| **55** | 0.67898 | 1.29713 | 1.67303 | 2.00404 | 2.39608 | 2.66822 | 3.24515 |
| **56** | 0.67890 | 1.29685 | 1.67252 | 2.00324 | 2.39480 | 2.66651 | 3.24226 |
| **57** | 0.67882 | 1.29658 | 1.67203 | 2.00247 | 2.39357 | 2.66487 | 3.23948 |
| **58** | 0.67874 | 1.29632 | 1.67155 | 2.00172 | 2.39238 | 2.66329 | 3.23680 |
| **59** | 0.67867 | 1.29607 | 1.67109 | 2.00100 | 2.39123 | 2.66176 | 3.23421 |
| **60** | 0.67860 | 1.29582 | 1.67065 | 2.00030 | 2.39012 | 2.66028 | 3.23171 |
| **61** | 0.67853 | 1.29558 | 1.67022 | 1.99962 | 2.38905 | 2.65886 | 3.22930 |
| **62** | 0.67847 | 1.29536 | 1.66980 | 1.99897 | 2.38801 | 2.65748 | 3.22696 |
| **63** | 0.67840 | 1.29513 | 1.66940 | 1.99834 | 2.38701 | 2.65615 | 3.22471 |
| **64** | 0.67834 | 1.29492 | 1.66901 | 1.99773 | 2.38604 | 2.65485 | 3.22253 |
| **65** | 0.67828 | 1.29471 | 1.66864 | 1.99714 | 2.38510 | 2.65360 | 3.22041 |
| **66** | 0.67823 | 1.29451 | 1.66827 | 1.99656 | 2.38419 | 2.65239 | 3.21837 |
| **67** | 0.67817 | 1.29432 | 1.66792 | 1.99601 | 2.38330 | 2.65122 | 3.21639 |
| **68** | 0.67811 | 1.29413 | 1.66757 | 1.99547 | 2.38245 | 2.65008 | 3.21446 |
| **69** | 0.67806 | 1.29394 | 1.66724 | 1.99495 | 2.38161 | 2.64898 | 3.21260 |
| **71** | 0.67796 | 1.29359 | 1.66660 | 1.99394 | 2.38002 | 2.64686 | 3.20903 |
| **72** | 0.67791 | 1.29342 | 1.66629 | 1.99346 | 2.37926 | 2.64585 | 3.20733 |
| **73** | 0.67787 | 1.29326 | 1.66600 | 1.99300 | 2.37852 | 2.64487 | 3.20567 |
| **74** | 0.67782 | 1.29310 | 1.66571 | 1.99254 | 2.37780 | 2.64391 | 3.20406 |
| **75** | 0.67778 | 1.29294 | 1.66543 | 1.99210 | 2.37710 | 2.64298 | 3.20249 |
| **76** | 0.67773 | 1.29279 | 1.66515 | 1.99167 | 2.37642 | 2.64208 | 3.20096 |
| **77** | 0.67769 | 1.29264 | 1.66488 | 1.99125 | 2.37576 | 2.64120 | 3.19948 |
| **78** | 0.67765 | 1.29250 | 1.66462 | 1.99085 | 2.37511 | 2.64034 | 3.19804 |
| **79** | 0.67761 | 1.29236 | 1.66437 | 1.99045 | 2.37448 | 2.63950 | 3.19663 |
| **80** | 0.67757 | 1.29222 | 1.66412 | 1.99006 | 2.37387 | 2.63869 | 3.19526 |

Lampiran 14 tabel f

| **df untuk**  **penyebut (N2)** | **df untuk pembilang (N1)** | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **1** | 161 | 199 | 216 | 225 | 230 | 234 | 237 | 239 | 241 | 242 | 243 | 244 | 245 | 245 | 246 |
| **2** | 18.51 | 19.00 | 19.16 | 19.25 | 19.30 | 19.33 | 19.35 | 19.37 | 19.38 | 19.40 | 19.40 | 19.41 | 19.42 | 19.42 | 19.43 |
| **3** | 10.13 | 9.55 | 9.28 | 9.12 | 9.01 | 8.94 | 8.89 | 8.85 | 8.81 | 8.79 | 8.76 | 8.74 | 8.73 | 8.71 | 8.70 |
| **4** | 7.71 | 6.94 | 6.59 | 6.39 | 6.26 | 6.16 | 6.09 | 6.04 | 6.00 | 5.96 | 5.94 | 5.91 | 5.89 | 5.87 | 5.86 |
| **5** | 6.61 | 5.79 | 5.41 | 5.19 | 5.05 | 4.95 | 4.88 | 4.82 | 4.77 | 4.74 | 4.70 | 4.68 | 4.66 | 4.64 | 4.62 |
| **6** | 5.99 | 5.14 | 4.76 | 4.53 | 4.39 | 4.28 | 4.21 | 4.15 | 4.10 | 4.06 | 4.03 | 4.00 | 3.98 | 3.96 | 3.94 |
| **7** | 5.59 | 4.74 | 4.35 | 4.12 | 3.97 | 3.87 | 3.79 | 3.73 | 3.68 | 3.64 | 3.60 | 3.57 | 3.55 | 3.53 | 3.51 |
| **8** | 5.32 | 4.46 | 4.07 | 3.84 | 3.69 | 3.58 | 3.50 | 3.44 | 3.39 | 3.35 | 3.31 | 3.28 | 3.26 | 3.24 | 3.22 |
| **9** | 5.12 | 4.26 | 3.86 | 3.63 | 3.48 | 3.37 | 3.29 | 3.23 | 3.18 | 3.14 | 3.10 | 3.07 | 3.05 | 3.03 | 3.01 |
| **10** | 4.96 | 4.10 | 3.71 | 3.48 | 3.33 | 3.22 | 3.14 | 3.07 | 3.02 | 2.98 | 2.94 | 2.91 | 2.89 | 2.86 | 2.85 |
| **11** | 4.84 | 3.98 | 3.59 | 3.36 | 3.20 | 3.09 | 3.01 | 2.95 | 2.90 | 2.85 | 2.82 | 2.79 | 2.76 | 2.74 | 2.72 |
| **12** | 4.75 | 3.89 | 3.49 | 3.26 | 3.11 | 3.00 | 2.91 | 2.85 | 2.80 | 2.75 | 2.72 | 2.69 | 2.66 | 2.64 | 2.62 |
| **13** | 4.67 | 3.81 | 3.41 | 3.18 | 3.03 | 2.92 | 2.83 | 2.77 | 2.71 | 2.67 | 2.63 | 2.60 | 2.58 | 2.55 | 2.53 |
| **14** | 4.60 | 3.74 | 3.34 | 3.11 | 2.96 | 2.85 | 2.76 | 2.70 | 2.65 | 2.60 | 2.57 | 2.53 | 2.51 | 2.48 | 2.46 |
| **15** | 4.54 | 3.68 | 3.29 | 3.06 | 2.90 | 2.79 | 2.71 | 2.64 | 2.59 | 2.54 | 2.51 | 2.48 | 2.45 | 2.42 | 2.40 |
| **16** | 4.49 | 3.63 | 3.24 | 3.01 | 2.85 | 2.74 | 2.66 | 2.59 | 2.54 | 2.49 | 2.46 | 2.42 | 2.40 | 2.37 | 2.35 |
| **17** | 4.45 | 3.59 | 3.20 | 2.96 | 2.81 | 2.70 | 2.61 | 2.55 | 2.49 | 2.45 | 2.41 | 2.38 | 2.35 | 2.33 | 2.31 |
| **18** | 4.41 | 3.55 | 3.16 | 2.93 | 2.77 | 2.66 | 2.58 | 2.51 | 2.46 | 2.41 | 2.37 | 2.34 | 2.31 | 2.29 | 2.27 |
| **19** | 4.38 | 3.52 | 3.13 | 2.90 | 2.74 | 2.63 | 2.54 | 2.48 | 2.42 | 2.38 | 2.34 | 2.31 | 2.28 | 2.26 | 2.23 |
| **20** | 4.35 | 3.49 | 3.10 | 2.87 | 2.71 | 2.60 | 2.51 | 2.45 | 2.39 | 2.35 | 2.31 | 2.28 | 2.25 | 2.22 | 2.20 |
| **21** | 4.32 | 3.47 | 3.07 | 2.84 | 2.68 | 2.57 | 2.49 | 2.42 | 2.37 | 2.32 | 2.28 | 2.25 | 2.22 | 2.20 | 2.18 |
| **22** | 4.30 | 3.44 | 3.05 | 2.82 | 2.66 | 2.55 | 2.46 | 2.40 | 2.34 | 2.30 | 2.26 | 2.23 | 2.20 | 2.17 | 2.15 |
| **23** | 4.28 | 3.42 | 3.03 | 2.80 | 2.64 | 2.53 | 2.44 | 2.37 | 2.32 | 2.27 | 2.24 | 2.20 | 2.18 | 2.15 | 2.13 |
| **24** | 4.26 | 3.40 | 3.01 | 2.78 | 2.62 | 2.51 | 2.42 | 2.36 | 2.30 | 2.25 | 2.22 | 2.18 | 2.15 | 2.13 | 2.11 |
| **25** | 4.24 | 3.39 | 2.99 | 2.76 | 2.60 | 2.49 | 2.40 | 2.34 | 2.28 | 2.24 | 2.20 | 2.16 | 2.14 | 2.11 | 2.09 |
| **26** | 4.23 | 3.37 | 2.98 | 2.74 | 2.59 | 2.47 | 2.39 | 2.32 | 2.27 | 2.22 | 2.18 | 2.15 | 2.12 | 2.09 | 2.07 |
| **27** | 4.21 | 3.35 | 2.96 | 2.73 | 2.57 | 2.46 | 2.37 | 2.31 | 2.25 | 2.20 | 2.17 | 2.13 | 2.10 | 2.08 | 2.06 |
| **28** | 4.20 | 3.34 | 2.95 | 2.71 | 2.56 | 2.45 | 2.36 | 2.29 | 2.24 | 2.19 | 2.15 | 2.12 | 2.09 | 2.06 | 2.04 |
| **29** | 4.18 | 3.33 | 2.93 | 2.70 | 2.55 | 2.43 | 2.35 | 2.28 | 2.22 | 2.18 | 2.14 | 2.10 | 2.08 | 2.05 | 2.03 |
| **30** | 4.17 | 3.32 | 2.92 | 2.69 | 2.53 | 2.42 | 2.33 | 2.27 | 2.21 | 2.16 | 2.13 | 2.09 | 2.06 | 2.04 | 2.01 |
| **31** | 4.16 | 3.30 | 2.91 | 2.68 | 2.52 | 2.41 | 2.32 | 2.25 | 2.20 | 2.15 | 2.11 | 2.08 | 2.05 | 2.03 | 2.00 |
| **32** | 4.15 | 3.29 | 2.90 | 2.67 | 2.51 | 2.40 | 2.31 | 2.24 | 2.19 | 2.14 | 2.10 | 2.07 | 2.04 | 2.01 | 1.99 |
| **33** | 4.14 | 3.28 | 2.89 | 2.66 | 2.50 | 2.39 | 2.30 | 2.23 | 2.18 | 2.13 | 2.09 | 2.06 | 2.03 | 2.00 | 1.98 |
| **34** | 4.13 | 3.28 | 2.88 | 2.65 | 2.49 | 2.38 | 2.29 | 2.23 | 2.17 | 2.12 | 2.08 | 2.05 | 2.02 | 1.99 | 1.97 |
| **35** | 4.12 | 3.27 | 2.87 | 2.64 | 2.49 | 2.37 | 2.29 | 2.22 | 2.16 | 2.11 | 2.07 | 2.04 | 2.01 | 1.99 | 1.96 |
| **36** | 4.11 | 3.26 | 2.87 | 2.63 | 2.48 | 2.36 | 2.28 | 2.21 | 2.15 | 2.11 | 2.07 | 2.03 | 2.00 | 1.98 | 1.95 |
| **37** | 4.11 | 3.25 | 2.86 | 2.63 | 2.47 | 2.36 | 2.27 | 2.20 | 2.14 | 2.10 | 2.06 | 2.02 | 2.00 | 1.97 | 1.95 |
| **38** | 4.10 | 3.24 | 2.85 | 2.62 | 2.46 | 2.35 | 2.26 | 2.19 | 2.14 | 2.09 | 2.05 | 2.02 | 1.99 | 1.96 | 1.94 |
| **39** | 4.09 | 3.24 | 2.85 | 2.61 | 2.46 | 2.34 | 2.26 | 2.19 | 2.13 | 2.08 | 2.04 | 2.01 | 1.98 | 1.95 | 1.93 |
| **40** | 4.08 | 3.23 | 2.84 | 2.61 | 2.45 | 2.34 | 2.25 | 2.18 | 2.12 | 2.08 | 2.04 | 2.00 | 1.97 | 1.95 | 1.92 |
| **41** | 4.08 | 3.23 | 2.83 | 2.60 | 2.44 | 2.33 | 2.24 | 2.17 | 2.12 | 2.07 | 2.03 | 2.00 | 1.97 | 1.94 | 1.92 |
| **42** | 4.07 | 3.22 | 2.83 | 2.59 | 2.44 | 2.32 | 2.24 | 2.17 | 2.11 | 2.06 | 2.03 | 1.99 | 1.96 | 1.94 | 1.91 |
| **43** | 4.07 | 3.21 | 2.82 | 2.59 | 2.43 | 2.32 | 2.23 | 2.16 | 2.11 | 2.06 | 2.02 | 1.99 | 1.96 | 1.93 | 1.91 |
| **44** | 4.06 | 3.21 | 2.82 | 2.58 | 2.43 | 2.31 | 2.23 | 2.16 | 2.10 | 2.05 | 2.01 | 1.98 | 1.95 | 1.92 | 1.90 |
| **45** | 4.06 | 3.20 | 2.81 | 2.58 | 2.42 | 2.31 | 2.22 | 2.15 | 2.10 | 2.05 | 2.01 | 1.97 | 1.94 | 1.92 | 1.89 |

| **df untuk**  **penyebut (N2)** | **df untuk pembilang (N1)** | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| **46** | 4.05 | 3.20 | 2.81 | 2.57 | 2.42 | 2.30 | 2.22 | 2.15 | 2.09 | 2.04 | 2.00 | 1.97 | 1.94 | 1.91 | 1.89 |
| **47** | 4.05 | 3.20 | 2.80 | 2.57 | 2.41 | 2.30 | 2.21 | 2.14 | 2.09 | 2.04 | 2.00 | 1.96 | 1.93 | 1.91 | 1.88 |
| **48** | 4.04 | 3.19 | 2.80 | 2.57 | 2.41 | 2.29 | 2.21 | 2.14 | 2.08 | 2.03 | 1.99 | 1.96 | 1.93 | 1.90 | 1.88 |
| **49** | 4.04 | 3.19 | 2.79 | 2.56 | 2.40 | 2.29 | 2.20 | 2.13 | 2.08 | 2.03 | 1.99 | 1.96 | 1.93 | 1.90 | 1.88 |
| **50** | 4.03 | 3.18 | 2.79 | 2.56 | 2.40 | 2.29 | 2.20 | 2.13 | 2.07 | 2.03 | 1.99 | 1.95 | 1.92 | 1.89 | 1.87 |
| **51** | 4.03 | 3.18 | 2.79 | 2.55 | 2.40 | 2.28 | 2.20 | 2.13 | 2.07 | 2.02 | 1.98 | 1.95 | 1.92 | 1.89 | 1.87 |
| **52** | 4.03 | 3.18 | 2.78 | 2.55 | 2.39 | 2.28 | 2.19 | 2.12 | 2.07 | 2.02 | 1.98 | 1.94 | 1.91 | 1.89 | 1.86 |
| **53** | 4.02 | 3.17 | 2.78 | 2.55 | 2.39 | 2.28 | 2.19 | 2.12 | 2.06 | 2.01 | 1.97 | 1.94 | 1.91 | 1.88 | 1.86 |
| **54** | 4.02 | 3.17 | 2.78 | 2.54 | 2.39 | 2.27 | 2.18 | 2.12 | 2.06 | 2.01 | 1.97 | 1.94 | 1.91 | 1.88 | 1.86 |
| **55** | 4.02 | 3.16 | 2.77 | 2.54 | 2.38 | 2.27 | 2.18 | 2.11 | 2.06 | 2.01 | 1.97 | 1.93 | 1.90 | 1.88 | 1.85 |
| **56** | 4.01 | 3.16 | 2.77 | 2.54 | 2.38 | 2.27 | 2.18 | 2.11 | 2.05 | 2.00 | 1.96 | 1.93 | 1.90 | 1.87 | 1.85 |
| **57** | 4.01 | 3.16 | 2.77 | 2.53 | 2.38 | 2.26 | 2.18 | 2.11 | 2.05 | 2.00 | 1.96 | 1.93 | 1.90 | 1.87 | 1.85 |
| **58** | 4.01 | 3.16 | 2.76 | 2.53 | 2.37 | 2.26 | 2.17 | 2.10 | 2.05 | 2.00 | 1.96 | 1.92 | 1.89 | 1.87 | 1.84 |
| **59** | 4.00 | 3.15 | 2.76 | 2.53 | 2.37 | 2.26 | 2.17 | 2.10 | 2.04 | 2.00 | 1.96 | 1.92 | 1.89 | 1.86 | 1.84 |
| **60** | 4.00 | 3.15 | 2.76 | 2.53 | 2.37 | 2.25 | 2.17 | 2.10 | 2.04 | 1.99 | 1.95 | 1.92 | 1.89 | 1.86 | 1.84 |
| **61** | 4.00 | 3.15 | 2.76 | 2.52 | 2.37 | 2.25 | 2.16 | 2.09 | 2.04 | 1.99 | 1.95 | 1.91 | 1.88 | 1.86 | 1.83 |
| **62** | 4.00 | 3.15 | 2.75 | 2.52 | 2.36 | 2.25 | 2.16 | 2.09 | 2.03 | 1.99 | 1.95 | 1.91 | 1.88 | 1.85 | 1.83 |
| **63** | 3.99 | 3.14 | 2.75 | 2.52 | 2.36 | 2.25 | 2.16 | 2.09 | 2.03 | 1.98 | 1.94 | 1.91 | 1.88 | 1.85 | 1.83 |
| **64** | 3.99 | 3.14 | 2.75 | 2.52 | 2.36 | 2.24 | 2.16 | 2.09 | 2.03 | 1.98 | 1.94 | 1.91 | 1.88 | 1.85 | 1.83 |
| **65** | 3.99 | 3.14 | 2.75 | 2.51 | 2.36 | 2.24 | 2.15 | 2.08 | 2.03 | 1.98 | 1.94 | 1.90 | 1.87 | 1.85 | 1.82 |
| **66** | 3.99 | 3.14 | 2.74 | 2.51 | 2.35 | 2.24 | 2.15 | 2.08 | 2.03 | 1.98 | 1.94 | 1.90 | 1.87 | 1.84 | 1.82 |
| **67** | 3.98 | 3.13 | 2.74 | 2.51 | 2.35 | 2.24 | 2.15 | 2.08 | 2.02 | 1.98 | 1.93 | 1.90 | 1.87 | 1.84 | 1.82 |
| **68** | 3.98 | 3.13 | 2.74 | 2.51 | 2.35 | 2.24 | 2.15 | 2.08 | 2.02 | 1.97 | 1.93 | 1.90 | 1.87 | 1.84 | 1.82 |
| **69** | 3.98 | 3.13 | 2.74 | 2.50 | 2.35 | 2.23 | 2.15 | 2.08 | 2.02 | 1.97 | 1.93 | 1.90 | 1.86 | 1.84 | 1.81 |
| **70** | 3.98 | 3.13 | 2.74 | 2.50 | 2.35 | 2.23 | 2.14 | 2.07 | 2.02 | 1.97 | 1.93 | 1.89 | 1.86 | 1.84 | 1.81 |
| **71** | 3.98 | 3.13 | 2.73 | 2.50 | 2.34 | 2.23 | 2.14 | 2.07 | 2.01 | 1.97 | 1.93 | 1.89 | 1.86 | 1.83 | 1.81 |
| **72** | 3.97 | 3.12 | 2.73 | 2.50 | 2.34 | 2.23 | 2.14 | 2.07 | 2.01 | 1.96 | 1.92 | 1.89 | 1.86 | 1.83 | 1.81 |
| **73** | 3.97 | 3.12 | 2.73 | 2.50 | 2.34 | 2.23 | 2.14 | 2.07 | 2.01 | 1.96 | 1.92 | 1.89 | 1.86 | 1.83 | 1.81 |
| **74** | 3.97 | 3.12 | 2.73 | 2.50 | 2.34 | 2.22 | 2.14 | 2.07 | 2.01 | 1.96 | 1.92 | 1.89 | 1.85 | 1.83 | 1.80 |
| **75** | 3.97 | 3.12 | 2.73 | 2.49 | 2.34 | 2.22 | 2.13 | 2.06 | 2.01 | 1.96 | 1.92 | 1.88 | 1.85 | 1.83 | 1.80 |
| **76** | 3.97 | 3.12 | 2.72 | 2.49 | 2.33 | 2.22 | 2.13 | 2.06 | 2.01 | 1.96 | 1.92 | 1.88 | 1.85 | 1.82 | 1.80 |
| **77** | 3.97 | 3.12 | 2.72 | 2.49 | 2.33 | 2.22 | 2.13 | 2.06 | 2.00 | 1.96 | 1.92 | 1.88 | 1.85 | 1.82 | 1.80 |
| **78** | 3.96 | 3.11 | 2.72 | 2.49 | 2.33 | 2.22 | 2.13 | 2.06 | 2.00 | 1.95 | 1.91 | 1.88 | 1.85 | 1.82 | 1.80 |
| **79** | 3.96 | 3.11 | 2.72 | 2.49 | 2.33 | 2.22 | 2.13 | 2.06 | 2.00 | 1.95 | 1.91 | 1.88 | 1.85 | 1.82 | 1.79 |
| **80** | 3.96 | 3.11 | 2.72 | 2.49 | 2.33 | 2.21 | 2.13 | 2.06 | 2.00 | 1.95 | 1.91 | 1.88 | 1.84 | 1.82 | 1.79 |
| **81** | 3.96 | 3.11 | 2.72 | 2.48 | 2.33 | 2.21 | 2.12 | 2.05 | 2.00 | 1.95 | 1.91 | 1.87 | 1.84 | 1.82 | 1.79 |
| **82** | 3.96 | 3.11 | 2.72 | 2.48 | 2.33 | 2.21 | 2.12 | 2.05 | 2.00 | 1.95 | 1.91 | 1.87 | 1.84 | 1.81 | 1.79 |
| **83** | 3.96 | 3.11 | 2.71 | 2.48 | 2.32 | 2.21 | 2.12 | 2.05 | 1.99 | 1.95 | 1.91 | 1.87 | 1.84 | 1.81 | 1.79 |
| **84** | 3.95 | 3.11 | 2.71 | 2.48 | 2.32 | 2.21 | 2.12 | 2.05 | 1.99 | 1.95 | 1.90 | 1.87 | 1.84 | 1.81 | 1.79 |
| **85** | 3.95 | 3.10 | 2.71 | 2.48 | 2.32 | 2.21 | 2.12 | 2.05 | 1.99 | 1.94 | 1.90 | 1.87 | 1.84 | 1.81 | 1.79 |
| **86** | 3.95 | 3.10 | 2.71 | 2.48 | 2.32 | 2.21 | 2.12 | 2.05 | 1.99 | 1.94 | 1.90 | 1.87 | 1.84 | 1.81 | 1.78 |
| **87** | 3.95 | 3.10 | 2.71 | 2.48 | 2.32 | 2.20 | 2.12 | 2.05 | 1.99 | 1.94 | 1.90 | 1.87 | 1.83 | 1.81 | 1.78 |
| **88** | 3.95 | 3.10 | 2.71 | 2.48 | 2.32 | 2.20 | 2.12 | 2.05 | 1.99 | 1.94 | 1.90 | 1.86 | 1.83 | 1.81 | 1.78 |
| **89** | 3.95 | 3.10 | 2.71 | 2.47 | 2.32 | 2.20 | 2.11 | 2.04 | 1.99 | 1.94 | 1.90 | 1.86 | 1.83 | 1.80 | 1.78 |
| **90** | 3.95 | 3.10 | 2.71 | 2.47 | 2.32 | 2.20 | 2.11 | 2.04 | 1.99 | 1.94 | 1.90 | 1.86 | 1.83 | 1.80 | 1.78 |