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LAMPIRAN**1. PENGERINGAN SUHU 40⁰ C**

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengerinan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|--|
| Tabung 1 Suhu 40° C Ulangan 1 | 0 | 100 | 54,0407000 | 117,5838187 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 88,81 | 48,2498593 | 93,2361894 | 0,7725147 | 0,6886064 | 0,786984291 | 0,713983735 | 0,00373000 |
| | 60 | 78,86 | 41,7203906 | 71,5865994 | 0,5702379 | 0,4741788 | 0,536086159 | 0,48305525 | 0,00331667 |
| | 90 | 70,31 | 30,6902428 | 44,2798302 | 0,3151047 | 0,3265226 | 0,335890444 | 0,326817493 | 0,00285000 |
| | 120 | 62,83 | 23,1835200 | 30,1803987 | 0,1833706 | 0,2248455 | 0,197373374 | 0,221112749 | 0,00249333 |
| | 150 | 56,14 | 18,1344852 | 22,1515558 | 0,1083554 | 0,1548301 | 0,10994111 | 0,149596789 | 0,00223000 |
| | 180 | 54,27 | 15,3136171 | 18,0827384 | 0,0703395 | 0,106617 | 0,058459025 | 0,101211709 | 0,00062333 |
| | 210 | 52,73 | 12,8403186 | 14,7319476 | 0,0390323 | 0,0734171 | 0,029822131 | 0,068476136 | 0,00051333 |
| | 240 | 51,88 | 11,4122976 | 12,8824852 | 0,0217524 | 0,0505555 | 0,014651185 | 0,046328446 | 0,00028333 |
| | 270 | 51,40 | 10,5850195 | 11,8380828 | 0,0119943 | 0,0348129 | 0,006952792 | 0,03134413 | 0,00016000 |
| | 300 | 51,29 | 10,3932540 | 11,5987406 | 0,0097581 | 0,0239724 | 0,003194933 | 0,021206291 | 0,00003667 |
| | 330 | 51,21 | 10,2532708 | 11,4246736 | 0,0081317 | 0,0165075 | 0,001424515 | 0,0143474 | 0,00002667 |
| | 360 | 51,18 | 10,2006643 | 11,3593984 | 0,0075219 | 0,0113672 | 0,000617346 | 0,009706925 | 0,00001000 |
| | 390 | 51,15 | 10,1479961 | 11,2941233 | 0,0069120 | 0,0078275 | 0,000260433 | 0,00656735 | 0,00001000 |
| | 420 | 51,13 | 10,1128496 | 11,2506065 | 0,0065054 | 0,0053901 | 0,000107087 | 0,004443229 | 0,00000667 |
| | 450 | 51,11 | 10,0776756 | 11,2070898 | 0,0060988 | 0,0037116 | 4,29685E-05 | 0,003006126 | 0,00000667 |
| 480 | 51,10 | 10,0600783 | 11,1853314 | 0,0058955 | 0,0025559 | 1,68416E-05 | 0,002033835 | 0,00000333 | |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-------------|------------|
| 510 | 51,09 | 10,0424741 | 11,1635730 | 0,0056922 | 0,00176 | 6,45407E-06 | 0,001376018 | 0,00000333 |
| 540 | 51,08 | 10,0248630 | 11,1418146 | 0,0054889 | 0,0012119 | 2,42028E-06 | 0,000930963 | 0,00000333 |
| 570 | 51,07 | 10,0072450 | 11,1200562 | 0,0052856 | 0,0008345 | 8,88801E-07 | 0,000629856 | 0,00000333 |
| 600 | 51,06 | 9,9896201 | 11,0982978 | 0,0050823 | 0,0005747 | 3,19854E-07 | 0,000426137 | 0,00000333 |
| 630 | 51,05 | 9,9719882 | 11,0765395 | 0,0048790 | 0,0003957 | 1,12871E-07 | 0,000288309 | 0,00000333 |
| 660 | 51,04 | 9,9543495 | 11,0547811 | 0,0046757 | 0,0002725 | 3,90797E-08 | 0,000195059 | 0,00000333 |
| 690 | 51,03 | 9,9367039 | 11,0330227 | 0,0044725 | 0,0001876 | 1,32829E-08 | 0,00013197 | 0,00000333 |
| 720 | 51,02 | 9,9190514 | 11,0112643 | 0,0042692 | 0,0001292 | 4,43429E-09 | 8,9286E-05 | 0,00000333 |
| 750 | 51,01 | 9,9013919 | 10,9895059 | 0,0040659 | 8,898E-05 | 1,45462E-09 | 6,04077E-05 | 0,00000333 |
| 780 | 51,00 | 9,8837255 | 10,9677476 | 0,0038626 | 6,127E-05 | 4,69094E-10 | 4,08696E-05 | 0,00000333 |
| 810 | 50,99 | 9,8660522 | 10,9459892 | 0,0036593 | 4,219E-05 | 1,48776E-10 | 2,76509E-05 | 0,00000333 |
| 840 | 50,98 | 9,8483719 | 10,9242308 | 0,0034560 | 2,905E-05 | 4,64234E-11 | 1,87076E-05 | 0,00000333 |
| 870 | 50,97 | 9,8306847 | 10,9024724 | 0,0032527 | 2,001E-05 | 1,4257E-11 | 1,26569E-05 | 0,00000333 |
| 900 | 50,96 | 9,8129906 | 10,8807140 | 0,0030494 | 1,378E-05 | 4,31078E-12 | 8,56317E-06 | 0,00000333 |
| 930 | 50,95 | 9,7952895 | 10,8589556 | 0,0028461 | 9,486E-06 | 1,28369E-12 | 5,79353E-06 | 0,00000333 |
| 960 | 50,94 | 9,7775815 | 10,8371973 | 0,0026428 | 6,532E-06 | 3,76597E-13 | 3,91969E-06 | 0,00000333 |
| 990 | 50,93 | 9,759866483 | 10,81543888 | 0,0024395 | 4,498E-06 | 1,08875E-13 | 2,65192E-06 | 0,00000333 |
| 1020 | 50,92 | 9,74214454 | 10,7936805 | 0,00223623 | 3,098E-06 | 3,1027E-14 | 1,79419E-06 | 0,00000333 |
| 1050 | 50,91 | 9,724415635 | 10,77192211 | 0,00203293 | 2,133E-06 | 8,71812E-15 | 1,21388E-06 | 0,00000333 |
| 1080 | 50,9 | 9,706679764 | 10,75016373 | 0,00182964 | 1,469E-06 | 2,41594E-15 | 8,21269E-07 | 0,00000333 |
| 1110 | 50,89 | 9,688936923 | 10,72840535 | 0,00162635 | 1,011E-06 | 6,60443E-16 | 5,55641E-07 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-------------|------------|
| 1140 | 50,88 | 9,671187107 | 10,70664697 | 0,00142305 | 6,965E-07 | 1,78143E-16 | 3,75926E-07 | 0,00000333 |
| 1170 | 50,87 | 9,653430313 | 10,68488859 | 0,00121976 | 4,796E-07 | 4,74225E-17 | 2,54338E-07 | 0,00000333 |
| 1200 | 50,86 | 9,635666536 | 10,6631302 | 0,00101647 | 3,302E-07 | 1,24615E-17 | 1,72076E-07 | 0,00000333 |
| 1230 | 50,85 | 9,617895772 | 10,64137182 | 0,00081317 | 2,274E-07 | 3,23308E-18 | 1,1642E-07 | 0,00000333 |
| 1260 | 50,84 | 9,600118017 | 10,61961344 | 0,00060988 | 1,566E-07 | 8,28334E-19 | 7,87656E-08 | 0,00000333 |
| 1290 | 50,83 | 9,582333268 | 10,59785506 | 0,00040659 | 1,078E-07 | 2,09614E-19 | 5,32899E-08 | 0,00000333 |
| 1320 | 50,82 | 9,564541519 | 10,57609668 | 0,00020329 | 7,426E-08 | 5,24006E-20 | 3,6054E-08 | 0,00000333 |
| 1350 | 50,81 | 9,546742767 | 10,55433829 | 0 | 5,113E-08 | 1,29429E-20 | 2,43928E-08 | 0,00000333 |
| 1380 | 50,81 | 9,546742767 | 10,55433829 | 0 | 3,521E-08 | 3,15918E-21 | 1,65033E-08 | 0,00000000 |
| 1410 | 50,81 | 9,546742767 | 10,55433829 | 0 | 2,425E-08 | 7,62144E-22 | 1,11655E-08 | 0,00000000 |
| 1440 | 50,81 | 9,546742767 | 10,55433829 | 0 | 1,67E-08 | 1,81755E-22 | 7,55418E-09 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|-------------|----------------------|---|
| Tabung 1 Suhu 40° C Ulangan 2 | 0 | 100 | 54,0641000 | 117,6946571 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 88,81 | 48,2762076 | 93,3346250 | 0,7724685 | 0,6882983 | 0,787246206 | 0,713741253 | 0,00373000 |
| | 60 | 78,85 | 41,7426760 | 71,6522371 | 0,5699471 | 0,4737545 | 0,535972399 | 0,482645539 | 0,00332000 |
| | 90 | 70,32 | 30,7359771 | 44,3750966 | 0,3151688 | 0,3260844 | 0,335394832 | 0,32637418 | 0,00284333 |
| | 120 | 62,81 | 23,1969570 | 30,2031744 | 0,1827979 | 0,2244433 | 0,196710604 | 0,220700487 | 0,00250333 |

| | | | | | | | | |
|-----|-------|------------|------------|-----------|-----------|-------------|-------------|------------|
| 150 | 56,11 | 18,1324185 | 22,1484721 | 0,1075641 | 0,1544839 | 0,109304275 | 0,149241906 | 0,00223333 |
| 180 | 54,25 | 15,3255300 | 18,0993515 | 0,0697438 | 0,106331 | 0,057948732 | 0,100920242 | 0,00062000 |
| 210 | 52,70 | 12,8351044 | 14,7250843 | 0,0382269 | 0,0731875 | 0,029460458 | 0,068244206 | 0,00051667 |
| 240 | 51,88 | 11,4574017 | 12,9399881 | 0,0215535 | 0,0503748 | 0,014417424 | 0,046148042 | 0,00027333 |
| 270 | 51,40 | 10,6305447 | 11,8950538 | 0,0117934 | 0,0346729 | 0,006812466 | 0,031206192 | 0,00016000 |
| 300 | 51,30 | 10,4563353 | 11,6773591 | 0,0097601 | 0,0238653 | 0,003115745 | 0,021102226 | 0,00003333 |
| 330 | 51,22 | 10,3164779 | 11,5032034 | 0,0081334 | 0,0164264 | 0,001382149 | 0,014269731 | 0,00002667 |
| 360 | 51,18 | 10,2463853 | 11,4161255 | 0,0073200 | 0,0113063 | 0,000595721 | 0,009649466 | 0,00001333 |
| 390 | 51,15 | 10,1937439 | 11,3508171 | 0,0067100 | 0,0077821 | 0,000249852 | 0,006525154 | 0,00001000 |
| 420 | 51,13 | 10,1586153 | 11,3072782 | 0,0063034 | 0,0053564 | 0,000102104 | 0,004412434 | 0,00000667 |
| 450 | 51,11 | 10,1234592 | 11,2637393 | 0,0058967 | 0,0036868 | 4,07038E-05 | 0,002983773 | 0,00000667 |
| 480 | 51,10 | 10,1058708 | 11,2419698 | 0,0056934 | 0,0025376 | 1,58454E-05 | 0,002017684 | 0,00000333 |
| 510 | 51,09 | 10,0882756 | 11,2202003 | 0,0054900 | 0,0017466 | 6,02913E-06 | 0,001364397 | 0,00000333 |
| 540 | 51,08 | 10,0706735 | 11,1984309 | 0,0052867 | 0,0012022 | 2,24415E-06 | 0,000922631 | 0,00000333 |
| 570 | 51,07 | 10,0530644 | 11,1766614 | 0,0050834 | 0,0008275 | 8,17764E-07 | 0,000623901 | 0,00000333 |
| 600 | 51,06 | 10,0354485 | 11,1548919 | 0,0048800 | 0,0005696 | 2,91934E-07 | 0,000421894 | 0,00000333 |
| 630 | 51,05 | 10,0178257 | 11,1331225 | 0,0046767 | 0,000392 | 1,02165E-07 | 0,000285293 | 0,00000333 |
| 660 | 51,04 | 10,0001959 | 11,1113530 | 0,0044734 | 0,0002698 | 3,50699E-08 | 0,00019292 | 0,00000333 |
| 690 | 51,03 | 9,9825593 | 11,0895835 | 0,0042700 | 0,0001857 | 1,18147E-08 | 0,000130457 | 0,00000333 |
| 720 | 51,02 | 9,9649157 | 11,0678141 | 0,0040667 | 0,0001278 | 3,90826E-09 | 8,82172E-05 | 0,00000333 |
| 750 | 51,01 | 9,9472652 | 11,0460446 | 0,0038634 | 8,799E-05 | 1,27006E-09 | 5,96542E-05 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-------------|------------|
| 780 | 51,00 | 9,9296078 | 11,0242751 | 0,0036600 | 6,056E-05 | 4,05638E-10 | 4,03393E-05 | 0,00000333 |
| 810 | 50,99 | 9,9119435 | 11,0025057 | 0,0034567 | 4,168E-05 | 1,27381E-10 | 2,72782E-05 | 0,00000333 |
| 840 | 50,98 | 9,8942723 | 10,9807362 | 0,0032534 | 2,869E-05 | 3,93453E-11 | 1,8446E-05 | 0,00000333 |
| 870 | 50,97 | 9,8765941 | 10,9589667 | 0,0030500 | 1,975E-05 | 1,19581E-11 | 1,24736E-05 | 0,00000333 |
| 900 | 50,96 | 9,8589089 | 10,9371973 | 0,0028467 | 1,359E-05 | 3,57737E-12 | 8,43487E-06 | 0,00000333 |
| 930 | 50,95 | 9,8412169 | 10,9154278 | 0,0026434 | 9,356E-06 | 1,05376E-12 | 5,70382E-06 | 0,00000333 |
| 960 | 50,94 | 9,8235179 | 10,8936583 | 0,0024400 | 6,44E-06 | 3,05721E-13 | 3,85703E-06 | 0,00000333 |
| 990 | 50,93 | 9,80581899 | 10,87188887 | 0,0022367 | 4,432E-06 | 8,7387E-14 | 2,6082E-06 | 0,00000333 |
| 1020 | 50,92 | 9,788098979 | 10,85011941 | 0,00203335 | 3,051E-06 | 2,46166E-14 | 1,76371E-06 | 0,00000333 |
| 1050 | 50,91 | 9,7703791 | 10,82834994 | 0,00183001 | 2,1E-06 | 6,83569E-15 | 1,19266E-06 | 0,00000333 |
| 1080 | 50,9 | 9,752652259 | 10,80658047 | 0,00162668 | 1,445E-06 | 1,87164E-15 | 8,06498E-07 | 0,00000333 |
| 1110 | 50,89 | 9,734918452 | 10,78481101 | 0,00142334 | 9,948E-07 | 5,05421E-16 | 5,45369E-07 | 0,00000333 |
| 1140 | 50,88 | 9,717177673 | 10,76304154 | 0,00122001 | 6,847E-07 | 1,3464E-16 | 3,68789E-07 | 0,00000333 |
| 1170 | 50,87 | 9,699429919 | 10,74127208 | 0,00101667 | 4,713E-07 | 3,53904E-17 | 2,49382E-07 | 0,00000333 |
| 1200 | 50,86 | 9,681675187 | 10,71950261 | 0,00081334 | 3,244E-07 | 9,18071E-18 | 1,68637E-07 | 0,00000333 |
| 1230 | 50,85 | 9,663913471 | 10,69773315 | 0,00061000 | 2,233E-07 | 2,35091E-18 | 1,14036E-07 | 0,00000333 |
| 1260 | 50,84 | 9,646144768 | 10,67596368 | 0,00040667 | 1,537E-07 | 5,9436E-19 | 7,71131E-08 | 0,00000333 |
| 1290 | 50,83 | 9,628369073 | 10,65419421 | 0,00020334 | 1,058E-07 | 1,48388E-19 | 5,21454E-08 | 0,00000333 |
| 1320 | 50,83 | 9,628369073 | 10,65419421 | 0,00020334 | 7,281E-08 | 3,65902E-20 | 3,52617E-08 | 0,00000000 |
| 1350 | 50,82 | 9,610586383 | 10,63242475 | 0 | 5,011E-08 | 8,91295E-21 | 2,38446E-08 | 0,00000333 |
| 1380 | 50,82 | 9,610586383 | 10,63242475 | 0 | 3,449E-08 | 2,14507E-21 | 1,61242E-08 | 0,00000000 |

| | | | | | | | | |
|------|-------|-------------|-------------|---|-----------|-------------|-------------|------------|
| 1410 | 50,82 | 9,610586383 | 10,63242475 | 0 | 2,374E-08 | 5,10149E-22 | 1,09035E-08 | 0,00000000 |
| 1440 | 50,82 | 9,610586383 | 10,63242475 | 0 | 1,634E-08 | 1,1991E-22 | 7,37315E-09 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 1 Suhu 40° C Ulangan 3 | 0 | 100 | 53,9714300 | 117,2563693 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 88,76 | 48,1426656 | 92,8367533 | 0,7713123 | 0,6875378 | 0,786551027 | 0,71282864 | 0,00374667 |
| | 60 | 78,80 | 41,5881091 | 71,1980190 | 0,5686673 | 0,4727083 | 0,53474169 | 0,48151193 | 0,00332000 |
| | 90 | 70,29 | 30,5648363 | 44,0192472 | 0,3141404 | 0,3250048 | 0,334048509 | 0,32525873 | 0,00283667 |
| | 120 | 62,80 | 23,0291472 | 29,9193088 | 0,1820956 | 0,2234531 | 0,195537399 | 0,21971053 | 0,00249667 |
| | 150 | 56,09 | 17,9380103 | 21,8590975 | 0,1066124 | 0,1536325 | 0,108418299 | 0,14841329 | 0,00223667 |
| | 180 | 54,22 | 15,1077647 | 17,7964034 | 0,0685656 | 0,1056281 | 0,057345381 | 0,10025238 | 0,00062333 |
| | 210 | 52,73 | 12,7089513 | 14,5592835 | 0,0382503 | 0,0726233 | 0,029081497 | 0,06771995 | 0,00049667 |
| | 240 | 51,87 | 11,2616734 | 12,6908787 | 0,0207528 | 0,0499313 | 0,014194741 | 0,04574446 | 0,00028667 |
| | 270 | 51,39 | 10,4328274 | 11,6480482 | 0,0109868 | 0,0343297 | 0,006688847 | 0,03090014 | 0,00016000 |
| | 300 | 51,30 | 10,2756920 | 11,4525174 | 0,0091556 | 0,0236029 | 0,003050454 | 0,02087288 | 0,00003000 |
| | 330 | 51,23 | 10,1530939 | 11,3004380 | 0,0077314 | 0,0162279 | 0,001349164 | 0,01409952 | 0,00002333 |
| | 360 | 51,20 | 10,1004492 | 11,2352611 | 0,0071211 | 0,0111573 | 0,000579716 | 0,00952415 | 0,00001000 |
| | 390 | 51,18 | 10,0653185 | 11,1918098 | 0,0067141 | 0,0076711 | 0,000242367 | 0,00643351 | 0,00000667 |
| 420 | 51,16 | 10,0301603 | 11,1483585 | 0,0063072 | 0,0052742 | 9,87218E-05 | 0,00434580 | 0,00000667 | |
| 450 | 51,14 | 9,9949746 | 11,1049072 | 0,0059003 | 0,0036262 | 3,92232E-05 | 0,00293557 | 0,00000667 | |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|------------|------------|
| 480 | 51,13 | 9,9773714 | 11,0831816 | 0,0056968 | 0,0024931 | 1,52164E-05 | 0,00198296 | 0,00000333 |
| 510 | 51,12 | 9,9597613 | 11,0614560 | 0,0054934 | 0,0017141 | 5,76938E-06 | 0,00133948 | 0,00000333 |
| 540 | 51,11 | 9,9421444 | 11,0397303 | 0,0052899 | 0,0011785 | 2,13972E-06 | 0,00090481 | 0,00000333 |
| 570 | 51,10 | 9,9245205 | 11,0180047 | 0,0050865 | 0,0008103 | 7,76838E-07 | 0,00061119 | 0,00000333 |
| 600 | 51,09 | 9,9068898 | 10,9962791 | 0,0048830 | 0,0005571 | 2,76282E-07 | 0,00041286 | 0,00000333 |
| 630 | 51,08 | 9,8892522 | 10,9745534 | 0,0046796 | 0,000383 | 9,6317E-08 | 0,00027888 | 0,00000333 |
| 660 | 51,07 | 9,8716076 | 10,9528278 | 0,0044761 | 0,0002633 | 3,29336E-08 | 0,00018838 | 0,00000333 |
| 690 | 51,06 | 9,8539561 | 10,9311021 | 0,0042726 | 0,0001811 | 1,10509E-08 | 0,00012725 | 0,00000333 |
| 720 | 51,05 | 9,8362977 | 10,9093765 | 0,0040692 | 0,0001245 | 3,64087E-09 | 0,00008596 | 0,00000333 |
| 750 | 51,04 | 9,8186324 | 10,8876509 | 0,0038657 | 8,559E-05 | 1,17832E-09 | 0,00005806 | 0,00000333 |
| 780 | 51,03 | 9,8009602 | 10,8659252 | 0,0036623 | 5,885E-05 | 3,74772E-10 | 0,00003922 | 0,00000333 |
| 810 | 51,02 | 9,7832811 | 10,8441996 | 0,0034588 | 4,046E-05 | 1,17191E-10 | 0,00002649 | 0,00000333 |
| 840 | 51,01 | 9,7655950 | 10,8224740 | 0,0032553 | 2,782E-05 | 3,6043E-11 | 0,00001790 | 0,00000333 |
| 870 | 51,00 | 9,7479020 | 10,8007483 | 0,0030519 | 1,913E-05 | 1,09069E-11 | 0,00001209 | 0,00000333 |
| 900 | 50,99 | 9,7302020 | 10,7790227 | 0,0028484 | 1,315E-05 | 3,24856E-12 | 0,00000817 | 0,00000333 |
| 930 | 50,98 | 9,7124951 | 10,7572970 | 0,0026450 | 9,041E-06 | 9,52638E-13 | 0,00000552 | 0,00000333 |
| 960 | 50,97 | 9,6947812 | 10,7355714 | 0,0024415 | 6,216E-06 | 2,75138E-13 | 0,00000373 | 0,00000333 |
| 990 | 50,96 | 9,67706044 | 10,71384577 | 0,0022380 | 4,274E-06 | 7,82867E-14 | 0,00000252 | 0,00000333 |
| 1020 | 50,95 | 9,659332679 | 10,69212013 | 0,00203459 | 2,938E-06 | 2,19513E-14 | 0,00000170 | 0,00000333 |
| 1050 | 50,94 | 9,641597958 | 10,6703945 | 0,00183113 | 2,02E-06 | 6,06715E-15 | 0,00000115 | 0,00000333 |
| 1080 | 50,93 | 9,623856273 | 10,64866886 | 0,00162767 | 1,389E-06 | 1,65338E-15 | 0,00000078 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|------------|------------|
| 1110 | 50,92 | 9,60610762 | 10,62694322 | 0,00142421 | 9,549E-07 | 4,44353E-16 | 0,00000052 | 0,00000333 |
| 1140 | 50,91 | 9,588351994 | 10,60521759 | 0,00122075 | 6,566E-07 | 1,17802E-16 | 0,00000035 | 0,00000333 |
| 1170 | 50,9 | 9,570589391 | 10,58349195 | 0,00101729 | 4,514E-07 | 3,08139E-17 | 0,00000024 | 0,00000333 |
| 1200 | 50,89 | 9,552819807 | 10,56176631 | 0,00081383 | 3,104E-07 | 7,95426E-18 | 0,00000016 | 0,00000333 |
| 1230 | 50,88 | 9,535043239 | 10,54004067 | 0,00061038 | 2,134E-07 | 2,02676E-18 | 0,00000011 | 0,00000333 |
| 1260 | 50,87 | 9,517259682 | 10,51831504 | 0,00040692 | 1,467E-07 | 5,09844E-19 | 0,00000007 | 0,00000333 |
| 1290 | 50,86 | 9,499469131 | 10,4965894 | 0,00020346 | 1,009E-07 | 1,26645E-19 | 0,00000005 | 0,00000333 |
| 1320 | 50,86 | 9,499469131 | 10,4965894 | 0,00020346 | 6,935E-08 | 3,10697E-20 | 0,00000003 | 0,00000000 |
| 1350 | 50,85 | 9,481671583 | 10,47486376 | 0 | 4,768E-08 | 7,52934E-21 | 0 | 0,00000333 |
| 1380 | 50,85 | 9,481671583 | 10,47486376 | 0 | 3,278E-08 | 1,80269E-21 | 0 | 0,00000000 |
| 1410 | 50,85 | 9,481671583 | 10,47486376 | 0 | 2,254E-08 | 4,26484E-22 | 0 | 0,00000000 |
| 1440 | 50,85 | 9,481671583 | 10,47486376 | 0 | 1,55E-08 | 9,97167E-23 | 0 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|-------------|----------------------|---|
| Tabung 2 Suhu 40° C Ulangan 1 | 0 | 100 | 54,5660000 | 120,0994850 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 84,49 | 46,2255888 | 85,9620548 | 0,6883039 | 0,6689446 | 0,674926004 | 0,6710211 | 0,00517000 |
| | 60 | 71,51 | 36,4648301 | 57,3931417 | 0,4274518 | 0,4474869 | 0,450674636 | 0,4480247 | 0,00432667 |
| | 90 | 65,36 | 30,4865361 | 43,8570234 | 0,3038585 | 0,299344 | 0,299689363 | 0,2991353 | 0,00205000 |
| | 120 | 60,48 | 24,8776455 | 33,1161685 | 0,2057878 | 0,2002445 | 0,198747297 | 0,1997255 | 0,00162667 |
| | 150 | 57,01 | 20,3052096 | 25,4787164 | 0,1360531 | 0,1339525 | 0,131537564 | 0,1333519 | 0,00115667 |

| | | | | | | | | |
|-----|-------|------------|------------|-----------|-----------|-------------|-----------|------------|
| 180 | 54,97 | 17,3476442 | 20,9886869 | 0,0950563 | 0,0896068 | 0,086914628 | 0,0890359 | 0,00068000 |
| 210 | 53,20 | 14,5977444 | 17,0929260 | 0,0594855 | 0,059942 | 0,057351812 | 0,0594471 | 0,00059000 |
| 240 | 51,75 | 12,2048309 | 13,9014835 | 0,0303457 | 0,0400979 | 0,03780035 | 0,0396914 | 0,00048333 |
| 270 | 50,85 | 10,6509341 | 11,9205881 | 0,0122588 | 0,0268233 | 0,024888647 | 0,0265010 | 0,00030000 |
| 300 | 50,75 | 10,4748768 | 11,7004886 | 0,0102492 | 0,0179433 | 0,01637239 | 0,0176941 | 0,00003333 |
| 330 | 50,67 | 10,3335307 | 11,5244090 | 0,0086415 | 0,0120031 | 0,010761359 | 0,0118139 | 0,00002667 |
| 360 | 50,63 | 10,2626901 | 11,4363692 | 0,0078376 | 0,0080294 | 0,007068027 | 0,0078879 | 0,00001333 |
| 390 | 50,60 | 10,2094862 | 11,3703394 | 0,0072347 | 0,0053712 | 0,00463908 | 0,0052665 | 0,00001000 |
| 420 | 50,57 | 10,1562191 | 11,3043095 | 0,0066318 | 0,003593 | 0,003042921 | 0,0035163 | 0,00001000 |
| 450 | 50,55 | 10,1206726 | 11,2602897 | 0,0062299 | 0,0024035 | 0,001994774 | 0,0023478 | 0,00000667 |
| 480 | 50,54 | 10,1028888 | 11,2382797 | 0,0060289 | 0,0016078 | 0,001306947 | 0,0015676 | 0,00000333 |
| 510 | 50,53 | 10,0850980 | 11,2162698 | 0,0058280 | 0,0010756 | 0,000855851 | 0,0010466 | 0,00000333 |
| 540 | 50,52 | 10,0673001 | 11,1942598 | 0,0056270 | 0,0007195 | 0,000560179 | 0,0006988 | 0,00000333 |
| 570 | 50,51 | 10,0494951 | 11,1722499 | 0,0054260 | 0,0004813 | 0,000366485 | 0,0004666 | 0,00000333 |
| 600 | 50,50 | 10,0316832 | 11,1502399 | 0,0052251 | 0,000322 | 0,00023966 | 0,0003115 | 0,00000333 |
| 630 | 50,49 | 10,0138641 | 11,1282300 | 0,0050241 | 0,0002154 | 0,000156659 | 0,0002080 | 0,00000333 |
| 660 | 50,48 | 9,9960380 | 11,1062200 | 0,0048232 | 0,0001441 | 0,000102363 | 0,0001389 | 0,00000333 |
| 690 | 50,47 | 9,9782049 | 11,0842101 | 0,0046222 | 9,638E-05 | 6,68602E-05 | 0,0000927 | 0,00000333 |
| 720 | 50,46 | 9,9603646 | 11,0622001 | 0,0044212 | 6,447E-05 | 4,36551E-05 | 0,0000619 | 0,00000333 |
| 750 | 50,45 | 9,9425173 | 11,0401902 | 0,0042203 | 4,313E-05 | 2,84938E-05 | 0,0000413 | 0,00000333 |
| 780 | 50,44 | 9,9246630 | 11,0181802 | 0,0040193 | 2,885E-05 | 1,85919E-05 | 0,0000276 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-----------|------------|
| 810 | 50,43 | 9,9068015 | 10,9961703 | 0,0038183 | 1,93E-05 | 1,2127E-05 | 0,0000184 | 0,00000333 |
| 840 | 50,42 | 9,8889330 | 10,9741603 | 0,0036174 | 1,291E-05 | 7,90776E-06 | 0,0000123 | 0,00000333 |
| 870 | 50,41 | 9,8710573 | 10,9521504 | 0,0034164 | 8,636E-06 | 5,15492E-06 | 0,0000082 | 0,00000333 |
| 900 | 50,40 | 9,8531746 | 10,9301404 | 0,0032154 | 5,777E-06 | 3,35943E-06 | 0,0000055 | 0,00000333 |
| 930 | 50,39 | 9,8352848 | 10,9081305 | 0,0030145 | 3,865E-06 | 2,18871E-06 | 0,0000037 | 0,00000333 |
| 960 | 50,38 | 9,8173879 | 10,8861205 | 0,0028135 | 2,585E-06 | 1,42559E-06 | 0,0000024 | 0,00000333 |
| 990 | 50,37 | 9,79948382 | 10,86411058 | 0,0026125 | 1,729E-06 | 9,28296E-07 | 0,0000016 | 0,00000333 |
| 1020 | 50,36 | 9,781572677 | 10,84210063 | 0,00241158 | 1,157E-06 | 6,04322E-07 | 0,0000011 | 0,00000333 |
| 1050 | 50,35 | 9,763654419 | 10,82009068 | 0,00221061 | 7,738E-07 | 3,93317E-07 | 0,0000007 | 0,00000333 |
| 1080 | 50,34 | 9,745729043 | 10,79808073 | 0,00200965 | 5,177E-07 | 2,55926E-07 | 0,0000005 | 0,00000333 |
| 1110 | 50,33 | 9,727796543 | 10,77607078 | 0,00180868 | 3,463E-07 | 1,66488E-07 | 0,0000003 | 0,00000333 |
| 1140 | 50,32 | 9,709856916 | 10,75406084 | 0,00160772 | 2,316E-07 | 1,08282E-07 | 0,0000002 | 0,00000333 |
| 1170 | 50,31 | 9,691910157 | 10,73205089 | 0,00140675 | 1,55E-07 | 7,04093E-08 | 0,0000001 | 0,00000333 |
| 1200 | 50,3 | 9,673956262 | 10,71004094 | 0,00120579 | 1,037E-07 | 4,57732E-08 | 0,0000001 | 0,00000333 |
| 1230 | 50,29 | 9,655995228 | 10,68803099 | 0,00100482 | 6,934E-08 | 2,9751E-08 | 0,0000001 | 0,00000333 |
| 1260 | 50,28 | 9,638027049 | 10,66602104 | 0,00080386 | 4,639E-08 | 1,93332E-08 | 0,0000000 | 0,00000333 |
| 1290 | 50,27 | 9,620051721 | 10,64401109 | 0,00060289 | 3,103E-08 | 1,25608E-08 | 0,0000000 | 0,00000333 |
| 1320 | 50,26 | 9,60206924 | 10,62200114 | 0,00040193 | 2,076E-08 | 8,15919E-09 | 0,0000000 | 0,00000333 |
| 1350 | 50,25 | 9,584079602 | 10,5999912 | 0 | 1,389E-08 | 5,29899E-09 | 0,0000000 | 0,00000333 |
| 1380 | 50,24 | 9,566082803 | 10,57798125 | 0 | 9,289E-09 | 3,44079E-09 | 0,0000000 | 0,00000333 |
| 1410 | 50,24 | 9,566082803 | 10,57798125 | 0 | 6,214E-09 | 2,2338E-09 | 0,0000000 | 0,00000000 |

| | | | | | | | | |
|------|-------|-------------|-------------|---|-----------|-------------|-----------|------------|
| 1440 | 50,24 | 9,566082803 | 10,57798125 | 0 | 4,157E-09 | 1,44994E-09 | 0,0000000 | 0,00000000 |
|------|-------|-------------|-------------|---|-----------|-------------|-----------|------------|

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 2 Suhu 40° C Ulangan 2 | 0 | 100 | 54,6116300 | 120,3207562 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 84,44 | 46,2477854 | 86,0388465 | 0,6871733 | 0,667925 | 0,674014133 | 0,6699807 | 0,00518667 |
| | 60 | 71,44 | 36,4664474 | 57,3971482 | 0,4258142 | 0,4461238 | 0,449356186 | 0,4466515 | 0,00433333 |
| | 90 | 65,32 | 30,5138242 | 43,9135179 | 0,3027744 | 0,2979772 | 0,298314916 | 0,2977662 | 0,00204000 |
| | 120 | 60,46 | 24,9282666 | 33,2059292 | 0,2050663 | 0,1990264 | 0,197494656 | 0,1985098 | 0,00162000 |
| | 150 | 56,97 | 20,3293488 | 25,5167348 | 0,1349015 | 0,1329347 | 0,130477367 | 0,1323392 | 0,00116333 |
| | 180 | 54,97 | 17,4306531 | 21,1103197 | 0,0946924 | 0,0887904 | 0,086058566 | 0,0882257 | 0,00066667 |
| | 210 | 53,17 | 14,6353771 | 17,1445461 | 0,0585042 | 0,0593053 | 0,0566828 | 0,0588168 | 0,00060000 |
| | 240 | 51,73 | 12,2590953 | 13,9719272 | 0,0295537 | 0,0396115 | 0,037289948 | 0,0392110 | 0,00048000 |
| | 270 | 50,84 | 10,7231117 | 12,0110724 | 0,0116606 | 0,0264575 | 0,024506386 | 0,0261405 | 0,00029667 |
| | 300 | 50,73 | 10,5295289 | 11,7687196 | 0,0094491 | 0,0176716 | 0,016090273 | 0,0174269 | 0,00003667 |
| | 330 | 50,66 | 10,4059021 | 11,6144951 | 0,0080418 | 0,0118033 | 0,010555623 | 0,0116179 | 0,00002333 |
| | 360 | 50,62 | 10,3351047 | 11,5263668 | 0,0072376 | 0,0078837 | 0,006919476 | 0,0077452 | 0,00001333 |
| | 390 | 50,60 | 10,2996640 | 11,4823026 | 0,0068355 | 0,0052657 | 0,004532717 | 0,0051635 | 0,00000667 |
| | 420 | 50,58 | 10,2641953 | 11,4382385 | 0,0064335 | 0,0035171 | 0,00296731 | 0,0034423 | 0,00000667 |
| 450 | 50,56 | 10,2286986 | 11,3941743 | 0,0060314 | 0,0023492 | 0,00194136 | 0,0022948 | 0,00000667 | |
| 480 | 50,55 | 10,2109397 | 11,3721422 | 0,0058303 | 0,0015691 | 0,001269419 | 0,0015299 | 0,00000333 | |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-----------|------------|
| 510 | 50,54 | 10,1931737 | 11,3501102 | 0,0056293 | 0,001048 | 0,000829611 | 0,0010199 | 0,00000333 |
| 540 | 50,53 | 10,1754008 | 11,3280781 | 0,0054282 | 0,0007 | 0,000541911 | 0,0006799 | 0,00000333 |
| 570 | 50,52 | 10,1576207 | 11,3060460 | 0,0052272 | 0,0004675 | 0,000353816 | 0,0004533 | 0,00000333 |
| 600 | 50,51 | 10,1398337 | 11,2840139 | 0,0050261 | 0,0003123 | 0,000230905 | 0,0003022 | 0,00000333 |
| 630 | 50,50 | 10,1220396 | 11,2619819 | 0,0048251 | 0,0002086 | 0,000150628 | 0,0002015 | 0,00000333 |
| 660 | 50,49 | 10,1042385 | 11,2399498 | 0,0046240 | 0,0001393 | 9,82205E-05 | 0,0001343 | 0,00000333 |
| 690 | 50,48 | 10,0864303 | 11,2179177 | 0,0044230 | 9,305E-05 | 6,40222E-05 | 0,0000895 | 0,00000333 |
| 720 | 50,47 | 10,0686150 | 11,1958856 | 0,0042220 | 6,215E-05 | 4,17156E-05 | 0,0000597 | 0,00000333 |
| 750 | 50,46 | 10,0507927 | 11,1738536 | 0,0040209 | 4,151E-05 | 2,71714E-05 | 0,0000398 | 0,00000333 |
| 780 | 50,45 | 10,0329633 | 11,1518215 | 0,0038199 | 2,773E-05 | 1,76921E-05 | 0,0000265 | 0,00000333 |
| 810 | 50,44 | 10,0151269 | 11,1297894 | 0,0036188 | 1,852E-05 | 1,1516E-05 | 0,0000177 | 0,00000333 |
| 840 | 50,43 | 9,9972834 | 11,1077573 | 0,0034178 | 1,237E-05 | 7,49358E-06 | 0,0000118 | 0,00000333 |
| 870 | 50,42 | 9,9794328 | 11,0857253 | 0,0032167 | 8,262E-06 | 4,87465E-06 | 0,0000079 | 0,00000333 |
| 900 | 50,41 | 9,9615751 | 11,0636932 | 0,0030157 | 5,519E-06 | 3,17008E-06 | 0,0000052 | 0,00000333 |
| 930 | 50,40 | 9,9437103 | 11,0416611 | 0,0028146 | 3,686E-06 | 2,06098E-06 | 0,0000035 | 0,00000333 |
| 960 | 50,39 | 9,9258385 | 11,0196290 | 0,0026136 | 2,462E-06 | 1,33954E-06 | 0,0000023 | 0,00000333 |
| 990 | 50,38 | 9,907959508 | 10,99759696 | 0,0024125 | 1,644E-06 | 8,70407E-07 | 0,0000016 | 0,00000333 |
| 1020 | 50,37 | 9,890073456 | 10,97556489 | 0,00221150 | 1,098E-06 | 5,65427E-07 | 0,0000010 | 0,00000333 |
| 1050 | 50,36 | 9,872180302 | 10,95353281 | 0,00201045 | 7,336E-07 | 3,67216E-07 | 0,0000007 | 0,00000333 |
| 1080 | 50,35 | 9,85428004 | 10,93150073 | 0,00180941 | 4,9E-07 | 2,38429E-07 | 0,0000005 | 0,00000333 |
| 1110 | 50,34 | 9,836372666 | 10,90946866 | 0,00160836 | 3,273E-07 | 1,54773E-07 | 0,0000003 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-----------|------------|
| 1140 | 50,33 | 9,818458176 | 10,88743658 | 0,00140732 | 2,186E-07 | 1,00445E-07 | 0,0000002 | 0,00000333 |
| 1170 | 50,32 | 9,800536566 | 10,86540451 | 0,00120627 | 1,46E-07 | 6,51725E-08 | 0,0000001 | 0,00000333 |
| 1200 | 50,31 | 9,782607831 | 10,84337243 | 0,00100523 | 9,752E-08 | 4,22771E-08 | 0,0000001 | 0,00000333 |
| 1230 | 50,3 | 9,764671968 | 10,82134036 | 0,00080418 | 6,514E-08 | 2,7419E-08 | 0,0000001 | 0,00000333 |
| 1260 | 50,29 | 9,746728972 | 10,79930828 | 0,00060314 | 4,351E-08 | 1,7779E-08 | 0,0000000 | 0,00000333 |
| 1290 | 50,28 | 9,728778839 | 10,77727621 | 0,00040209 | 2,906E-08 | 1,15259E-08 | 0,0000000 | 0,00000333 |
| 1320 | 50,27 | 9,710821564 | 10,75524413 | 0,00020105 | 1,941E-08 | 7,47059E-09 | 0,0000000 | 0,00000333 |
| 1350 | 50,27 | 9,710821564 | 10,75524413 | 0 | 1,296E-08 | 4,84117E-09 | 0,0000000 | 0,00000000 |
| 1380 | 50,26 | 9,692857143 | 10,73321205 | 0 | 8,659E-09 | 3,13662E-09 | 0,0000000 | 0,00000333 |
| 1410 | 50,26 | 9,692857143 | 10,73321205 | 0 | 5,784E-09 | 2,03185E-09 | 0,0000000 | 0,00000000 |
| 1440 | 50,26 | 9,692857143 | 10,73321205 | 0 | 3,863E-09 | 1,31596E-09 | 0,0000000 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengerinan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|-------------|----------------------|--|
| Tabung 2 Suhu 40° C Ulangan 3 | 0 | 100 | 54,4758000 | 119,6633878 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 84,48 | 46,1124527 | 85,5716300 | 0,6881656 | 0,6687833 | 0,674687704 | 0,6708464 | 0,00517333 |
| | 60 | 71,49 | 36,3208840 | 57,0373560 | 0,4271650 | 0,4472711 | 0,450414787 | 0,4478047 | 0,00433000 |
| | 90 | 65,33 | 30,3165468 | 43,5060913 | 0,3033956 | 0,2991275 | 0,299464997 | 0,2989195 | 0,00205333 |
| | 120 | 60,47 | 24,7160575 | 32,8304506 | 0,2057464 | 0,2000515 | 0,198571054 | 0,1995353 | 0,00162000 |
| | 150 | 56,99 | 20,1189682 | 25,1861647 | 0,1358248 | 0,1337911 | 0,131406117 | 0,1331942 | 0,00116000 |
| | 180 | 54,97 | 17,1835547 | 20,7489643 | 0,0952381 | 0,0894772 | 0,086819777 | 0,0889101 | 0,00067333 |

| | | | | | | | | |
|-----|-------|------------|------------|-----------|-----------|-------------|-----------|------------|
| 210 | 53,19 | 14,4121075 | 16,8389560 | 0,0594736 | 0,0598409 | 0,057284934 | 0,0593494 | 0,00059333 |
| 240 | 51,72 | 11,9795050 | 13,6099042 | 0,0299377 | 0,0400206 | 0,037754003 | 0,0396171 | 0,00049000 |
| 270 | 50,85 | 10,4735497 | 11,6988327 | 0,0124573 | 0,0267651 | 0,024856963 | 0,0264453 | 0,00029000 |
| 300 | 50,74 | 10,2794639 | 11,4572030 | 0,0102471 | 0,0179001 | 0,016350969 | 0,0176528 | 0,00003667 |
| 330 | 50,67 | 10,1555161 | 11,3034386 | 0,0088407 | 0,0119713 | 0,010747012 | 0,0117836 | 0,00002333 |
| 360 | 50,62 | 10,0667720 | 11,1936069 | 0,0078360 | 0,0080062 | 0,007058496 | 0,0078658 | 0,00001667 |
| 390 | 50,59 | 10,0134414 | 11,1277079 | 0,0072333 | 0,0053544 | 0,004632794 | 0,0052506 | 0,00001000 |
| 420 | 50,56 | 9,9600475 | 11,0618089 | 0,0066305 | 0,0035809 | 0,003038803 | 0,0035049 | 0,00001000 |
| 450 | 50,54 | 9,9244163 | 11,0178762 | 0,0062287 | 0,0023949 | 0,001992094 | 0,0023396 | 0,00000667 |
| 480 | 50,52 | 9,8887569 | 10,9739435 | 0,0058268 | 0,0016016 | 0,001305212 | 0,0015617 | 0,00000667 |
| 510 | 50,51 | 9,8709167 | 10,9519772 | 0,0056259 | 0,0010712 | 0,000854735 | 0,0010425 | 0,00000333 |
| 540 | 50,50 | 9,8530693 | 10,9300109 | 0,0054250 | 0,0007164 | 0,000559465 | 0,0006959 | 0,00000333 |
| 570 | 50,49 | 9,8352149 | 10,9080445 | 0,0052240 | 0,0004791 | 0,000366031 | 0,0004645 | 0,00000333 |
| 600 | 50,48 | 9,8173534 | 10,8860782 | 0,0050231 | 0,0003204 | 0,000239373 | 0,0003101 | 0,00000333 |
| 630 | 50,47 | 9,7994848 | 10,8641118 | 0,0048222 | 0,0002143 | 0,000156479 | 0,0002070 | 0,00000333 |
| 660 | 50,46 | 9,7816092 | 10,8421455 | 0,0046213 | 0,0001433 | 0,00010225 | 0,0001382 | 0,00000333 |
| 690 | 50,45 | 9,7637265 | 10,8201792 | 0,0044203 | 9,584E-05 | 6,67904E-05 | 0,0000922 | 0,00000333 |
| 720 | 50,44 | 9,7458366 | 10,7982128 | 0,0042194 | 6,41E-05 | 4,36121E-05 | 0,0000616 | 0,00000333 |
| 750 | 50,43 | 9,7279397 | 10,7762465 | 0,0040185 | 4,287E-05 | 2,84677E-05 | 0,0000411 | 0,00000333 |
| 780 | 50,42 | 9,7100357 | 10,7542801 | 0,0038176 | 2,867E-05 | 1,85761E-05 | 0,0000274 | 0,00000333 |
| 810 | 50,41 | 9,6921246 | 10,7323138 | 0,0036166 | 1,917E-05 | 1,21177E-05 | 0,0000183 | 0,00000333 |

| | | | | | | | | |
|------|-------|-------------|-------------|------------|-----------|-------------|-----------|------------|
| 840 | 50,40 | 9,6742063 | 10,7103475 | 0,0034157 | 1,282E-05 | 7,90226E-06 | 0,0000122 | 0,00000333 |
| 870 | 50,39 | 9,6562810 | 10,6883811 | 0,0032148 | 8,576E-06 | 5,15176E-06 | 0,0000082 | 0,00000333 |
| 900 | 50,38 | 9,6383486 | 10,6664148 | 0,0030139 | 5,735E-06 | 3,35766E-06 | 0,0000054 | 0,00000333 |
| 930 | 50,37 | 9,6204090 | 10,6444484 | 0,0028129 | 3,836E-06 | 2,18776E-06 | 0,0000036 | 0,00000333 |
| 960 | 50,36 | 9,6024623 | 10,6224821 | 0,0026120 | 2,565E-06 | 1,4251E-06 | 0,0000024 | 0,00000333 |
| 990 | 50,35 | 9,584508441 | 10,60051577 | 0,0024111 | 1,716E-06 | 9,28066E-07 | 0,0000016 | 0,00000333 |
| 1020 | 50,34 | 9,566547477 | 10,57854943 | 0,00221017 | 1,147E-06 | 6,04232E-07 | 0,0000011 | 0,00000333 |
| 1050 | 50,33 | 9,548579376 | 10,55658309 | 0,00200924 | 7,673E-07 | 3,933E-07 | 0,0000007 | 0,00000333 |
| 1080 | 50,32 | 9,530604134 | 10,53461675 | 0,00180832 | 5,132E-07 | 2,55941E-07 | 0,0000005 | 0,00000333 |
| 1110 | 50,31 | 9,512621745 | 10,51265041 | 0,00160739 | 3,432E-07 | 1,66517E-07 | 0,0000003 | 0,00000333 |
| 1140 | 50,3 | 9,494632207 | 10,49068408 | 0,00140647 | 2,295E-07 | 1,08312E-07 | 0,0000002 | 0,00000333 |
| 1170 | 50,29 | 9,476635514 | 10,46871774 | 0,00120555 | 1,535E-07 | 7,04373E-08 | 0,0000001 | 0,00000333 |
| 1200 | 50,28 | 9,458631663 | 10,4467514 | 0,00100462 | 1,027E-07 | 4,57969E-08 | 0,0000001 | 0,00000333 |
| 1230 | 50,27 | 9,440620648 | 10,42478506 | 0,00080370 | 6,866E-08 | 2,977E-08 | 0,0000001 | 0,00000333 |
| 1260 | 50,26 | 9,422602467 | 10,40281872 | 0,00060277 | 4,592E-08 | 1,93479E-08 | 0,0000000 | 0,00000333 |
| 1290 | 50,25 | 9,404577114 | 10,38085238 | 0,00040185 | 3,071E-08 | 1,2572E-08 | 0,0000000 | 0,00000333 |
| 1320 | 50,24 | 9,386544586 | 10,35888604 | 0,00020092 | 2,054E-08 | 8,16748E-09 | 0,0000000 | 0,00000333 |
| 1350 | 50,24 | 9,386544586 | 10,35888604 | 0 | 1,374E-08 | 5,30508E-09 | 0,0000000 | 0,00000000 |
| 1380 | 50,23 | 9,368504878 | 10,3369197 | 0 | 9,186E-09 | 3,4452E-09 | 0,0000000 | 0,00000333 |
| 1410 | 50,23 | 9,368504878 | 10,3369197 | 0 | 6,143E-09 | 2,23697E-09 | 0,0000000 | 0,00000000 |
| 1440 | 50,23 | 9,368504878 | 10,3369197 | 0 | 4,109E-09 | 1,4522E-09 | 0,0000000 | 0,00000000 |

NILAI RATA-RATA SUHU 40° C DARI KESELURUHAN EKSPERIMEN

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|------------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|-----------|----------------------|---|
| Suhu 40° C | 0 | 100 | 54,025410 | 117,511615 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 88,793 | 48,2229108 | 93,1358559 | 0,7720985 | 0,6881475 | 0,7869272 | 0,7135179 | 0,0037356 |
| | 60 | 78,837 | 41,6837252 | 71,4789519 | 0,5696174 | 0,4735472 | 0,5356001 | 0,4824042 | 0,0033189 |
| | 90 | 70,307 | 30,6636854 | 44,2247247 | 0,3148046 | 0,3258706 | 0,3351113 | 0,3261501 | 0,0028433 |
| | 120 | 62,813 | 23,1365414 | 30,1009607 | 0,1827547 | 0,2242473 | 0,1965405 | 0,2205079 | 0,0024978 |
| | 150 | 56,113 | 18,0683047 | 22,0530418 | 0,1075106 | 0,1543155 | 0,1092212 | 0,1490840 | 0,0022333 |
| | 180 | 54,247 | 15,2489706 | 17,9928311 | 0,0695496 | 0,1061921 | 0,0579177 | 0,1007948 | 0,0006222 |
| | 210 | 52,720 | 12,7947914 | 14,6721051 | 0,0385032 | 0,0730760 | 0,0294547 | 0,0681468 | 0,0005089 |
| | 240 | 51,877 | 11,3771242 | 12,8377840 | 0,0213529 | 0,0502872 | 0,0144211 | 0,0460737 | 0,0002811 |
| | 270 | 51,397 | 10,5494639 | 11,7937282 | 0,0115915 | 0,0346051 | 0,0068180 | 0,0311502 | 0,0001600 |
| | 300 | 51,297 | 10,3750938 | 11,5762057 | 0,0095579 | 0,0238135 | 0,0031204 | 0,0210605 | 0,0000333 |
| | 330 | 51,220 | 10,2409476 | 11,4094383 | 0,0079989 | 0,0163873 | 0,0013853 | 0,0142389 | 0,0000256 |
| | 360 | 51,187 | 10,1824996 | 11,3369283 | 0,0073210 | 0,0112769 | 0,0005976 | 0,0096268 | 0,0000111 |
| | 390 | 51,160 | 10,1356862 | 11,2789167 | 0,0067787 | 0,0077602 | 0,0002509 | 0,0065087 | 0,0000089 |

| | | | | | | | | |
|-----|--------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| 420 | 51,140 | 10,1005417 | 11,2354144 | 0,0063720 | 0,0053402 | 0,0001026 | 0,0044005 | 0,0000067 |
| 450 | 51,120 | 10,0653698 | 11,1919121 | 0,0059653 | 0,0036749 | 0,0000410 | 0,0029752 | 0,0000067 |
| 480 | 51,110 | 10,0477735 | 11,1701609 | 0,0057619 | 0,0025289 | 0,0000160 | 0,0020115 | 0,0000033 |
| 510 | 51,100 | 10,0301703 | 11,1484098 | 0,0055585 | 0,0017402 | 0,0000061 | 0,0013600 | 0,0000033 |
| 540 | 51,090 | 10,0125603 | 11,1266586 | 0,0053552 | 0,0011976 | 0,0000023 | 0,0009195 | 0,0000033 |
| 570 | 51,080 | 9,9949433 | 11,1049074 | 0,0051518 | 0,0008241 | 0,0000008 | 0,0006217 | 0,0000033 |
| 600 | 51,070 | 9,9773194 | 11,0831563 | 0,0049485 | 0,0005671 | 0,0000003 | 0,0004203 | 0,0000033 |
| 630 | 51,060 | 9,9596887 | 11,0614051 | 0,0047451 | 0,0003903 | 0,0000001 | 0,0002842 | 0,0000033 |
| 660 | 51,050 | 9,9420510 | 11,0396539 | 0,0045417 | 0,0002686 | 0,0000000 | 0,0001921 | 0,0000033 |
| 690 | 51,040 | 9,9244064 | 11,0179028 | 0,0043384 | 0,0001848 | 0,0000000 | 0,0001299 | 0,0000033 |
| 720 | 51,030 | 9,9067549 | 10,9961516 | 0,0041350 | 0,0001272 | 0,0000000 | 0,0000878 | 0,0000033 |
| 750 | 51,020 | 9,8890965 | 10,9744005 | 0,0039316 | 0,0000875 | 0,0000000 | 0,0000594 | 0,0000033 |
| 780 | 51,010 | 9,8714312 | 10,9526493 | 0,0037283 | 0,0000602 | 0,0000000 | 0,0000401 | 0,0000033 |
| 810 | 51,000 | 9,8537589 | 10,9308981 | 0,0035249 | 0,0000414 | 0,0000000 | 0,0000271 | 0,0000033 |
| 840 | 50,990 | 9,8360797 | 10,9091470 | 0,0033216 | 0,0000285 | 0,0000000 | 0,0000184 | 0,0000033 |
| 870 | 50,980 | 9,8183936 | 10,8873958 | 0,0031182 | 0,0000196 | 0,0000000 | 0,0000124 | 0,0000033 |
| 900 | 50,970 | 9,8007005 | 10,8656447 | 0,0029148 | 0,0000135 | 0,0000000 | 0,0000084 | 0,0000033 |
| 930 | 50,960 | 9,7830005 | 10,8438935 | 0,0027115 | 0,0000093 | 0,0000000 | 0,0000057 | 0,0000033 |
| 960 | 50,950 | 9,7652935 | 10,8221423 | 0,0025081 | 0,0000064 | 0,0000000 | 0,0000038 | 0,0000033 |
| 990 | 50,940 | 9,7475796 | 10,8003912 | 0,0023047 | 0,0000044 | 0,0000000 | 0,0000026 | 0,0000033 |

| | | | | | | | | |
|------|--------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| 1020 | 50,930 | 9,7298587 | 10,7786400 | 0,0021014 | 0,0000030 | 0,0000000 | 0,0000018 | 0,0000033 |
| 1050 | 50,920 | 9,7121309 | 10,7568888 | 0,0018980 | 0,0000021 | 0,0000000 | 0,0000012 | 0,0000033 |
| 1080 | 50,910 | 9,6943961 | 10,7351377 | 0,0016947 | 0,0000014 | 0,0000000 | 0,0000008 | 0,0000033 |
| 1110 | 50,900 | 9,6766543 | 10,7133865 | 0,0014913 | 0,0000010 | 0,0000000 | 0,0000005 | 0,0000033 |
| 1140 | 50,890 | 9,6589056 | 10,6916354 | 0,0012879 | 0,0000007 | 0,0000000 | 0,0000004 | 0,0000033 |
| 1170 | 50,880 | 9,6411499 | 10,6698842 | 0,0010846 | 0,0000005 | 0,0000000 | 0,0000002 | 0,0000033 |
| 1200 | 50,870 | 9,6233872 | 10,6481330 | 0,0008812 | 0,0000003 | 0,0000000 | 0,0000002 | 0,0000033 |
| 1230 | 50,860 | 9,6056175 | 10,6263819 | 0,0006779 | 0,0000002 | 0,0000000 | 0,0000001 | 0,0000033 |
| 1260 | 50,850 | 9,5878408 | 10,6046307 | 0,0004745 | 0,0000002 | 0,0000000 | 0,0000001 | 0,0000033 |
| 1290 | 50,840 | 9,5700572 | 10,5828796 | 0,0002711 | 0,0000001 | 0,0000000 | 0,0000001 | 0,0000033 |
| 1320 | 50,837 | 9,5641266 | 10,5756268 | 0,0002034 | 0,0000001 | 0,0000000 | 0,0000000 | 0,0000011 |
| 1350 | 50,827 | 9,5463336 | 10,5538756 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000033 |
| 1380 | 50,827 | 9,5463336 | 10,5538756 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 |
| 1410 | 50,827 | 9,5463336 | 10,5538756 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 |
| 1440 | 50,827 | 9,5463336 | 10,5538756 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 | 0,0000000 |

2. PENGERINGAN SUHU 50° C

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|-------------|----------------------|---|
| Tabung 1 Suhu 50° C Ulangan 1 | 0 | 100 | 54,1351000 | 118,0316538 | 1 | 1 | 1 | 0,99872 | 0 |
| | 30 | 85,21 | 46,1742753 | 85,7847722 | 0,7111328 | 0,66302781 | 0,74147 | 0,662477371 | 0,00493000 |
| | 60 | 74,74 | 38,6340648 | 62,9568581 | 0,5066406 | 0,43960588 | 0,48175 | 0,439438749 | 0,00349000 |
| | 90 | 64,78 | 29,1989812 | 41,2409054 | 0,3121094 | 0,29147093 | 0,29197 | 0,291491336 | 0,00332000 |
| | 120 | 56,83 | 19,2945627 | 23,9073889 | 0,1568359 | 0,19325333 | 0,1681 | 0,193353907 | 0,00265000 |
| | 150 | 52,39 | 12,4548578 | 14,2267834 | 0,0701172 | 0,12813233 | 0,09284 | 0,128256757 | 0,00148000 |
| | 180 | 50,77 | 9,6614142 | 10,6946707 | 0,0384766 | 0,0849553 | 0,04949 | 0,085076097 | 0,00054000 |
| | 210 | 50,06 | 8,3801438 | 9,1466459 | 0,0246094 | 0,05632773 | 0,02558 | 0,056433223 | 0,00023667 |
| | 240 | 49,77 | 7,8462929 | 8,5143541 | 0,0189453 | 0,03734685 | 0,01286 | 0,037433649 | 0,00009667 |
| | 270 | 49,64 | 7,6049557 | 8,2309130 | 0,0164062 | 0,024762 | 0,0063 | 0,024830728 | 0,00004333 |
| | 300 | 49,5 | 7,3436364 | 7,9256686 | 0,0136719 | 0,0164179 | 0,00302 | 0,016470878 | 0,00004667 |
| | 330 | 49,36 | 7,0808347 | 7,6204243 | 0,0109375 | 0,01088552 | 0,00141 | 0,010925569 | 0,00004667 |
| | 360 | 49,2 | 6,7786585 | 7,2715737 | 0,0078125 | 0,0072174 | 0,00065 | 0,007247219 | 0,00005333 |
| | 390 | 49,13 | 6,6458376 | 7,1189515 | 0,0064453 | 0,00478534 | 0,00029 | 0,004807272 | 0,00002333 |
| | 420 | 49,07 | 6,5316894 | 6,9881325 | 0,0052734 | 0,00317281 | 0,00013 | 0,00318879 | 0,00002000 |
| | 450 | 49,02 | 6,4363525 | 6,8791167 | 0,0042969 | 0,00210366 | 5,6E-05 | 0,002115209 | 0,00001667 |
| 480 | 48,98 | 6,3599428 | 6,7919040 | 0,0035156 | 0,00139479 | 2,4E-05 | 0,001403074 | 0,00001333 | |
| 510 | 48,94 | 6,2834083 | 6,7046914 | 0,0027344 | 0,00092478 | 1E-05 | 0,000930696 | 0,00001333 | |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 540 | 48,92 | 6,2450940 | 6,6610851 | 0,0023437 | 0,00061316 | 4,2E-06 | 0,000617355 | 0,00000667 |
| 570 | 48,9 | 6,2067485 | 6,6174787 | 0,0019531 | 0,00040654 | 1,7E-06 | 0,000409508 | 0,00000667 |
| 600 | 48,89 | 6,1875639 | 6,5956756 | 0,0017578 | 0,00026955 | 7E-07 | 0,000271638 | 0,00000333 |
| 630 | 48,87 | 6,1491713 | 6,5520692 | 0,0013672 | 0,00017872 | 2,8E-07 | 0,000180184 | 0,00000667 |
| 660 | 48,86 | 6,1299632 | 6,5302661 | 0,0011719 | 0,00011849 | 1,1E-07 | 0,000119521 | 0,00000333 |
| 690 | 48,85 | 6,1107472 | 6,5084629 | 0,0009766 | 7,8565E-05 | 4,3E-08 | 7,92815E-05 | 0,00000333 |
| 720 | 48,84 | 6,0915233 | 6,4866597 | 0,0007812 | 5,2091E-05 | 1,7E-08 | 5,25895E-05 | 0,00000333 |
| 750 | 48,83 | 6,0722916 | 6,4648566 | 0,0005859 | 3,4538E-05 | 6,3E-09 | 3,4884E-05 | 0,00000333 |
| 780 | 48,82 | 6,0530520 | 6,4430534 | 0,0003906 | 2,2899E-05 | 2,4E-09 | 2,31395E-05 | 0,00000333 |
| 810 | 48,81 | 6,0338045 | 6,4212502 | 0,0001953 | 1,5183E-05 | 8,8E-10 | 1,5349E-05 | 0,00000333 |
| 840 | 48,81 | 6,0338045 | 6,4212502 | 0,0001953 | 1,0067E-05 | 3,2E-10 | 1,01814E-05 | 0,00000000 |
| 870 | 48,80 | 6,0145492 | 6,3994471 | 0 | 6,6745E-06 | 1,2E-10 | 6,7536E-06 | 0,00000333 |
| 900 | 48,80 | 6,0145492 | 6,3994471 | 0 | 4,4254E-06 | 4,2E-11 | 4,47984E-06 | 0,00000000 |
| 930 | 48,80 | 6,0145492 | 6,3994471 | 0 | 2,9342E-06 | 1,5E-11 | 2,9716E-06 | 0,00000000 |
| 960 | 48,80 | 6,0145492 | 6,3994471 | 0 | 1,9454E-06 | 5,3E-12 | 1,97114E-06 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (gH ₂ O/g Padatan.menit) |
|---------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|---------|----------------------|--|
| Tabung 1 Suhu 50° C | 0 | 100 | 54,0255000 | 117,5118816 | 1 | 1 | 1 | 0,99836 | 0 |
| | 30 | 85,19 | 46,0329851 | 85,2983719 | 0,7107422 | 0,66251658 | 0,74119 | 0,661812223 | 0,00493667 |

Ulangan 2

| | | | | | | | | |
|-----|-------|------------|------------|-----------|------------|---------|-------------|------------|
| 60 | 74,70 | 38,4544846 | 62,4813755 | 0,5058594 | 0,43892822 | 0,48107 | 0,438714911 | 0,00349667 |
| 90 | 64,76 | 29,0078752 | 40,8606945 | 0,3117188 | 0,29079722 | 0,29114 | 0,290823842 | 0,00331333 |
| 120 | 56,77 | 19,0162057 | 23,4814952 | 0,1556641 | 0,19265798 | 0,16733 | 0,192786944 | 0,00266333 |
| 150 | 52,38 | 12,2289042 | 13,9327236 | 0,0699219 | 0,12763911 | 0,09223 | 0,127798345 | 0,00146333 |
| 180 | 50,73 | 9,3741376 | 10,3437775 | 0,0376953 | 0,08456303 | 0,04906 | 0,084717444 | 0,00055000 |
| 210 | 50,04 | 8,1245004 | 8,8429455 | 0,0242188 | 0,05602441 | 0,02529 | 0,056159141 | 0,00023000 |
| 240 | 49,75 | 7,5889447 | 8,2121611 | 0,0185547 | 0,0371171 | 0,01268 | 0,037227859 | 0,00009667 |
| 270 | 49,62 | 7,3468360 | 7,9293956 | 0,0160156 | 0,02459069 | 0,0062 | 0,024678325 | 0,00004333 |
| 300 | 49,49 | 7,1034552 | 7,6466302 | 0,0134766 | 0,01629174 | 0,00296 | 0,016359246 | 0,00004333 |
| 330 | 49,36 | 6,8587925 | 7,3638648 | 0,0109375 | 0,01079355 | 0,00138 | 0,010844534 | 0,00004333 |
| 360 | 49,21 | 6,5748832 | 7,0375969 | 0,0080078 | 0,00715091 | 0,00063 | 0,007188835 | 0,00005000 |
| 390 | 49,14 | 6,4417989 | 6,8853386 | 0,0066406 | 0,00473759 | 0,00028 | 0,004765474 | 0,00002333 |
| 420 | 49,08 | 6,3274246 | 6,7548315 | 0,0054688 | 0,00313873 | 0,00013 | 0,00315903 | 0,00002000 |
| 450 | 49,03 | 6,2318988 | 6,6460755 | 0,0044922 | 0,00207946 | 5,4E-05 | 0,002094119 | 0,00001667 |
| 480 | 48,98 | 6,1361780 | 6,5373196 | 0,0035156 | 0,00137768 | 2,3E-05 | 0,00138819 | 0,00001667 |
| 510 | 48,94 | 6,0594606 | 6,4503148 | 0,0027344 | 0,00091274 | 9,7E-06 | 0,00092023 | 0,00001333 |
| 540 | 48,92 | 6,0210548 | 6,4068125 | 0,0023438 | 0,0006047 | 4E-06 | 0,00061002 | 0,00000667 |
| 570 | 48,90 | 5,9826176 | 6,3633101 | 0,0019531 | 0,00040063 | 1,6E-06 | 0,000404382 | 0,00000667 |
| 600 | 48,88 | 5,9441489 | 6,3198077 | 0,0015625 | 0,00026542 | 6,6E-07 | 0,000268065 | 0,00000667 |
| 630 | 48,86 | 5,9056488 | 6,2763053 | 0,0011719 | 0,00017585 | 2,6E-07 | 0,0001777 | 0,00000667 |
| 660 | 48,85 | 5,8863869 | 6,2545542 | 0,0009766 | 0,0001165 | 1E-07 | 0,000117797 | 0,00000333 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 690 | 48,84 | 5,8671171 | 6,2328030 | 0,0007813 | 7,7184E-05 | 4E-08 | 7,80876E-05 | 0,00000333 |
| 720 | 48,83 | 5,8478394 | 6,2110518 | 0,0005859 | 5,1135E-05 | 1,5E-08 | 5,17642E-05 | 0,00000333 |
| 750 | 48,82 | 5,8285539 | 6,1893006 | 0,0003906 | 3,3878E-05 | 5,8E-09 | 3,43145E-05 | 0,00000333 |
| 780 | 48,81 | 5,8092604 | 6,1675494 | 0,0001953 | 2,2445E-05 | 2,2E-09 | 2,2747E-05 | 0,00000333 |
| 810 | 48,81 | 5,8092604 | 6,1675494 | 0,0001953 | 1,487E-05 | 8E-10 | 1,5079E-05 | 0,00000000 |
| 840 | 48,81 | 5,8092604 | 6,1675494 | 0,0001953 | 9,8517E-06 | 2,9E-10 | 9,99586E-06 | 0,00000000 |
| 870 | 48,80 | 5,7899590 | 6,1457982 | 0 | 6,5269E-06 | 1,1E-10 | 6,62625E-06 | 0,00000333 |
| 900 | 48,80 | 5,7899590 | 6,1457982 | 0 | 4,3242E-06 | 3,8E-11 | 4,39254E-06 | 0,00000000 |
| 930 | 48,80 | 5,7899590 | 6,1457982 | 0 | 2,8648E-06 | 1,4E-11 | 2,91181E-06 | 0,00000000 |
| 960 | 48,80 | 5,7899590 | 6,1457982 | 0 | 1,898E-06 | 4,7E-12 | 1,93024E-06 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|---------|----------------------|---|
| Tabung 1 Suhu 50° C Ulangan 3 | 0 | 100 | 54,1526000 | 118,1148767 | 1 | 1 | 1 | 0,999466 | 0 |
| | 30 | 85,19 | 46,1821810 | 85,8120635 | 0,7108551 | 0,66300573 | 0,74118 | 0,66277626 | 0,00493667 |
| | 60 | 74,72 | 38,6410600 | 62,9754359 | 0,5064428 | 0,43957659 | 0,48153 | 0,439507068 | 0,00349000 |
| | 90 | 64,77 | 29,2150687 | 41,2730057 | 0,3121827 | 0,2914418 | 0,2919 | 0,291450486 | 0,00331667 |
| | 120 | 56,80 | 19,2827465 | 23,8892500 | 0,1565795 | 0,19322758 | 0,16813 | 0,193269669 | 0,00265667 |

| | | | | | | | | |
|-----|-------|------------|------------|-----------|------------|---------|-------------|------------|
| 150 | 52,39 | 12,4882611 | 14,2703839 | 0,0704803 | 0,12811099 | 0,09292 | 0,128162987 | 0,00147000 |
| 180 | 50,74 | 9,6424911 | 10,6714885 | 0,0382663 | 0,08493832 | 0,04957 | 0,08498877 | 0,00055000 |
| 210 | 50,04 | 8,3784972 | 9,1446843 | 0,0245998 | 0,05631459 | 0,02564 | 0,056358634 | 0,00023333 |
| 240 | 49,76 | 7,8629421 | 8,5339627 | 0,0191332 | 0,0373369 | 0,0129 | 0,037373122 | 0,00009333 |
| 270 | 49,63 | 7,6215998 | 8,2504133 | 0,0165951 | 0,02475458 | 0,00633 | 0,024783252 | 0,00004333 |
| 300 | 49,49 | 7,3602748 | 7,9450525 | 0,0138618 | 0,01641243 | 0,00304 | 0,016434527 | 0,00004667 |
| 330 | 49,35 | 7,0974671 | 7,6396917 | 0,0111285 | 0,01088153 | 0,00142 | 0,010898234 | 0,00004667 |
| 360 | 49,20 | 6,8142276 | 7,3125194 | 0,0081999 | 0,00721452 | 0,00066 | 0,00722695 | 0,00005000 |
| 390 | 49,13 | 6,6814574 | 7,1598389 | 0,0068333 | 0,00478327 | 0,0003 | 0,00479241 | 0,00002333 |
| 420 | 49,06 | 6,5483082 | 7,0071585 | 0,0054666 | 0,00317133 | 0,00013 | 0,003177993 | 0,00002333 |
| 450 | 49,01 | 6,4529688 | 6,8981011 | 0,0044904 | 0,00210261 | 5,7E-05 | 0,002107423 | 0,00001667 |
| 480 | 48,96 | 6,3574346 | 6,7890437 | 0,0035143 | 0,00139404 | 2,5E-05 | 0,001397497 | 0,00001667 |
| 510 | 48,94 | 6,3191663 | 6,7454207 | 0,0031238 | 0,00092426 | 1E-05 | 0,000926722 | 0,00000667 |
| 540 | 48,92 | 6,2808667 | 6,7017977 | 0,0027333 | 0,00061279 | 4,3E-06 | 0,000614538 | 0,00000667 |
| 570 | 48,90 | 6,2425358 | 6,6581747 | 0,0023428 | 0,00040628 | 1,8E-06 | 0,000407519 | 0,00000667 |
| 600 | 48,87 | 6,1849806 | 6,5927403 | 0,0017571 | 0,00026937 | 7,2E-07 | 0,000270238 | 0,00001000 |
| 630 | 48,85 | 6,1465711 | 6,5491173 | 0,0013667 | 0,00017859 | 2,9E-07 | 0,000179203 | 0,00000667 |
| 660 | 48,84 | 6,1273546 | 6,5273058 | 0,0011714 | 0,00011841 | 1,1E-07 | 0,000118835 | 0,00000333 |
| 690 | 48,83 | 6,1081302 | 6,5054943 | 0,0009762 | 7,8505E-05 | 4,4E-08 | 7,88031E-05 | 0,00000333 |
| 720 | 48,82 | 6,0888980 | 6,4836828 | 0,0007809 | 5,2049E-05 | 1,7E-08 | 5,22567E-05 | 0,00000333 |
| 750 | 48,81 | 6,0696579 | 6,4618713 | 0,0005857 | 3,4509E-05 | 6,5E-09 | 3,4653E-05 | 0,00000333 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 780 | 48,80 | 6,0504098 | 6,4400599 | 0,0003905 | 2,288E-05 | 2,5E-09 | 2,29795E-05 | 0,00000333 |
| 810 | 48,79 | 6,0311539 | 6,4182484 | 0,0001952 | 1,5169E-05 | 9,2E-10 | 1,52384E-05 | 0,00000333 |
| 840 | 48,79 | 6,0311539 | 6,4182484 | 0,0001952 | 1,0057E-05 | 3,4E-10 | 1,0105E-05 | 0,00000000 |
| 870 | 48,78 | 6,0118901 | 6,3964369 | 0 | 6,6681E-06 | 1,2E-10 | 6,70095E-06 | 0,00000333 |
| 900 | 48,78 | 6,0118901 | 6,3964369 | 0 | 4,421E-06 | 4,5E-11 | 4,44361E-06 | 0,00000000 |
| 930 | 48,78 | 6,0118901 | 6,3964369 | 0 | 2,9311E-06 | 1,6E-11 | 2,94669E-06 | 0,00000000 |
| 960 | 48,78 | 6,0118901 | 6,3964369 | 0 | 1,9434E-06 | 5,7E-12 | 1,95404E-06 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|---------|----------------------|---|
| Tabung 2 Suhu 50° C Ulangan 1 | 0 | 100 | 54,3790000 | 119,1972995 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 81,24 | 43,8441654 | 78,0758861 | 0,6348063 | 0,58109834 | 0,64656 | 0,58109834 | 0,00625333 |
| | 60 | 68,12 | 33,0284792 | 49,3172004 | 0,3794043 | 0,33767528 | 0,34892 | 0,337675281 | 0,00437333 |
| | 90 | 56,37 | 19,0686535 | 23,5615177 | 0,1506716 | 0,19622255 | 0,17148 | 0,196222545 | 0,00391667 |
| | 120 | 51,70 | 11,7582205 | 13,3250038 | 0,0597625 | 0,1140246 | 0,0787 | 0,114024595 | 0,00155667 |
| | 150 | 50,65 | 9,9289240 | 11,0234322 | 0,0393226 | 0,0662595 | 0,03417 | 0,066259503 | 0,00035000 |
| | 180 | 50,15 | 9,0309073 | 9,9274457 | 0,0295893 | 0,03850329 | 0,01416 | 0,038503287 | 0,00016667 |
| | 210 | 49,91 | 8,5934682 | 9,4013722 | 0,0249173 | 0,0223742 | 0,00563 | 0,022374196 | 0,00008000 |
| | 240 | 49,75 | 8,2994975 | 9,0506565 | 0,0218026 | 0,01300161 | 0,00216 | 0,013001608 | 0,00005333 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 270 | 49,60 | 8,0221774 | 8,7218605 | 0,0188826 | 0,00755521 | 0,0008 | 0,007555213 | 0,00005000 |
| 300 | 49,43 | 7,7058467 | 8,3492251 | 0,0155733 | 0,00439032 | 0,00029 | 0,004390322 | 0,00005667 |
| 330 | 49,29 | 7,4437005 | 8,0423489 | 0,0128480 | 0,00255121 | 0,0001 | 0,002551209 | 0,00004667 |
| 360 | 49,15 | 7,1800610 | 7,7354727 | 0,0101226 | 0,0014825 | 3,4E-05 | 0,001482503 | 0,00004667 |
| 390 | 49,02 | 6,9339045 | 7,4505162 | 0,0075920 | 0,00086148 | 1,1E-05 | 0,00086148 | 0,00004333 |
| 420 | 48,88 | 6,6673486 | 7,1436400 | 0,0048667 | 0,0005006 | 3,7E-06 | 0,000500605 | 0,00004667 |
| 450 | 48,82 | 6,5526424 | 7,0121216 | 0,0036987 | 0,0002909 | 1,2E-06 | 0,000290901 | 0,00002000 |
| 480 | 48,79 | 6,4951834 | 6,9463624 | 0,0031147 | 0,00016904 | 3,7E-07 | 0,000169042 | 0,00001000 |
| 510 | 48,76 | 6,4376538 | 6,8806032 | 0,0025307 | 9,823E-05 | 1,1E-07 | 9,82299E-05 | 0,00001000 |
| 540 | 48,74 | 6,3992614 | 6,8367638 | 0,0021413 | 5,7081E-05 | 3,3E-08 | 5,70812E-05 | 0,00000667 |
| 570 | 48,73 | 6,3800534 | 6,8148440 | 0,0019467 | 3,317E-05 | 9,8E-09 | 3,31698E-05 | 0,00000333 |
| 600 | 48,72 | 6,3608374 | 6,7929243 | 0,0017520 | 1,9275E-05 | 2,8E-09 | 1,92749E-05 | 0,00000333 |
| 630 | 48,72 | 6,3608374 | 6,7929243 | 0,0017520 | 1,1201E-05 | 8E-10 | 1,12006E-05 | 0,00000000 |
| 660 | 48,71 | 6,3416136 | 6,7710046 | 0,0015573 | 6,5087E-06 | 2,2E-10 | 6,50867E-06 | 0,00000333 |
| 690 | 48,70 | 6,3223819 | 6,7490849 | 0,0013627 | 3,7822E-06 | 6,2E-11 | 3,78217E-06 | 0,00000333 |
| 720 | 48,69 | 6,3031423 | 6,7271651 | 0,0011680 | 2,1978E-06 | 1,7E-11 | 2,19782E-06 | 0,00000333 |
| 750 | 48,68 | 6,2838948 | 6,7052454 | 0,0009733 | 1,2771E-06 | 4,4E-12 | 1,27715E-06 | 0,00000333 |
| 780 | 48,67 | 6,2646394 | 6,6833257 | 0,0007787 | 7,4215E-07 | 1,2E-12 | 7,42148E-07 | 0,00000333 |
| 810 | 48,66 | 6,2453761 | 6,6614059 | 0,0005840 | 4,3126E-07 | 3E-13 | 4,31261E-07 | 0,00000333 |
| 840 | 48,65 | 6,2261048 | 6,6394862 | 0,0003893 | 2,5061E-07 | 7,7E-14 | 2,50605E-07 | 0,00000333 |
| 870 | 48,64 | 6,2068257 | 6,6175665 | 0 | 1,4563E-07 | 1,9E-14 | 1,45626E-07 | 0,00000333 |

| | | | | | | | | |
|-----|-------|-----------|-----------|---|------------|---------|-------------|------------|
| 900 | 48,63 | 6,1875386 | 6,5956467 | 0 | 8,4623E-08 | 4,8E-15 | 8,46231E-08 | 0,00000333 |
| 930 | 48,63 | 6,1875386 | 6,5956467 | 0 | 4,9174E-08 | 1,2E-15 | 4,91744E-08 | 0,00000000 |
| 960 | 48,63 | 6,1875386 | 6,5956467 | 0 | 2,8575E-08 | 2,9E-16 | 2,85751E-08 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (gH ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|---------|----------------------|--|
| Tabung 2 Suhu 50° C Ulangan 2 | 0 | 100 | 54,3732000 | 119,1694355 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 81,20 | 43,8093596 | 77,9655816 | 0,6340989 | 0,58073059 | 0,64599 | 0,580730586 | 0,00626667 |
| | 60 | 68,09 | 32,9904538 | 49,2324686 | 0,3789412 | 0,33724801 | 0,34842 | 0,337248014 | 0,00437000 |
| | 90 | 56,36 | 19,0440028 | 23,5238939 | 0,1506423 | 0,19585024 | 0,17119 | 0,195850237 | 0,00391000 |
| | 120 | 51,68 | 11,7128483 | 13,2667643 | 0,0595562 | 0,11373622 | 0,07856 | 0,113736223 | 0,00156000 |
| | 150 | 50,64 | 9,8996840 | 10,9874021 | 0,0393149 | 0,0660501 | 0,03412 | 0,066050103 | 0,00034667 |
| | 180 | 50,12 | 8,9648843 | 9,8477211 | 0,0291942 | 0,03835732 | 0,01414 | 0,038357315 | 0,00017333 |
| | 210 | 49,87 | 8,5085222 | 9,2997975 | 0,0243285 | 0,02227527 | 0,00563 | 0,022275266 | 0,00008333 |
| | 240 | 49,73 | 8,2509552 | 8,9929603 | 0,0216037 | 0,01293593 | 0,00216 | 0,012935928 | 0,00004667 |
| | 270 | 49,58 | 7,9733764 | 8,6642061 | 0,0186843 | 0,00751229 | 0,0008 | 0,007512289 | 0,00005000 |
| | 300 | 49,42 | 7,6754350 | 8,3135350 | 0,0155703 | 0,00436262 | 0,00029 | 0,004362616 | 0,00005333 |
| | 330 | 49,27 | 7,3943576 | 7,9847809 | 0,0126508 | 0,0025335 | 0,0001 | 0,002533505 | 0,00005000 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 360 | 49,14 | 7,1493691 | 7,6998606 | 0,0101207 | 0,00147128 | 3,4E-05 | 0,001471284 | 0,00004333 |
| 390 | 49,01 | 6,9030810 | 7,4149403 | 0,0075905 | 0,00085442 | 1,1E-05 | 0,000854419 | 0,00004333 |
| 420 | 48,90 | 6,6936605 | 7,1738540 | 0,0054496 | 0,00049619 | 3,7E-06 | 0,000496187 | 0,00003667 |
| 450 | 48,79 | 6,4832958 | 6,9327676 | 0,0033087 | 0,00028815 | 1,2E-06 | 0,000288151 | 0,00003667 |
| 480 | 48,77 | 6,4449457 | 6,8889337 | 0,0029194 | 0,00016734 | 3,7E-07 | 0,000167338 | 0,00000667 |
| 510 | 48,75 | 6,4065641 | 6,8450998 | 0,0025302 | 9,7178E-05 | 1,1E-07 | 9,71784E-05 | 0,00000667 |
| 540 | 48,73 | 6,3681510 | 6,8012659 | 0,0021409 | 5,6434E-05 | 3,4E-08 | 5,64345E-05 | 0,00000667 |
| 570 | 48,72 | 6,3489327 | 6,7793490 | 0,0019463 | 3,2773E-05 | 1E-08 | 3,27732E-05 | 0,00000333 |
| 600 | 48,71 | 6,3297064 | 6,7574320 | 0,0017517 | 1,9032E-05 | 2,9E-09 | 1,90324E-05 | 0,00000333 |
| 630 | 48,70 | 6,3104723 | 6,7355151 | 0,0015570 | 1,1053E-05 | 8,2E-10 | 1,10527E-05 | 0,00000333 |
| 660 | 48,69 | 6,2912302 | 6,7135981 | 0,0013624 | 6,4186E-06 | 2,3E-10 | 6,41865E-06 | 0,00000333 |
| 690 | 48,68 | 6,2719803 | 6,6916812 | 0,0011678 | 3,7275E-06 | 6,3E-11 | 3,7275E-06 | 0,00000333 |
| 720 | 48,67 | 6,2527224 | 6,6697643 | 0,0009731 | 2,1647E-06 | 1,7E-11 | 2,16468E-06 | 0,00000333 |
| 750 | 48,66 | 6,2334566 | 6,6478473 | 0,0007785 | 1,2571E-06 | 4,6E-12 | 1,25709E-06 | 0,00000333 |
| 780 | 48,65 | 6,2141829 | 6,6259304 | 0,0005839 | 7,3003E-07 | 1,2E-12 | 7,30033E-07 | 0,00000333 |
| 810 | 48,64 | 6,1949013 | 6,6040134 | 0,0003893 | 4,2395E-07 | 3,1E-13 | 4,23952E-07 | 0,00000333 |
| 840 | 48,63 | 6,1756118 | 6,5820965 | 0,0001946 | 2,462E-07 | 8E-14 | 2,46202E-07 | 0,00000333 |
| 870 | 48,62 | 6,1563143 | 6,5601795 | 0 | 1,4298E-07 | 2E-14 | 1,42977E-07 | 0,00000333 |
| 900 | 48,62 | 6,1563143 | 6,5601795 | 0 | 8,3031E-08 | 5E-15 | 8,30311E-08 | 0,00000000 |
| 930 | 48,62 | 6,1563143 | 6,5601795 | 0 | 4,8219E-08 | 1,2E-15 | 4,82187E-08 | 0,00000000 |
| 960 | 48,62 | 6,1563143 | 6,5601795 | 0 | 2,8002E-08 | 3E-16 | 2,80021E-08 | 0,00000000 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|------------|-------------|----------------------|---|
| Tabung 2 Suhu 50° C Ulangan 3 | 0 | 100 | 54,3886700 | 119,2437712 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 81,22 | 43,8422433 | 78,0697910 | 0,6345593 | 0,5849346 | 0,64574 | 0,584934595 | 0,00626000 |
| | 60 | 68,11 | 33,0328439 | 49,3269326 | 0,3794513 | 0,34214848 | 0,35406 | 0,34214848 | 0,00437000 |
| | 90 | 57,34 | 20,4546041 | 25,7143784 | 0,1698774 | 0,20013448 | 0,17876 | 0,200134483 | 0,00359000 |
| | 120 | 51,66 | 11,7086140 | 13,2613322 | 0,0593501 | 0,11706558 | 0,08502 | 0,117065583 | 0,00189333 |
| | 150 | 50,65 | 9,9480158 | 11,0469701 | 0,0396964 | 0,06847571 | 0,03854 | 0,068475709 | 0,00033667 |
| | 180 | 50,12 | 8,9957502 | 9,8849781 | 0,0293831 | 0,04005381 | 0,01678 | 0,040053811 | 0,00017667 |
| | 210 | 49,86 | 8,5211994 | 9,3149443 | 0,0243238 | 0,02342886 | 0,00706 | 0,02342886 | 0,00008667 |
| | 240 | 49,74 | 8,3005026 | 9,0518518 | 0,0219887 | 0,01370435 | 0,00287 | 0,013704351 | 0,00004000 |
| | 270 | 49,61 | 8,0602096 | 8,7668349 | 0,0194590 | 0,00801615 | 0,00114 | 0,008016149 | 0,00004333 |
| | 300 | 49,43 | 7,7254097 | 8,3721961 | 0,0159564 | 0,00468892 | 0,00044 | 0,004688923 | 0,00006000 |
| | 330 | 49,29 | 7,4633191 | 8,0652548 | 0,0132321 | 0,00274271 | 0,00017 | 0,002742713 | 0,00004667 |
| | 360 | 49,15 | 7,1997355 | 7,7583136 | 0,0105079 | 0,00160431 | 6,1E-05 | 0,001604308 | 0,00004667 |
| | 390 | 49,01 | 6,9346460 | 7,4513723 | 0,0077836 | 0,00093842 | 2,2E-05 | 0,000938415 | 0,00004667 |
| 420 | 48,89 | 6,7062180 | 7,1882798 | 0,0054485 | 0,00054891 | 7,8E-06 | 0,000548911 | 0,00004000 | |
| 450 | 48,81 | 6,5533087 | 7,0128847 | 0,0038918 | 0,00032108 | 2,7E-06 | 0,000321077 | 0,00002667 | |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|------------|---------|-------------|------------|
| 480 | 48,79 | 6,5150031 | 6,9690360 | 0,0035026 | 0,00018781 | 9,3E-07 | 0,000187809 | 0,00000667 |
| 510 | 48,77 | 6,4766660 | 6,9251872 | 0,0031134 | 0,00010986 | 3,1E-07 | 0,000109856 | 0,00000667 |
| 540 | 48,75 | 6,4382974 | 6,8813385 | 0,0027243 | 6,4259E-05 | 1E-07 | 6,42586E-05 | 0,00000667 |
| 570 | 48,72 | 6,3806856 | 6,8155653 | 0,0021405 | 3,7587E-05 | 3,3E-08 | 3,75871E-05 | 0,00001000 |
| 600 | 48,70 | 6,3422382 | 6,7717166 | 0,0017513 | 2,1986E-05 | 1,1E-08 | 2,1986E-05 | 0,00000667 |
| 630 | 48,69 | 6,3230027 | 6,7497922 | 0,0015567 | 1,286E-05 | 3,4E-09 | 1,28604E-05 | 0,00000333 |
| 660 | 48,68 | 6,3037592 | 6,7278678 | 0,0013621 | 7,5225E-06 | 1,1E-09 | 7,52248E-06 | 0,00000333 |
| 690 | 48,67 | 6,2845079 | 6,7059435 | 0,0011675 | 4,4002E-06 | 3,3E-10 | 4,40016E-06 | 0,00000333 |
| 720 | 48,66 | 6,2652487 | 6,6840191 | 0,0009730 | 2,5738E-06 | 9,9E-11 | 2,5738E-06 | 0,00000333 |
| 750 | 48,65 | 6,2459815 | 6,6620947 | 0,0007784 | 1,5055E-06 | 3E-11 | 1,50551E-06 | 0,00000333 |
| 780 | 48,64 | 6,2267064 | 6,6401703 | 0,0005838 | 8,8062E-07 | 8,8E-12 | 8,80623E-07 | 0,00000333 |
| 810 | 48,63 | 6,2074234 | 6,6182459 | 0,0003892 | 5,1511E-07 | 2,6E-12 | 5,15107E-07 | 0,00000333 |
| 840 | 48,62 | 6,1881325 | 6,5963216 | 0,0001946 | 3,013E-07 | 7,5E-13 | 3,01304E-07 | 0,00000333 |
| 870 | 48,62 | 6,1881325 | 6,5963216 | 0 | 1,7624E-07 | 2,1E-13 | 1,76243E-07 | 0,00000000 |
| 900 | 48,61 | 6,1688336 | 6,5743972 | 0 | 1,0309E-07 | 6,1E-14 | 1,03091E-07 | 0,00000333 |
| 930 | 48,61 | 6,1688336 | 6,5743972 | 0 | 6,0301E-08 | 1,7E-14 | 6,03013E-08 | 0,00000000 |
| 960 | 48,61 | 6,1688336 | 6,5743972 | 0 | 3,5272E-08 | 4,8E-15 | 3,52723E-08 | 0,00000000 |

NILAI RATA-RATA SUHU 50° C DARI SELURUH HASIL EKSPERIMEN TABUNG 1 DAN 2

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Suhu 50° C | 0 | 100 | 54,104400000 | 117,886137388 | 1 | 1 | 1 | 0,998848667 | 0 |
| | 30 | 85,197 | 46,129813806 | 85,631735885 | 0,710910045 | 0,662850040 | 0,741279172 | 0,662355285 | 0,004934444 |
| | 60 | 74,720 | 38,576536440 | 62,804556508 | 0,506314265 | 0,439370232 | 0,481451818 | 0,439220243 | 0,003492222 |
| | 90 | 64,770 | 29,140641701 | 41,124868512 | 0,312003622 | 0,291236650 | 0,291669524 | 0,291255221 | 0,003316667 |
| | 120 | 56,800 | 19,197838317 | 23,759378014 | 0,156359820 | 0,193046298 | 0,167855032 | 0,193136840 | 0,002656667 |
| | 150 | 52,387 | 12,390674359 | 14,143296982 | 0,070173114 | 0,127960811 | 0,092663269 | 0,128072697 | 0,001471111 |
| | 180 | 50,747 | 9,559347648 | 10,569978880 | 0,038146059 | 0,084818883 | 0,049374482 | 0,084927437 | 0,000546667 |
| | 210 | 50,047 | 8,294380476 | 9,044758593 | 0,024475963 | 0,056222243 | 0,025504055 | 0,056316999 | 0,000233333 |
| | 240 | 49,760 | 7,766059931 | 8,420159290 | 0,018877717 | 0,037266949 | 0,012812670 | 0,037344877 | 0,000095556 |
| | 270 | 49,630 | 7,524463824 | 8,136907312 | 0,016338985 | 0,024702424 | 0,006276175 | 0,024764102 | 0,000043333 |
| | 300 | 49,493 | 7,269122137 | 7,839117115 | 0,013670070 | 0,016374021 | 0,003003739 | 0,016421551 | 0,000045556 |
| | 330 | 49,357 | 7,012364767 | 7,541326919 | 0,011001155 | 0,010853534 | 0,001406932 | 0,010889446 | 0,000045556 |
| | 360 | 49,203 | 6,722589778 | 7,207229991 | 0,008006745 | 0,007194276 | 0,000645868 | 0,007221001 | 0,000051111 |
| | 390 | 49,133 | 6,589697958 | 7,054709695 | 0,006639735 | 0,004768733 | 0,000290938 | 0,004788385 | 0,000023333 |
| | 420 | 49,070 | 6,469140743 | 6,916707517 | 0,005402934 | 0,003160960 | 0,000128736 | 0,003175271 | 0,000021111 |
| | 450 | 49,020 | 6,373740043 | 6,807764448 | 0,004426499 | 0,002095246 | 0,000056007 | 0,002105584 | 0,000016667 |
| | 480 | 48,973 | 6,284518502 | 6,706089101 | 0,003515167 | 0,001388837 | 0,000023976 | 0,001396254 | 0,000015556 |
| 510 | 48,940 | 6,220678382 | 6,633475638 | 0,002864176 | 0,000920592 | 0,000010107 | 0,000925883 | 0,000011111 | |

| | | | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 540 | 48,920 | 6,182338512 | 6,589898410 | 0,002473602 | 0,000610216 | 0,000004198 | 0,000613971 | 0,000006667 |
| 570 | 48,900 | 6,143967280 | 6,546321183 | 0,002083028 | 0,000404483 | 0,000001719 | 0,000407136 | 0,000006667 |
| 600 | 48,880 | 6,105564472 | 6,502741181 | 0,001692479 | 0,000268112 | 0,000000695 | 0,000269980 | 0,000006667 |
| 630 | 48,860 | 6,067130400 | 6,459163954 | 0,001301905 | 0,000177718 | 0,000000277 | 0,000179029 | 0,000006667 |
| 660 | 48,850 | 6,047901562 | 6,437375340 | 0,001106618 | 0,000117801 | 0,000000109 | 0,000118718 | 0,000003333 |
| 690 | 48,840 | 6,028664850 | 6,415586726 | 0,000911331 | 0,000078085 | 0,000000042 | 0,000078724 | 0,000003333 |
| 720 | 48,830 | 6,009420259 | 6,393798113 | 0,000716044 | 0,000051759 | 0,000000016 | 0,000052203 | 0,000003333 |
| 750 | 48,820 | 5,990167784 | 6,372009499 | 0,000520757 | 0,000034308 | 0,000000006 | 0,000034617 | 0,000003333 |
| 780 | 48,810 | 5,970907420 | 6,350220885 | 0,000325470 | 0,000022741 | 0,000000002 | 0,000022955 | 0,000003333 |
| 810 | 48,803 | 5,958072957 | 6,335682668 | 0,000195287 | 0,000015074 | 0,000000001 | 0,000015222 | 0,000002222 |
| 840 | 48,803 | 5,958072957 | 6,335682668 | 0,000195287 | 0,000009992 | 0,000000000 | 0,000010094 | 0,000000000 |
| 870 | 48,793 | 5,938799439 | 6,313894054 | 0,000000000 | 0,000006623 | 0,000000000 | 0,000006694 | 0,000003333 |
| 900 | 48,793 | 5,938799439 | 6,313894054 | 0,000000000 | 0,000004390 | 0,000000000 | 0,000004439 | 0,000000000 |
| 930 | 48,793 | 5,938799439 | 6,313894054 | 0,000000000 | 0,000002910 | 0,000000000 | 0,000002943 | 0,000000000 |
| 960 | 48,793 | 5,938799439 | 6,313894054 | 0,000000000 | 0,000001929 | 0,000000000 | 0,000001952 | 0,000000000 |

3. PENGERINGAN SUHU 60° C

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengerinan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|--|
| Tabung 1 Suhu 60° C Ulangan 1 | 0 | 100 | 54,6205000 | 120,3638207 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 76,35 | 40,5638507 | 68,2477771 | 0,5453672 | 0,45308179 | 0,543426828 | 0,45308179 | 0,00788333 |
| | 60 | 55,97 | 18,9217438 | 23,3376304 | 0,1535948 | 0,205283108 | 0,158627623 | 0,205283109 | 0,00679333 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|-------------|-------------|-------------|------------|
| 90 | 49,77 | 8,8215793 | 9,6750735 | 0,0344098 | 0,093010038 | 0,029776604 | 0,093010039 | 0,00206667 |
| 120 | 48,91 | 7,2183603 | 7,7799447 | 0,0178777 | 0,042141155 | 0,00385396 | 0,042141155 | 0,00028667 |
| 150 | 48,71 | 6,8374051 | 7,3392170 | 0,0140331 | 0,01909339 | 0,000358606 | 0,01909339 | 0,00006667 |
| 180 | 48,58 | 6,5881021 | 7,0527441 | 0,0115340 | 0,008650867 | 2,46922E-05 | 0,008650867 | 0,00004333 |
| 210 | 48,37 | 6,1825512 | 6,5899801 | 0,0074971 | 0,00391955 | 1,28568E-06 | 0,00391955 | 0,00007000 |
| 240 | 48,25 | 5,9492228 | 6,3255435 | 0,0051903 | 0,001775877 | 5,14924E-08 | 0,001775877 | 0,00004000 |
| 270 | 48,18 | 5,8125778 | 6,1712888 | 0,0038447 | 0,000804617 | 1,60851E-09 | 0,000804617 | 0,00002333 |
| 300 | 48,13 | 5,7147309 | 6,0611069 | 0,0028835 | 0,000364558 | 3,96489E-11 | 0,000364558 | 0,00001667 |
| 330 | 48,09 | 5,6363069 | 5,9729614 | 0,0021146 | 0,000165174 | 7,78903E-13 | 0,000165174 | 0,00001333 |
| 360 | 48,06 | 5,5774032 | 5,9068522 | 0,0015379 | 0,000074838 | 1,23006E-14 | 7,48375E-05 | 0,00001000 |
| 390 | 48,03 | 5,5184260 | 5,8407431 | 0,0009612 | 0,000033908 | 1,57347E-16 | 3,39075E-05 | 0,00001000 |
| 420 | 48,01 | 5,4790669 | 5,7966703 | 0,0005767 | 0,000015363 | 1,64137E-18 | 1,53629E-05 | 0,00000667 |
| 450 | 47,99 | 5,4396749 | 5,7525975 | 0,0001922 | 0,000006961 | 1,40476E-20 | 6,96064E-06 | 0,00000667 |
| 480 | 47,99 | 5,4396749 | 5,7525975 | 0,0001922 | 0,000003154 | 9,91793E-23 | 3,15374E-06 | 0,00000000 |
| 510 | 47,98 | 5,4199667 | 5,7305612 | 0 | 0,000001429 | 5,80529E-25 | 1,4289E-06 | 0,00000333 |
| 540 | 47,98 | 5,4199667 | 5,7305612 | 0 | 0,000000647 | 2,83005E-27 | 6,47409E-07 | 0 |
| 570 | 47,98 | 5,4199667 | 5,7305612 | 0 | 0,000000293 | 1,15386E-29 | 2,93329E-07 | 0 |
| 600 | 47,98 | 5,4199667 | 5,7305612 | 0 | 0,000000133 | 3,9499E-32 | 1,32902E-07 | 0 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|--------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|---------|----------------------|---|
|--------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|---------|----------------------|---|

| | | | | | | | | | |
|--|-------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|
| Tabung 1 Suhu 60° C Ulangan 2 | 0 | 100 | 54,6208000 | 120,3652775 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 76,26 | 40,4940991 | 68,0505606 | 0,5437248 | 0,452095277 | 0,541835864 | 0,452095277 | 0,00791333 |
| | 60 | 55,92 | 18,8497854 | 23,2282632 | 0,1527965 | 0,204390139 | 0,157756646 | 0,204390139 | 0,00678000 |
| | 90 | 49,75 | 8,7855276 | 9,6317255 | 0,0342110 | 0,092403817 | 0,029575457 | 0,092403817 | 0,00205667 |
| | 120 | 48,87 | 7,1430325 | 7,6925111 | 0,0172977 | 0,041775329 | 0,003828839 | 0,041775329 | 0,00029333 |
| | 150 | 48,72 | 6,8571429 | 7,3619632 | 0,0144148 | 0,018886429 | 0,000356922 | 0,018886429 | 0,00005000 |
| | 180 | 48,55 | 6,5309990 | 6,9873422 | 0,0111474 | 0,008538465 | 2,46616E-05 | 0,008538465 | 0,00005667 |
| | 210 | 48,35 | 6,1443640 | 6,5466117 | 0,0073035 | 0,0038602 | 1,29068E-06 | 0,0038602 | 0,00006667 |
| | 240 | 48,23 | 5,9108439 | 6,2821733 | 0,0049971 | 0,001745178 | 5,20434E-08 | 0,001745178 | 0,00004000 |
| | 270 | 48,17 | 5,7936475 | 6,1499542 | 0,0038439 | 0,000788987 | 1,63947E-09 | 0,000788987 | 0,00002000 |
| | 300 | 48,13 | 5,7153542 | 6,0618081 | 0,0030751 | 0,000356697 | 4,08211E-11 | 0,000356697 | 0,00001333 |
| | 330 | 48,09 | 5,6369308 | 5,9736619 | 0,0023064 | 0,000161261 | 8,11375E-13 | 0,000161261 | 0,00001333 |
| | 360 | 48,06 | 5,5780275 | 5,9075524 | 0,0017298 | 7,29054E-05 | 1,29856E-14 | 7,29054E-05 | 0,00001000 |
| | 390 | 48,03 | 5,5190506 | 5,8414428 | 0,0011532 | 3,29602E-05 | 1,68614E-16 | 3,29602E-05 | 0,00001000 |
| | 420 | 48,01 | 5,4796917 | 5,7973697 | 0,0007688 | 1,49011E-05 | 1,78831E-18 | 1,49011E-05 | 0,00000667 |
| | 450 | 47,99 | 5,4403001 | 5,7532967 | 0,0003844 | 6,73674E-06 | 1,55861E-20 | 6,73674E-06 | 0,00000667 |
| | 480 | 47,98 | 5,4205919 | 5,7312601 | 0,0001922 | 3,04565E-06 | 1,12239E-22 | 3,04565E-06 | 0,00000333 |
| 510 | 47,97 | 5,4008755 | 5,7092236 | 0 | 1,37692E-06 | 6,7116E-25 | 1,37692E-06 | 0,00000333 | |
| 540 | 47,97 | 5,4008755 | 5,7092236 | 0 | 6,225E-07 | 3,34779E-27 | 6,225E-07 | 0 | |
| 570 | 47,97 | 5,4008755 | 5,7092236 | 0 | 2,81429E-07 | 1,39881E-29 | 2,81429E-07 | 0 | |
| 600 | 47,97 | 5,4008755 | 5,7092236 | 0 | 1,27233E-07 | 4,91485E-32 | 1,27233E-07 | 0 | |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 1 Suhu 60° C Ulangan 3 | 0 | 100 | 54,5706000 | 120,1217714 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 76,42 | 40,5529966 | 68,2170577 | 0,5465385 | 0,452075613 | 0,544599765 | 0,452075613 | 0,00786000 |
| | 60 | 55,84 | 18,6436246 | 22,9159971 | 0,1507692 | 0,204372359 | 0,156012224 | 0,20437236 | 0,00686000 |
| | 90 | 49,77 | 8,7213181 | 9,5546056 | 0,0340385 | 0,09239176 | 0,02810387 | 0,09239176 | 0,00202333 |
| | 120 | 48,84 | 6,9832105 | 7,5074731 | 0,0161538 | 0,041768061 | 0,003415024 | 0,041768061 | 0,00031000 |
| | 150 | 48,67 | 6,6583111 | 7,1332661 | 0,0128846 | 0,018882322 | 0,000292039 | 0,018882322 | 0,00005667 |
| | 180 | 48,52 | 6,3697444 | 6,8030835 | 0,0100000 | 0,008536237 | 1,81009E-05 | 0,008536237 | 0,00005000 |
| | 210 | 48,37 | 6,0793881 | 6,4729008 | 0,0071154 | 0,003859025 | 8,31362E-07 | 0,003859025 | 0,00005000 |
| | 240 | 48,23 | 5,8067593 | 6,1647303 | 0,0044231 | 0,001744571 | 2,87941E-08 | 0,001744571 | 0,00004667 |
| | 270 | 48,16 | 5,6698505 | 6,0106451 | 0,0030769 | 0,000788678 | 7,62872E-10 | 0,000788678 | 0,00002333 |
| | 300 | 48,11 | 5,5718146 | 5,9005842 | 0,0021154 | 0,000356542 | 1,56476E-11 | 0,000356542 | 0,00001667 |
| | 330 | 48,06 | 5,4735747 | 5,7905233 | 0,0011538 | 0,000161184 | 2,51047E-13 | 0,000161184 | 0,00001667 |
| | 360 | 48,04 | 5,4342215 | 5,7464990 | 0,0007692 | 7,28673E-05 | 3,17871E-15 | 7,28673E-05 | 0,00000667 |
| | 390 | 48,02 | 5,3948355 | 5,7024746 | 0,0003846 | 3,29416E-05 | 3,20149E-17 | 3,29416E-05 | 0,00000667 |
| | 420 | 48,01 | 5,3751302 | 5,6804624 | 0,0001923 | 1,48921E-05 | 2,58288E-19 | 1,48921E-05 | 0,00000333 |
| | 450 | 48,01 | 5,3751302 | 5,6804624 | 0,0001923 | 6,73234E-06 | 1,67972E-21 | 6,73234E-06 | 0,00000000 |
| 480 | 48,01 | 5,3751302 | 5,6804624 | 0,0001923 | 3,04353E-06 | 8,85582E-24 | 3,04353E-06 | 0,00000000 | |
| 510 | 48 | 5,3554167 | 5,6584503 | 0 | 1,3759E-06 | 3,8048E-26 | 1,3759E-06 | 0,00000333 | |

| | | | | | | | | |
|-----|----|-----------|-----------|---|-------------|-------------|-------------|---|
| 540 | 48 | 5,3554167 | 5,6584503 | 0 | 6,22013E-07 | 1,33849E-28 | 6,22013E-07 | 0 |
| 570 | 48 | 5,3554167 | 5,6584503 | 0 | 2,81197E-07 | 3,87241E-31 | 2,81197E-07 | 0 |
| 600 | 48 | 5,3554167 | 5,6584503 | 0 | 1,27122E-07 | 9,25114E-34 | 1,27122E-07 | 0 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|--|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 2 Suhu 60° C Ulangan 1 | 0 | 100 | 54,2149000 | 118,4116667 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 71,06 | 35,5683929 | 55,2033303 | 0,4383854 | 0,395811965 | 0,435316949 | 0,395811966 | 0,00964667 |
| | 60 | 54,48 | 15,9598018 | 18,9906760 | 0,1166311 | 0,156667112 | 0,12633953 | 0,156667113 | 0,00552667 |
| | 90 | 50,42 | 9,1925823 | 10,1231623 | 0,0378420 | 0,062010717 | 0,029437634 | 0,062010718 | 0,00135333 |
| | 120 | 49,51 | 7,5235306 | 8,1356162 | 0,0201824 | 0,024544584 | 0,005822436 | 0,024544584 | 0,00030333 |
| | 150 | 49,31 | 7,1484486 | 7,6987928 | 0,0163012 | 0,00971504 | 0,001007315 | 0,00971504 | 0,00006667 |
| | 180 | 49,07 | 6,6943142 | 7,1746048 | 0,0116437 | 0,003845329 | 0,000155396 | 0,003845329 | 0,00008000 |
| | 210 | 48,92 | 6,4082175 | 6,8469873 | 0,0087328 | 0,001522027 | 2,16685E-05 | 0,001522027 | 0,00005000 |
| | 240 | 48,79 | 6,1588440 | 6,5630522 | 0,0062100 | 0,000602437 | 2,75907E-06 | 0,000602437 | 0,00004333 |
| | 270 | 48,72 | 6,0240148 | 6,4101640 | 0,0048515 | 0,000238452 | 3,23374E-07 | 0,000238452 | 0,00002333 |
| | 300 | 48,63 | 5,8500925 | 6,2135935 | 0,0031050 | 9,4382E-05 | 3,51123E-08 | 9,4382E-05 | 0,00003000 |
| | 330 | 48,6 | 5,7919753 | 6,1480700 | 0,0025228 | 3,73575E-05 | 3,55095E-09 | 3,73575E-05 | 0,00001000 |
| | 360 | 48,58 | 5,7531906 | 6,1043877 | 0,0021347 | 1,47866E-05 | 3,35982E-10 | 1,47866E-05 | 0,00000667 |
| | 390 | 48,55 | 5,6949537 | 6,0388642 | 0,0015525 | 5,8527E-06 | 2,98575E-11 | 5,8527E-06 | 0,00001000 |
| 420 | 48,53 | 5,6560890 | 5,9951818 | 0,0011644 | 2,31657E-06 | 2,50041E-12 | 2,31657E-06 | 0,00000667 | |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|-------------|-------------|-------------|------------|
| 450 | 48,5 | 5,5977320 | 5,9296583 | 0,0005822 | 9,16925E-07 | 1,9791E-13 | 9,16925E-07 | 0,00001000 |
| 480 | 48,48 | 5,5587871 | 5,8859760 | 0,0001941 | 3,6293E-07 | 1,48442E-14 | 3,6293E-07 | 0,00000667 |
| 510 | 48,48 | 5,5587871 | 5,8859760 | 0,0001941 | 1,43652E-07 | 1,05752E-15 | 1,43652E-07 | 0,00000000 |
| 540 | 48,47 | 5,5393027 | 5,8641348 | 0 | 5,68592E-08 | 7,17097E-17 | 5,68592E-08 | 0,00000333 |
| 570 | 48,47 | 5,5393027 | 5,8641348 | 0 | 2,25055E-08 | 4,6371E-18 | 2,25055E-08 | 0 |
| 600 | 48,47 | 5,5393027 | 5,8641348 | 0 | 8,90796E-09 | 2,86447E-19 | 8,90796E-09 | 0 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 2 Suhu 60° C Ulangan 2 | 0 | 100 | 54,1844000 | 118,2662674 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 70,98 | 35,4528036 | 54,9253966 | 0,4370514 | 0,393040367 | 0,434346519 | 0,393040367 | 0,00967333 |
| | 60 | 54,29 | 15,6095045 | 18,4967566 | 0,1132881 | 0,15448073 | 0,122177341 | 0,15448073 | 0,00556333 |
| | 90 | 50,3 | 8,9153082 | 9,7879325 | 0,0358875 | 0,060717163 | 0,027032222 | 0,060717163 | 0,00133000 |
| | 120 | 49,39 | 7,2370925 | 7,8017095 | 0,0182347 | 0,023864296 | 0,004992484 | 0,023864296 | 0,00030333 |
| | 150 | 49,19 | 6,8599309 | 7,3651769 | 0,0143550 | 0,009379632 | 0,000794842 | 0,009379632 | 0,00006667 |
| | 180 | 49,01 | 6,5178535 | 6,9722976 | 0,0108632 | 0,003686574 | 0,000111377 | 0,003686574 | 0,00006000 |
| | 210 | 48,85 | 6,2116684 | 6,6230716 | 0,0077595 | 0,001448972 | 1,39399E-05 | 0,001448972 | 0,00005333 |
| | 240 | 48,72 | 5,9614122 | 6,3393255 | 0,0052376 | 0,000569505 | 1,57576E-06 | 0,000569505 | 0,00004333 |
| | 270 | 48,66 | 5,8454583 | 6,2083657 | 0,0040737 | 0,000223838 | 1,6228E-07 | 0,000223838 | 0,00002000 |
| 300 | 48,61 | 5,7486114 | 6,0992326 | 0,0031038 | 8,79775E-05 | 1,53339E-08 | 8,79775E-05 | 0,00001667 | |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|-------------|-------------|-------------|------------|
| 330 | 48,57 | 5,6709903 | 6,0119261 | 0,0023278 | 3,45787E-05 | 1,33719E-09 | 3,45787E-05 | 0,00001333 |
| 360 | 48,53 | 5,5932413 | 5,9246196 | 0,0015519 | 1,35908E-05 | 1,08151E-10 | 1,35908E-05 | 0,00001333 |
| 390 | 48,5 | 5,5348454 | 5,8591397 | 0,0009699 | 5,34174E-06 | 8,14735E-12 | 5,34174E-06 | 0,00001000 |
| 420 | 48,48 | 5,4958746 | 5,8154864 | 0,0005820 | 2,09952E-06 | 5,73788E-13 | 2,09952E-06 | 0,00000667 |
| 450 | 48,47 | 5,4763771 | 5,7936598 | 0,0003880 | 8,25196E-07 | 3,79007E-14 | 8,25196E-07 | 0,00000333 |
| 480 | 48,46 | 5,4568716 | 5,7718332 | 0,0001940 | 3,24336E-07 | 2,35481E-15 | 3,24336E-07 | 0,00000333 |
| 510 | 48,45 | 5,4373581 | 5,7500065 | 0 | 1,27477E-07 | 1,37974E-16 | 1,27477E-07 | 0,00000333 |
| 540 | 48,45 | 5,4373581 | 5,7500065 | 0 | 5,01036E-08 | 7,6415E-18 | 5,01036E-08 | 0 |
| 570 | 48,45 | 5,4373581 | 5,7500065 | 0 | 1,96927E-08 | 4,00882E-19 | 1,96927E-08 | 0 |
| 600 | 48,45 | 5,4373581 | 5,7500065 | 0 | 7,74004E-09 | 1,99592E-20 | 7,74004E-09 | 0 |

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|-------------------------------|---------------|------------------------------|-----------------|-----------------|---------------|-------------|-------------|----------------------|---|
| Tabung 2 Suhu 60° C Ulangan 3 | 0 | 100 | 54,1789000 | 118,2400684 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 71,02 | 35,4814137 | 54,9940966 | 0,4377183 | 0,393688771 | 0,435025447 | 0,39368877 | 0,00966000 |
| | 60 | 54,34 | 15,6770335 | 18,5916532 | 0,1140861 | 0,154990848 | 0,122911141 | 0,154990848 | 0,00556000 |
| | 90 | 50,32 | 8,9405803 | 9,8184024 | 0,0360885 | 0,061018157 | 0,027367955 | 0,061018156 | 0,00134000 |
| | 120 | 49,39 | 7,2259567 | 7,7887698 | 0,0180442 | 0,024022163 | 0,005094665 | 0,024022163 | 0,00031000 |
| | 150 | 49,2 | 6,8676829 | 7,3741137 | 0,0143578 | 0,009457256 | 0,000818658 | 0,009457256 | 0,00006333 |
| | 180 | 49,02 | 6,5257038 | 6,9812815 | 0,0108653 | 0,003723215 | 0,000115921 | 0,003723215 | 0,00006000 |
| | 210 | 48,85 | 6,2004094 | 6,6102734 | 0,0075669 | 0,001465788 | 1,46771E-05 | 0,001465788 | 0,00005667 |

| | | | | | | | | |
|-----|-------|-----------|-----------|-----------|-------------|-------------|-------------|------------|
| 240 | 48,71 | 5,9308150 | 6,3047373 | 0,0048506 | 0,000577064 | 1,68004E-06 | 0,000577064 | 0,00004667 |
| 270 | 48,64 | 5,7954359 | 6,1519693 | 0,0034924 | 0,000227184 | 1,7537E-07 | 0,000227184 | 0,00002333 |
| 300 | 48,6 | 5,7179012 | 6,0646733 | 0,0027163 | 8,94397E-05 | 1,68105E-08 | 8,94397E-05 | 0,00001333 |
| 330 | 48,56 | 5,6402389 | 5,9773772 | 0,0019402 | 3,52114E-05 | 1,4884E-09 | 3,52114E-05 | 0,00001333 |
| 360 | 48,53 | 5,5819081 | 5,9119052 | 0,0013582 | 1,38623E-05 | 1,22321E-10 | 1,38623E-05 | 0,00001000 |
| 390 | 48,51 | 5,5429808 | 5,8682572 | 0,0009701 | 5,45744E-06 | 9,37039E-12 | 5,45744E-06 | 0,00000667 |
| 420 | 48,49 | 5,5040214 | 5,8246092 | 0,0005821 | 2,14853E-06 | 6,71548E-13 | 2,14853E-06 | 0,00000667 |
| 450 | 48,48 | 5,4845297 | 5,8027852 | 0,0003880 | 8,45854E-07 | 4,51709E-14 | 8,45854E-07 | 0,00000333 |
| 480 | 48,47 | 5,4650299 | 5,7809612 | 0,0001940 | 3,33003E-07 | 2,85985E-15 | 3,33003E-07 | 0,00000333 |
| 510 | 48,46 | 5,4455221 | 5,7591372 | 0 | 1,311E-07 | 1,7086E-16 | 1,311E-07 | 0,00000333 |
| 540 | 48,46 | 5,4455221 | 5,7591372 | 0 | 5,16125E-08 | 9,65496E-18 | 5,16125E-08 | 0 |
| 570 | 48,46 | 5,4455221 | 5,7591372 | 0 | 2,03192E-08 | 5,17106E-19 | 2,03192E-08 | 0 |
| 600 | 48,46 | 5,4455221 | 5,7591372 | 0 | 7,99946E-09 | 2,62999E-20 | 7,99946E-09 | 0 |

NILAI RATA-RATA DARI TABUNG 1 DAN 2 SUHU 60° C SELAMA EKSPERIMEN

| Sampel | Waktu (menit) | Penurunan Berat 30 menit (g) | Kadar Air (%bb) | Kadar Air (%bk) | MR Eksperimen | MR Newton | MR Page | MR Pabis & Henderson | Laju Pengeringan (g H ₂ O/g Padatan.menit) |
|------------|---------------|------------------------------|-----------------|-----------------|---------------|-----------|-------------|----------------------|---|
| Suhu 60° C | 0 | 100 | 54,6039667 | 120,2836232 | 1 | 1 | 1 | 1 | 0 |
| | 30 | 76,343 | 40,5369821 | 68,1717985 | 0,5452101 | 0,4524176 | 0,543287486 | 0,45241756 | 0,00788556 |
| | 60 | 55,910 | 18,8050513 | 23,1606302 | 0,1523868 | 0,2046819 | 0,157465498 | 0,204681869 | 0,00681111 |
| | 90 | 49,763 | 8,7761417 | 9,6204682 | 0,0342198 | 0,0926019 | 0,029151977 | 0,092601872 | 0,00204889 |
| | 120 | 48,873 | 7,1148678 | 7,6599763 | 0,0171098 | 0,0418948 | 0,003699274 | 0,041894848 | 0,00029667 |
| | 150 | 48,700 | 6,7842863 | 7,2781488 | 0,0137775 | 0,0189540 | 0,000335855 | 0,018954047 | 0,00005778 |
| | 180 | 48,550 | 6,4962818 | 6,9477233 | 0,0108938 | 0,0085752 | 2,24849E-05 | 0,00857519 | 0,00005000 |

| | | | | | | | | |
|-----|--------|-----------|-----------|-----------|-----------|-------------|-------------|------------|
| 210 | 48,363 | 6,1354344 | 6,5364975 | 0,0073053 | 0,0038796 | 1,13591E-06 | 0,003879592 | 0,00006222 |
| 240 | 48,237 | 5,8889420 | 6,2574824 | 0,0048702 | 0,0017552 | 4,411E-08 | 0,001755209 | 0,00004222 |
| 270 | 48,170 | 5,7586919 | 6,1106294 | 0,0035885 | 0,0007941 | 1,33695E-09 | 0,000794094 | 0,00002222 |
| 300 | 48,123 | 5,6672999 | 6,0078330 | 0,0026913 | 0,0003593 | 3,20392E-11 | 0,000359266 | 0,00001556 |
| 330 | 48,080 | 5,5822708 | 5,9123822 | 0,0018583 | 0,0001625 | 6,13775E-13 | 0,00016254 | 0,00001444 |
| 360 | 48,053 | 5,5298841 | 5,8536345 | 0,0013456 | 0,0000735 | 9,48829E-15 | 7,35367E-05 | 0,00000889 |
| 390 | 48,027 | 5,4774374 | 5,7948868 | 0,0008330 | 0,0000333 | 1,19325E-16 | 3,32697E-05 | 0,00000889 |
| 420 | 48,010 | 5,4446296 | 5,7581675 | 0,0005126 | 0,0000151 | 1,22932E-18 | 1,5052E-05 | 0,00000556 |
| 450 | 47,997 | 5,4183684 | 5,7287855 | 0,0002563 | 0,0000068 | 1,04378E-20 | 6,80991E-06 | 0,00000444 |
| 480 | 47,993 | 5,4117990 | 5,7214400 | 0,0001922 | 0,0000031 | 7,34248E-23 | 3,08097E-06 | 0,00000111 |
| 510 | 47,983 | 5,3920863 | 5,6994117 | 0,0000000 | 0,0000014 | 4,29913E-25 | 1,39391E-06 | 0,00000333 |
| 540 | 47,983 | 5,3920863 | 5,6994117 | 0,0000000 | 0,0000006 | 2,10389E-27 | 6,30641E-07 | 0 |
| 570 | 47,983 | 5,3920863 | 5,6994117 | 0,0000000 | 0,0000003 | 8,63798E-30 | 2,85319E-07 | 0 |
| 600 | 47,983 | 5,3920863 | 5,6994117 | 0,0000000 | 0,0000001 | 2,98575E-32 | 1,29086E-07 | 0 |

4. NILAI KONSTANTA DAN NILAI KESESUAIAN MODEL PENGERINGAN

| Model | Bentuk Exponensial | Sampel (° C) | K | N | A | MSE | RMSE | R ² |
|-------------------|---------------------------|--------------|------------|-------------|-----------|---------|---------|----------------|
| Newton | MR=exp(-kt) | 40 | 0,01245841 | | | 0,00055 | 0,02346 | 0,99553 |
| | | 50 | 0,01370689 | | | 0,00006 | 0,00796 | 0,99319 |
| | | 60 | 0,01370689 | | | 0,00046 | 0,02144 | 0,98740 |
| Page | MR=exp(-kt ⁿ) | 40 | 0,03103171 | 1,381650099 | | 0,00054 | 0,02315 | 0,99900 |
| | | 50 | 0,01228020 | 1,287802967 | | 0,00012 | 0,01111 | 0,99857 |
| | | 60 | 0,00595206 | 1,599248025 | | 0,00054 | 0,02323 | 0,99963 |
| Henderson & Pabis | MR = a exp(-kt) | 40 | 0,00912820 | | 1 | 0,00091 | 0,03014 | 0,99231 |
| | | 50 | 0,01348450 | | 0,9988487 | 0,00004 | 0,00613 | 0,99857 |
| | | 60 | 0,01802843 | | 1 | 0,00086 | 0,02929 | 0,98740 |

5. KADAR AIR SIFAT ISOTERMIS TEPUNG

Nilai Kadar Air Basis Kering (Kabk %) Suhu 30° C

| Perlakuan Suhu Pengeringan | Ulangan | Larutan | | | | | |
|----------------------------|---------|--------------------------------|---|--|---|--------------------------------|------------------------------|
| | | NaOH (Rh 17 %) (Aw 0,17) | MgCl ₂ (Rh 32 %) (Aw 0,32) | K ₂ CO ₃ (Rh 42 %) (Aw 0,42) | NaNO ₂ (Rh 64 %) (Aw 0,64) | NaCl (Rh 75 %) (Aw 0,75) | KCL (Rh 80 %) (Aw 0,8) |
| SUHU 40° C | T1U1 | 5,529728 | 8,937878 | 10,03726 | 12,76636 | 15,47947 | 17,46491 |
| | T1U2 | 5,536459 | 8,970073 | 10,03936 | 12,76777 | 15,48585 | 17,53319 |
| | T1U3 | 5,528501 | 8,94452 | 10,03649 | 12,79988 | 15,47184 | 17,53774 |
| | T2U1 | 5,673957 | 9,203133 | 10,25184 | 13,05746 | 15,87843 | 17,68334 |
| | T2U2 | 5,642501 | 9,233077 | 10,21668 | 12,87628 | 15,97494 | 17,75854 |
| | T2U3 | 5,508338 | 9,379831 | 10,18036 | 12,94524 | 16,00666 | 17,70347 |
| SUHU 50° C | T1U1 | 1,247249 | 4,74202 | 5,996259 | 7,787838 | 11,02055 | 12,18946 |
| | T1U2 | 1,25062 | 4,733902 | 5,998167 | 7,783676 | 11,00379 | 12,17994 |
| | T1U3 | 1,275762 | 4,728445 | 6,000431 | 7,791558 | 11,06716 | 12,18885 |
| | T2U1 | 1,343785 | 4,844237 | 6,06834 | 7,972366 | 11,33914 | 12,31628 |
| | T2U2 | 1,382069 | 4,797277 | 6,066781 | 7,993781 | 11,38924 | 12,24276 |
| | T2U3 | 1,343602 | 4,917072 | 6,067614 | 8,096577 | 11,16969 | 12,28356 |
| SUHU 60° C | T1U1 | 0,660718 | 3,889082 | 5,209876 | 6,546322 | 10,2163 | 11,43363 |
| | T1U2 | 0,644685 | 3,858528 | 5,186221 | 6,553755 | 10,21486 | 11,4135 |
| | T1U3 | 0,662428 | 3,920593 | 5,182455 | 6,550139 | 10,19863 | 11,46201 |
| | T2U1 | 0,751295 | 3,9974 | 5,29552 | 6,658838 | 10,30018 | 11,60796 |
| | T2U2 | 0,805925 | 3,92921 | 5,352324 | 6,725742 | 10,32968 | 11,52215 |
| | T2U3 | 0,739339 | 3,769059 | 5,331145 | 6,690623 | 10,31944 | 11,59962 |

| | | | | | | | |
|---------|----|----------|----------|----------|----------|----------|----------|
| KONTROL | U1 | 2,028858 | 6,741573 | 8,326004 | 10,64076 | 12,48107 | 14,58218 |
| | U2 | 2,018549 | 6,693174 | 8,204562 | 10,64741 | 12,51122 | 14,51511 |
| | U3 | 2,001244 | 6,755965 | 8,30693 | 10,74777 | 12,60034 | 14,68718 |

Nilai Rata-rata Kadar Air Basis Kering (Kabk %) Suhu 40°C

| Perlakuan Suhu Pengerangan | Ulangan | Larutan | | | | | |
|----------------------------|---------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------|------------------------------|
| | | NaOH (Rh 17 %) (Aw 0,17) | MgCl2 (Rh 32 %) (Aw 0,32) | K2CO3 (Rh 42 %) (Aw 0,42) | NaNO2 (Rh 64 %) (Aw 0,64) | NaCl (Rh 75 %) (Aw 0,75) | KCL (Rh 80 %) (Aw 0,8) |
| SUHU 40° C | T1U1 | 4,231222 | 7,841188 | 9,013644 | 9,818406 | 13,31129 | 16,55515 |
| | T1U2 | 4,205153 | 7,805561 | 9,002225 | 9,818933 | 13,41491 | 16,57949 |
| | T1U3 | 4,200403 | 7,809275 | 8,936765 | 9,854818 | 13,55916 | 16,79509 |
| | T2U1 | 4,341364 | 7,879221 | 9,134401 | 10,18253 | 13,68919 | 17,56241 |
| | T2U2 | 4,375114 | 7,922322 | 9,074103 | 10,18453 | 13,78314 | 17,34657 |
| | T2U3 | 4,305656 | 7,941464 | 9,054271 | 10,21894 | 13,7437 | 17,45408 |
| SUHU 50° C | T1U1 | 0,898595 | 3,497427 | 4,984123 | 5,96823 | 9,333183 | 11,98577 |
| | T1U2 | 0,914859 | 3,491758 | 4,880197 | 6,066781 | 9,416446 | 11,84029 |
| | T1U3 | 0,914044 | 3,501194 | 4,961303 | 6,243916 | 9,585377 | 11,55725 |
| | T2U1 | 1,016164 | 3,641865 | 5,050122 | 6,313764 | 9,706342 | 12,30293 |
| | T2U2 | 1,072564 | 3,629618 | 5,090736 | 6,348122 | 9,709659 | 12,1756 |
| | T2U3 | 1,06383 | 3,674796 | 5,032414 | 6,348584 | 9,699728 | 12,00568 |
| SUHU 60° C | T1U1 | 0,503207 | 3,05808 | 4,274006 | 5,541173 | 8,583033 | 10,48348 |

| | | | | | | | |
|---------|------|----------|----------|----------|----------|----------|----------|
| | T1U2 | 0,518637 | 3,055626 | 4,262729 | 5,540436 | 8,571847 | 10,29089 |
| | T1U3 | 0,525617 | 3,058365 | 4,236573 | 5,579293 | 8,498227 | 10,33556 |
| | T2U1 | 0,61188 | 3,283203 | 4,567877 | 5,645773 | 8,770158 | 10,96004 |
| | T2U2 | 0,623271 | 3,25603 | 4,509171 | 5,610006 | 8,720723 | 10,88212 |
| | T2U3 | 0,700336 | 3,265586 | 4,508418 | 5,647367 | 8,788315 | 11,30069 |
| KONTROL | U1 | 1,327514 | 5,915268 | 7,309656 | 9,326047 | 11,08565 | 13,17274 |
| | U2 | 1,337949 | 5,946584 | 7,373539 | 9,339408 | 11,11987 | 13,24161 |
| | U3 | 1,335625 | 5,906758 | 7,334269 | 9,40059 | 11,19975 | 13,15722 |

Nilai Rata-rata Kadar Air Basis Basah (Kabb %) Suhu 30°C

| Perlakuan Suhu Pengerinan | Ulangan | Larutan | | | | | |
|---------------------------|---------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------|------------------------------|
| | | NaOH (Rh 17 %) (Aw 0,17) | MgCl2 (Rh 32 %) (Aw 0,32) | K2CO3 (Rh 42 %) (Aw 0,42) | NaNO2 (Rh 64 %) (Aw 0,64) | NaCl (Rh 75 %) (Aw 0,75) | KCL (Rh 80 %) (Aw 0,8) |
| SUHU 40° C | T1U1 | 5,239972 | 8,204564 | 9,121693 | 11,32107 | 13,40452 | 14,8682 |
| | T1U2 | 5,246015 | 8,231685 | 9,123427 | 11,32218 | 13,40931 | 14,91765 |
| | T1U3 | 5,23887 | 8,21016 | 9,12106 | 11,34742 | 13,3988 | 14,92094 |
| | T2U1 | 5,369305 | 8,427536 | 9,298566 | 11,5494 | 13,70266 | 15,0262 |
| | T2U2 | 5,341128 | 8,452639 | 9,269635 | 11,40743 | 13,77448 | 15,08047 |
| | T2U3 | 5,220761 | 8,575467 | 9,239721 | 11,46152 | 13,79805 | 15,04074 |
| SUHU 50° C | T1U1 | 1,231884 | 4,527333 | 5,657048 | 7,225155 | 9,926582 | 10,86506 |
| | T1U2 | 1,235172 | 4,519933 | 5,658746 | 7,221572 | 9,912989 | 10,8575 |
| | T1U3 | 1,259691 | 4,514958 | 5,660761 | 7,228357 | 9,964386 | 10,86458 |
| | T2U1 | 1,325967 | 4,620414 | 5,72116 | 7,38371 | 10,18433 | 10,96571 |

| | | | | | | | |
|------------|------|----------|----------|----------|----------|----------|----------|
| | T2U2 | 1,363229 | 4,577673 | 5,719775 | 7,402075 | 10,22472 | 10,9074 |
| | T2U3 | 1,325789 | 4,686627 | 5,720515 | 7,490133 | 10,04743 | 10,93977 |
| SUHU 60° C | T1U1 | 0,656381 | 3,743494 | 5,039805 | 6,144109 | 9,269315 | 10,26048 |
| | T1U2 | 0,640555 | 3,715177 | 5,018018 | 6,150656 | 9,268132 | 10,24427 |
| | T1U3 | 0,658069 | 3,772682 | 5,014548 | 6,147471 | 9,254768 | 10,28333 |
| | T2U1 | 0,745693 | 3,84375 | 5,118605 | 6,243119 | 9,338319 | 10,40066 |
| | T2U2 | 0,799482 | 3,78066 | 5,170797 | 6,301893 | 9,362559 | 10,33171 |
| | T2U3 | 0,733913 | 3,632161 | 5,151344 | 6,271051 | 9,354141 | 10,39396 |
| KONTROL | U1 | 1,988514 | 6,315789 | 7,686062 | 9,617397 | 11,09615 | 12,72639 |
| | U2 | 1,97861 | 6,273292 | 7,582455 | 9,622824 | 11,11997 | 12,67528 |
| | U3 | 1,96198 | 6,32842 | 7,669805 | 9,704724 | 11,19032 | 12,8063 |

Nilai Rata-rata Kadar Air Basis Basah (Kabb %) Suhu 40° C

| Perlakuan Suhu Pengeringan | Ulangan | Larutan | | | | | |
|----------------------------|---------|-------------------|--------------------------------|---|--------------------------------|-------------------|------------------|
| | | NaOH (Rh 17 %) | MgCl ₂ (Rh 32 %) | K ₂ CO ₃ (Rh 42 %) | NaNO ₂ (Rh 64 %) | NaCl (Rh 75 %) | KCL (Rh 80 %) |
| | | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) |
| SUHU 40° C | T1U1 | 4,059458 | 7,271051 | 8,268363 | 8,940584 | 11,74754 | 14,2037 |
| | T1U2 | 4,035456 | 7,240407 | 8,258754 | 8,941021 | 11,82817 | 14,22162 |
| | T1U3 | 4,031082 | 7,243602 | 8,203627 | 8,970766 | 11,94017 | 14,37996 |
| | T2U1 | 4,160732 | 7,303743 | 8,369864 | 9,241507 | 12,04089 | 14,9388 |

| | | | | | | | |
|------------|------|----------|----------|----------|----------|----------|----------|
| | T2U2 | 4,191722 | 7,340763 | 8,319209 | 9,243158 | 12,11352 | 14,78234 |
| | T2U3 | 4,127922 | 7,357195 | 8,302537 | 9,27149 | 12,08304 | 14,86034 |
| SUHU 50° C | T1U1 | 0,890592 | 3,379241 | 4,747502 | 5,632094 | 8,53646 | 10,70294 |
| | T1U2 | 0,906565 | 3,373948 | 4,653116 | 5,719775 | 8,606061 | 10,58678 |
| | T1U3 | 0,905765 | 3,382757 | 4,726792 | 5,876963 | 8,746949 | 10,35993 |
| | T2U1 | 1,005942 | 3,513894 | 4,807346 | 5,938802 | 8,847567 | 10,95513 |
| | T2U2 | 1,061182 | 3,502491 | 4,844134 | 5,96919 | 8,850323 | 10,85405 |
| | T2U3 | 1,052632 | 3,544541 | 4,791296 | 5,969599 | 8,842071 | 10,71882 |
| SUHU 60° C | T1U1 | 0,500687 | 2,967337 | 4,170213 | 5,250248 | 7,90458 | 9,488734 |
| | T1U2 | 0,515961 | 2,965025 | 4,159639 | 5,249586 | 7,895091 | 9,330683 |
| | T1U3 | 0,522869 | 2,967605 | 4,135103 | 5,284457 | 7,832595 | 9,367385 |
| | T2U1 | 0,608159 | 3,178836 | 4,444965 | 5,344059 | 8,063019 | 9,877465 |
| | T2U2 | 0,619411 | 3,153356 | 4,390203 | 5,312003 | 8,021215 | 9,81413 |
| | T2U3 | 0,695465 | 3,162318 | 4,3895 | 5,345487 | 8,078363 | 10,1533 |
| KONTROL | U1 | 1,310122 | 5,584906 | 6,811741 | 8,53049 | 9,828912 | 11,6395 |
| | U2 | 1,320285 | 5,612813 | 6,867185 | 8,541667 | 9,857664 | 11,69324 |
| | U3 | 1,318021 | 5,57732 | 6,83311 | 8,592814 | 9,924703 | 11,62738 |

6. MODEL SORPSI ISOTERMIS

| Model Henderson | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|-------------|----------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 30° C | | | | | | | | | | |
| Perlakuan Suhu Pengeringan (° C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| 40 | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | 0,235866 | 13,38548 | 0,496500072 | 0,985501 |

| | | | | | | | | | | |
|---------|-------------|----------|----------|----------|----------|----------|----------|----------|-------------|----------|
| 50 | 2,318776962 | 4,054297 | 5,285743 | 8,568153 | 10,83175 | 12,14744 | 0,457736 | 8,42834 | 0,768081494 | 0,967244 |
| 60 | 1,696411336 | 3,219522 | 4,363984 | 7,593541 | 9,935596 | 11,33143 | 0,565572 | 7,451621 | 0,880777828 | 0,958282 |
| KONTROL | 3,701334874 | 5,853406 | 7,276105 | 10,81388 | 13,10682 | 14,39914 | 0,833812 | 10,66892 | 0,630054379 | 0,951552 |

| Model Henderson | | | | | | | | | | |
|--|-------------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|-------------|----------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 40° C | | | | | | | | | | |
| Perlakuan Suhu Pengeringan (° C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | | | | |
| 40 | 4,565828678 | 6,857306 | 8,317688 | 11,82241 | 14,0222 | 15,2425 | 1,295821 | 11,68167 | 0,559099704 | 0,918325 |
| 50 | 1,487399412 | 2,936254 | 4,055137 | 7,30054 | 9,711394 | 11,1656 | 0,559912 | 7,155792 | 0,934922695 | 0,957305 |
| 60 | 1,250011202 | 2,521205 | 3,517613 | 6,451519 | 8,659691 | 10,00039 | 0,388155 | 6,319606 | 0,964449168 | 0,964423 |
| KONTROL | 3,088240671 | 5,008136 | 6,300103 | 9,568994 | 11,72091 | 12,94315 | 0,907469 | 9,433735 | 0,66460252 | 0,939428 |

| Model Oswin | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|----------|-------------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 30° C | | | | | | | | | | |
| Perlakuan Suhu Pengeringan (° C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | | | | |
| 40 | 6,248875 | 8,31328 | 9,638372 | 13,11754 | 15,69753 | 17,32624 | 0,212994 | 10,76729 | 0,343152 | 0,986951022 |
| 50 | 2,677352 | 4,115933 | 5,143198 | 8,182335 | 10,72392 | 12,44348 | 0,574177 | 6,077154 | 0,516961 | 0,959224544 |
| 60 | 2,02241 | 3,299904 | 4,252748 | 7,215133 | 9,817316 | 11,62861 | 0,621988 | 5,142501 | 0,588568 | 0,954525621 |

| | | | | | | | | | | |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| KONTROL | 4,122886 | 5,885518 | 7,077453 | 10,39388 | 13,00207 | 14,70525 | 1,151838 | 8,125646 | 0,427889 | 0,932950927 |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|

| Model Oswin | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|----------|-------------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 40° C | | | | | | | | | | |
| Perlakuan Suhu Pengerinan (°C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | | | | |
| 40 | 4,926424 | 6,809701 | 8,05329 | 11,42279 | 14,00262 | 15,66145 | 1,03716 | 9,131182 | 0,389172 | 0,934562318 |
| 50 | 1,793256 | 3,016254 | 3,948863 | 6,922953 | 9,601492 | 11,49308 | 0,467129 | 4,831656 | 0,625088 | 0,964454294 |
| 60 | 1,528031 | 2,605297 | 3,434931 | 6,110926 | 8,548015 | 10,28024 | 0,370771 | 4,225043 | 0,641418 | 0,966336915 |
| KONTROL | 3,464743 | 5,041193 | 6,122306 | 9,17813 | 11,61975 | 13,22878 | 1,177866 | 7,081223 | 0,450805 | 0,921202367 |

| Model Chung Pfost | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|----------|-------------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 30° C | | | | | | | | | | |
| Perlakuan Suhu Pengerinan (°C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | | | | |
| 40 | 6,829633 | 8,844133 | 10,08814 | 13,1205 | 15,12384 | 16,28285 | 0,575511 | 9,43966 | -4,56231 | 0,9876048 |
| 50 | 2,68025 | 4,52997 | 5,672223 | 8,456542 | 10,29601 | 11,36022 | 0,640048 | 5,076785 | -4,18913 | 0,975347189 |
| 60 | 2,076645 | 3,827464 | 4,908644 | 7,544091 | 9,285212 | 10,29252 | 0,875765 | 4,345042 | -3,96514 | 0,966430339 |

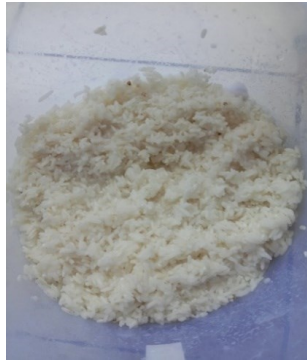
| | | | | | | | | | | |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| KONTROL | 2,914607 | 5,481061 | 7,065918 | 10,92911 | 13,48135 | 14,95792 | 0,822914 | 6,239757 | -5,81234 | 0,956977389 |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|

| Model Chung Pfof | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|----------|-------------|
| Nilai Kadar Air Basis Kering (Kabk %) Suhu 40° C | | | | | | | | | | |
| Perlakuan Suhu Pengeringan (° C) | Larutan | | | | | | MSE | Nilai Konstanta | | R2 |
| | NaOH | MgCl2 | K2CO3 | NaNO2 | NaCl | KCL | | a | b | |
| | (Rh 17 %) | (Rh 32 %) | (Rh 42 %) | (Rh 64 %) | (Rh 75 %) | (Rh 80 %) | | | | |
| | (Aw 0,17) | (Aw 0,32) | (Aw 0,42) | (Aw 0,64) | (Aw 0,75) | (Aw 0,8) | | | | |
| 40 | 5,320249 | 7,313084 | 8,543715 | 11,54346 | 13,52525 | 14,6718 | 1,417789 | 7,902206 | -4,51324 | 0,924268147 |
| 50 | 1,764363 | 3,55775 | 4,665216 | 7,364738 | 9,14819 | 10,17999 | 0,853922 | 4,087911 | -4,06155 | 0,955131029 |
| 60 | 1,295788 | 2,981739 | 4,022861 | 6,560665 | 8,237277 | 9,207264 | 0,522285 | 3,480141 | -3,81824 | 0,966801808 |
| KONTROL | 2,423121 | 4,741855 | 6,173738 | 9,664048 | 11,96994 | 13,30399 | 0,790829 | 5,42732 | -5,25132 | 0,948277546 |

8. DOKUMENTASI



(a)



(b)



(c)



(d)



(e)



(f)

Gambar 9. Penimbangan ragi NKL (a); nasi stengah matang setelah pengukusan 15 menit (b); penaburan ragi (c); proses fermentasi (d); proses pemerasan pongasi (e); limbah pongasi (f).



(a)



(b)



(c)



(d)



(g)



(e)



(h)



(f)

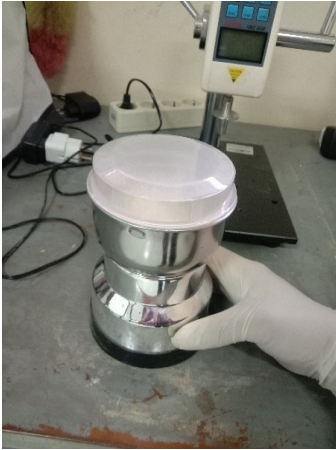


(i)



(j)

Gambar 10. Pengukuran kecepatan udara dengan anemometer (a); pengaturan suhu *batch dryer* (b); penyusunan tabung (c); posisi tabung (d); penimbangan sampel basah (e); penimbangan sampel kering (f); sampel kering suhu 40°C (g); sampel kering suhu 50°C (h); sampel kering suhu 60°C (i); proses pengovenan (j).



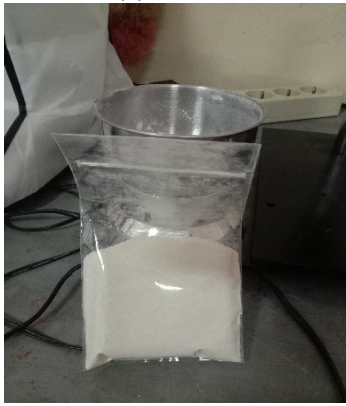
(a)



(b)



(c)



(d)



(e)



(f)



(g)



(h)



(i)



(j)



(k)



(l)

Gambar 11. Proses penepungan (*grinding*) (a); tepung hasil *grinding* (b); proses pengayakan (c); tepung halus ukuran 80 mesh (d); menimbang wadah kosong (e); menimbang sampel(f); menempatkan sampel kedalam desikator (g); pengujian sifat isothermis suhu ruang (30°C) (h); pengujian sifat isothermis suhu 40°C (i); ruang pengujian sifat isothermis suhu 40°C (j); penimbangan sampel setelah pengujian (k); pengovenan (l).

RIWAYAT HIDUP

A. Data Pribadi

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B. Riwayat Pendidikan

1. SMAN 6 Konawe Selatan (2014-2017)
2. Universitas Halu Oleo (2018-2022)
3. Universitas Hasanuddin (2023-2024)

C. Karya Ilmiah

Canrea Journal dengan Judul “ *Drying Characteristic and Sorption Isotherm of Solid Waste From Rice Fermentation*”.