

BAB 6

KESIMPULAN

Dari analisis yang telah dilakukan dengan melakukan metode simulasi dan metode analitis, dapat disimpulkan bahwa pemesanan ketika ROP 200 sak dan dengan jumlah pemesanan (Q) 900 sak untuk tiap kali melakukan pemesanan adalah kebijakan pemesanan yang memiliki total biaya persediaan minimum.

Sehingga dapat disimpulkan bahwa:

1. Saat pemesanan bahan baku yang tepat dilakukan adalah ketika persediaan di gudang lebih sedikit dari 200 sak
2. Jumlah pemesanan bahan baku yang meminimumkan biaya persediaan adalah pemesanan sebanyak 900 sak untuk tiap kali melakukan pemesanan.

Selisih total biaya persediaan skenario tersebut dengan hasil simulasi sistem nyatanya adalah sebesar Rp 27.125.630, yang berarti dengan menerapkan skenario tersebut memungkinkan perusahaan untuk menghemat sebesar Rp 27.125.630 dari total biaya persediaan per tahun.

DAFTAR PUSTAKA

- Abuizam, R. (2011). Optimization Of (s , S) Periodic Review Inventory Model With Uncertain Demand and Lead Time Using Simulation. *International Journal of Management and Information Systems*, 15(1), 67.
- Ahyari, A. (1985). *Management Produksi 2: Pengendalian Produksi* (Edisi ke 3.). Yogyakarta: BPFE-YOGYAKARTA.
- Baroto, T. (2002). *Perencanaan dan Pengendalian Produksi*. Jakarta: Ghalia Indonesia.
- Brady, T. F. (2007). Predictive Inventory Optimization. *Industrial Engineering Research Conference*, 304–310.
- Dudley, L., & Lasserre, P. (1989). Information as a substitute for inventories. *European Economic Review*, 33, 67–88.
- Ernawati, Y., & Surnasih. (2008). Sistem Pengendalian Persediaan Model Probabilistik dengan “Back Order Policy.” *Jurnal Matematika*, 11(2), 87–93.
- Eroglu, C., & Hofer, C. (2011). Lean, Leaner, Too Lean? The Inventory-Performance Link Revisited. *Journal of Operations Management*, 29, 356–369.
- Fullerton, R. R., McWatters, C. S., & Fawson, C. (2003). An Examination of the Relationship between JIT and Financial Performance. *Journal of Operations Management*, 21, 383–404.
- Hartini, S., & Larasati, I. (2009). Pendekatan dynamic inventory dengan mempertimbangkan ketidakpastian permintaan, yield, dan leadtime. *J@TI UNZIP*, IV(3), 202–211.
- Henmaidi, & Heryseptemberiza. (2007). Evaluasi dan Penentuan Kebijakan Persediaan Bahan Baku Kantong Semen Tipe Pasted pada PT Semen Padang. *Jurnal Optimasi Sistem Industri*, 6(2), 75–86.
- Kelton, W. D., Sadowski, R. P., & Swets, N. B. (2010). *Simulation With Arena* (5th editio.). Singapore: McGraw-Hill.
- Koumanakos, D. P. (2008). The effect of inventory management on firm performance. *International Journal of Productivity and Performance Management*, 57(5), 355–369.
- Law, A. M., & Kelton, W. D. (2000). *Simulation Modeling and Analysis* (3rd ed.). Singapore: McGraw-Hill.
- Milgrom, P., & Roberts, J. (1988). Communication and inventories substitutes in organizing production. *Scandinavian Journal Economics*, 90, 275–89.

- Namit, K., & Chen, J. (1999). Solutions to the $\langle Q, r \rangle$ inventory model for gamma lead-time demand. *International Journal of Physical Distribution & Logistics Management*, 29(2), 138–151.
- Pawitan, G., & Paramasatya, A. (2008). Aplikasi Analisis Pareto Dalam Pengendalian Inventori Bahan Baku Pada Bisnis Restoran. *Jurnal Administrasi Bisnis*, 4(1), 80–96.
- Sahari, S., Tinggi, M., & Kadri, N. (2012). Inventory Management in Malaysian Construction Firms: Impact on Performance. *SIU Journal of Management*, 2(1), 59–72.
- Saptadi, S., Pritasari, A., & Adi, P. (2010). Model Persediaan Terintegrasi untuk Perishable Product dalam Supply Chain Multi-Eselon (Studi Kasus di Tika Bakery). *J@TI Undip*, V(1), 67–76.
- Shah, R., & Shin, H. (2007). Relationships among information technology, inventory, and profitability: an investigation of level invariance using sector level data. *Journal of Operations Management*, 25(4), 768–84.
- Siswanto. (1985). *Persediaan, Model dan Analisis*. Yogyakarta: Andi Offset.
- Sutarman. (2003). *Perencanaan Persediaan Bahan Baku dengan Model Backorder*. FTI Universitas Pasundan Bandung.
- Tersine, R. J. (1994). *Principles of Inventory and Materials Management* (4th ed.). London: Prentice-Hall International.
- Waters, D. (2003). *Inventory Control and Management* (2nd ed.). England: John Wiley & Sons.

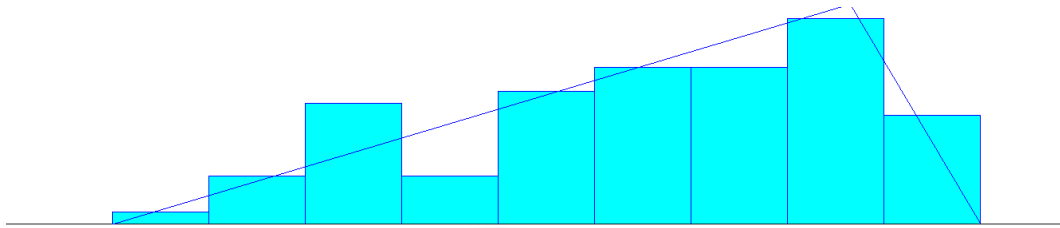
Lampiran 1: Contoh Data Permintaan Roti (Januari 2012)

| Bulan | Tanggal | Hari | Nenas Bulat | Sarikaya | Coklat Bulat | Mentega Meses | Kelapa | Keju | Susu Keju | Kapucino | Nenas Panjang | Pandan | Vanila | Panjang | Durian | Tawar Kering | Koko 500 | Total SAK | |
|----------------|---------|--------|-------------|----------|--------------|---------------|--------|------|-----------|----------|---------------|--------|--------|---------|--------|--------------|----------|-----------|----|
| Januari 2012 | 1 | Minggu | | | | | | | | | | | | | | | | 0 | |
| | 2 | Senin | 608 | 1680 | 2280 | 4328 | 1224 | 6720 | 3456 | 8340 | 1620 | 18524 | 1106 | 7504 | | | 5544 | 51 | |
| | 3 | Selasa | 1048 | 3280 | 3352 | 5960 | 1152 | 4552 | 3444 | 5652 | 2280 | 21098 | | 3108 | | | 7992 | 50 | |
| | 4 | Rabu | 544 | 3912 | 2544 | | 1240 | 4888 | 1200 | 8508 | 1200 | 24234 | | 5460 | | | 5976 | 48 | |
| | 5 | Kamis | | 1184 | 1032 | 3600 | | 3328 | 1188 | 8748 | 2700 | 22260 | | 11886 | | | | 48 | |
| | 6 | Jumat | | 2272 | 1168 | 1824 | 1200 | | 3492 | 4308 | 3576 | 22246 | 1680 | 5348 | | | 726 | 7488 | 46 |
| | 7 | Sabtu | | 1136 | 1144 | | 1168 | 2160 | | 1176 | | 5838 | | | | 1212 | 486 | | 14 |
| | 8 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 9 | Senin | 1320 | 1820 | 2400 | 4360 | 1144 | 2640 | 2196 | 11820 | 4596 | 18396 | 1064 | 8440 | 1188 | | 5544 | 55 | |
| | 10 | Selasa | 1168 | 3280 | 1160 | 5752 | 1296 | 5648 | 2364 | 5736 | 3252 | 19614 | | 3178 | 1176 | | 5112 | 48 | |
| | 11 | Rabu | | 4680 | 4840 | 3152 | 1272 | 5128 | 1656 | 5964 | 18144 | 21310 | | 4032 | 3964 | | 569 | 5400 | 50 |
| | 12 | Kamis | | | 1192 | 1216 | | 1200 | 1044 | 10784 | 1236 | 23310 | 1442 | 4718 | 13658 | | 456 | 2772 | 54 |
| | 13 | Jumat | | 1088 | 2440 | 4280 | 1176 | 3256 | 2340 | 3792 | 2508 | 17068 | | 6650 | | | 5256 | 40 | |
| | 14 | Sabtu | | 1000 | 1136 | | 1256 | 2208 | 1188 | 3528 | 1620 | 7042 | | | | 592 | | | 19 |
| | 15 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 16 | Senin | 544 | 1928 | 2360 | 1864 | 1248 | 4296 | 1488 | 9780 | 1116 | 14168 | 924 | 6874 | 2400 | | 719 | 4824 | 47 |
| | 17 | Selasa | 984 | 3096 | 992 | 6056 | 1376 | 8592 | 2088 | 4332 | 1116 | 17766 | | 4116 | | | 488 | 4860 | 47 |
| | 18 | Rabu | 488 | 2880 | 3040 | 1104 | 1400 | 4424 | 2304 | 6864 | 1164 | 20664 | | 5558 | 2448 | | 717 | 5076 | 50 |
| | 19 | Kamis | | | 1208 | 2040 | | | 1056 | 12912 | 1776 | 15176 | 1092 | | 10380 | | | | 39 |
| | 20 | Jumat | | 1104 | 2520 | 1496 | | 2048 | 1908 | | 1644 | 8946 | | 3906 | | | 766 | 3420 | 25 |
| | 21 | Sabtu | | | 976 | | 1352 | 2296 | | 408 | | 7182 | | | 1488 | | 776 | | 15 |
| | 22 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 23 | Senin | | | | | | | | | | | | | | | | | 0 |
| | 24 | Selasa | 1648 | 2048 | 2384 | 6496 | 1296 | 8360 | 2748 | 7656 | 840 | 21574 | 882 | 6174 | 1152 | | 6048 | 56 | |
| | 25 | Rabu | 544 | 5088 | 3112 | 2920 | 1072 | 3176 | | 8352 | 960 | 21994 | | 6454 | 936 | | 715 | 5256 | 52 |
| | 26 | Kamis | | 1720 | 1056 | 1056 | | 2048 | 3204 | 12180 | 1008 | 24206 | 938 | 6902 | 2304 | | 737 | 2486 | 52 |
| | 27 | Jumat | | 2224 | 3624 | 992 | 1352 | 2672 | 1284 | 7908 | 2124 | 25550 | | 5012 | 2340 | | | 7236 | 50 |
| | 28 | Sabtu | | 1288 | | 3328 | 1272 | 2120 | 540 | 1080 | 1068 | 6988 | | 4200 | 1800 | | 742 | | 23 |
| | 29 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 30 | Senin | | 1440 | 2856 | 3104 | 1720 | 9408 | 1116 | 13044 | 1008 | 19468 | 912 | 10704 | 1128 | | 736 | 4680 | 61 |
| | 31 | Selasa | | 1080 | 2080 | 5600 | 1512 | 3584 | 2220 | 5550 | 1140 | 17388 | | 4172 | | | 7416 | 44 | |
| 1082.34 | | | | | | | | | | | | | | | | | | | |

Lampiran 2: Contoh Data Permintaan Roti (Agustus 2012)

| Bulan | Tanggal | Hari | Nenas Bulat | Sarikaya | Coklat Bulat | Mentega Mese | Kelapa | Keju | Susu Keju | Kapucino | Nenas Panjang | Pandan | Vanila | Panjang | Durian | Roti Manis | Tawar Kering | Total Sak | |
|--------------|---------|--------|-------------|----------|--------------|--------------|--------|------|-----------|----------|---------------|--------|--------|---------|--------|------------|--------------|-----------|---------|
| Agustus 2012 | 1 | Rabu | | 1458 | 780 | 1626 | 1506 | 2166 | 1150 | 5450 | | 17390 | | 4530 | | 2940 | | 31.9926 | |
| | 2 | Kamis | | 528 | 1050 | 972 | | 1062 | 1020 | 3060 | | 13528 | 980 | 2580 | | | | 21.0894 | |
| | 3 | Jumat | | | | 960 | | | 490 | 4130 | 540 | 10790 | 920 | 7150 | 1230 | 2940 | 598 | 26.1047 | |
| | 4 | Sabtu | | 954 | 978 | | | 522 | 460 | | | 9496 | | | | 1380 | 756 | 14.325 | |
| | 5 | Minggu | | | | | | | | | | | | | | | | 0 | |
| | 6 | Senin | | 510 | 996 | 936 | 3408 | 1428 | 2910 | 360 | 5130 | 440 | 15790 | 520 | 5580 | 440 | 1260 | 246 | 34.3067 |
| | 7 | Selasa | | 486 | 492 | | 2160 | 708 | 2046 | | 1530 | | 11820 | | 1300 | | 1410 | 482 | 20.1176 |
| | 8 | Rabu | | | 1416 | 3444 | 984 | 1188 | 1062 | 5900 | | | 12500 | | 4470 | | 2820 | | 27.6057 |
| | 9 | Kamis | | | | | 456 | | 516 | 510 | 2230 | 590 | 6670 | | 3190 | | | | 12.0528 |
| | 10 | Jumat | | | | | 516 | | 558 | | 3230 | | 9620 | | 2830 | | | 250 | 15.3004 |
| | 11 | Sabtu | | | | | | | | | | | | | | | | | 0 |
| | 12 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 13 | Senin | | | | | | | | | | | | | | | | | 0 |
| | 14 | Selasa | | | | | | | | | | | | | | | | | 0 |
| | 15 | Rabu | | | | | | | | | | | | | | | | | 0 |
| | 16 | Kamis | | | | | | | | | | | | | | | | | 0 |
| | 17 | Jumat | | | | | | | | | | | | | | | | | 0 |
| | 18 | Sabtu | | | | | | | | | | | | | | | | | 0 |
| | 19 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 20 | Senin | | | | | | | | | | | | | | | | | 0 |
| | 21 | Selasa | | | | | | | | | | | | | | | | | 0 |
| | 22 | Rabu | | | | | | | | | | | | | | | | | 0 |
| | 23 | Kamis | | | | | | | | | | | | | | | | | 0 |
| | 24 | Jumat | | | | | | | | | | | | | | | | | 0 |
| | 25 | Sabtu | | | | | | | | | | | | | | | | | 0 |
| | 26 | Minggu | | | | | | | | | | | | | | | | | 0 |
| | 27 | Senin | | 480 | 1002 | 2094 | 3000 | | 2118 | 960 | 5770 | 560 | 22780 | 930 | 8350 | | | | 40.8885 |
| | 28 | Selasa | | 492 | 936 | 3150 | 3846 | 1458 | 3648 | | 2430 | 460 | 17470 | | 990 | | | 498 | 31.7601 |
| | 29 | Rabu | | | 3648 | | 2964 | | 2988 | | 8200 | | 28250 | | 7500 | | | 531 | 47.787 |
| | 30 | Kamis | | | 978 | 978 | 3246 | | 2028 | 1090 | 5020 | 790 | 25960 | 1210 | 6980 | 900 | | 488 | 43.8887 |
| | 31 | Jumat | | | 192 | 1068 | 5238 | | 2058 | 1310 | 4840 | 940 | 23060 | 1500 | 6220 | 1540 | | 635 | 43.468 |
| | | | | | | | | | | | | | | | | | 410.687 | | |

Lampiran 3: Distribusi Pemakaian Tepung Hari Senin



Distribution Summary

Distribution: Triangular
Expression: $TRIA(22, 61.9, 69)$
Square Error: 0.006971

Chi Square Test

Number of intervals = 6
Degrees of freedom = 4
Test Statistic = 4.62
Corresponding p-value = 0.345

Kolmogorov-Smirnov Test

Test Statistic = 0.0704
Corresponding p-value > 0.15

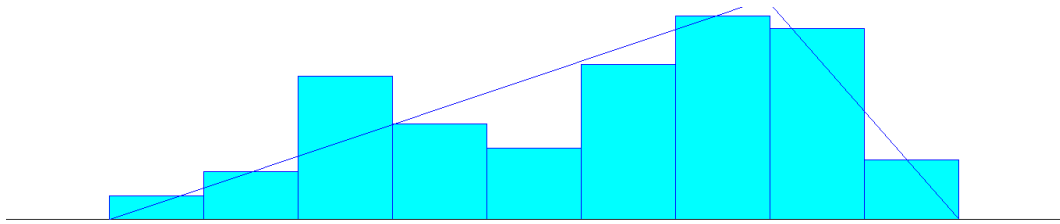
Data Summary

Number of Data Points = 82
Min Data Value = 22.3
Max Data Value = 68.2
Sample Mean = 51
Sample Std Dev = 11

Histogram Summary

Histogram Range = 22 to 69
Number of Intervals = 9

Lampiran 4: Distribusi Pemakaian Tepung Hari Selasa



Distribution Summary

Distribution: Triangular
Expression: $\text{TRIA}(12, 52.2, 64)$
Square Error: 0.010913

Chi Square Test

Number of intervals = 6
Degrees of freedom = 4
Test Statistic = 7.34
Corresponding p-value = 0.128

Kolmogorov-Smirnov Test

Test Statistic = 0.0902
Corresponding p-value > 0.15

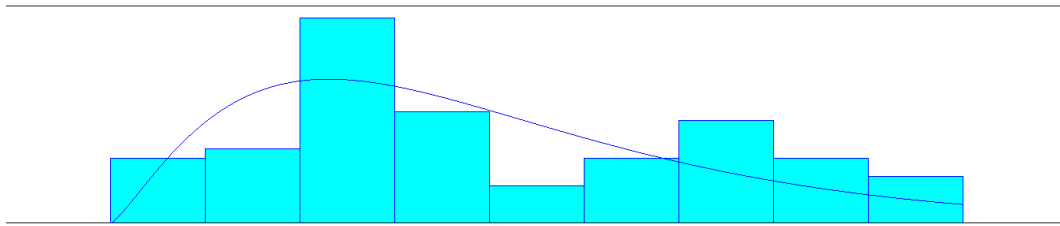
Data Summary

Number of Data Points = 83
Min Data Value = 12.9
Max Data Value = 63.1
Sample Mean = 42.7
Sample Std Dev = 12.4

Histogram Summary

Histogram Range = 12 to 64
Number of Intervals = 9

Lampiran 5: Distribusi Pemakaian Tepung Hari Rabu



Distribution Summary

Distribution: Gamma

Expression: $14 + \text{GAMM}(0, 0)$

Square Error: 0.025111

Chi Square Test

Number of intervals = 5

Degrees of freedom = 2

Test Statistic = 15.4

Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.112

Corresponding p-value > 0.15

Data Summary

Number of Data Points = 83

Min Data Value = 14.7

Max Data Value = 64.3

Sample Mean = 36.9

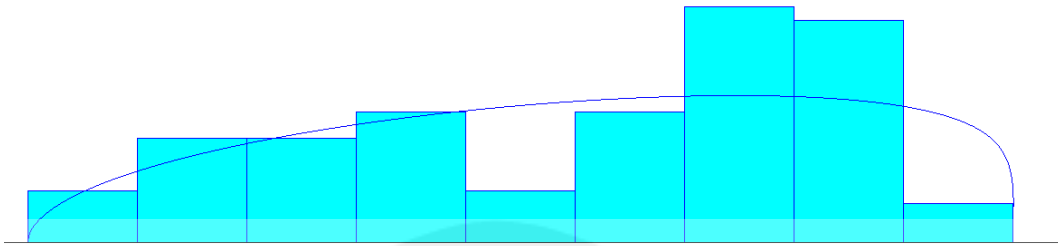
Sample Std Dev = 13.4

Histogram Summary

Histogram Range = 14 to 65

Number of Intervals = 9

Lampiran 6: Distribusi Pemakaian Tepung Hari Kamis



Distribution Summary

Distribution: Beta

Expression: $12 + 58 * \text{BETA}(1.51, 1.2)$

Square Error: 0.024337

Chi Square Test

Number of intervals = 8

Degrees of freedom = 5

Test Statistic = 15.9

Corresponding p-value = 0.00767

Kolmogorov-Smirnov Test

Test Statistic = 0.11

Corresponding p-value > 0.15

Data Summary

Number of Data Points = 82

Min Data Value = 12.1

Max Data Value = 69.4

Sample Mean = 44.3

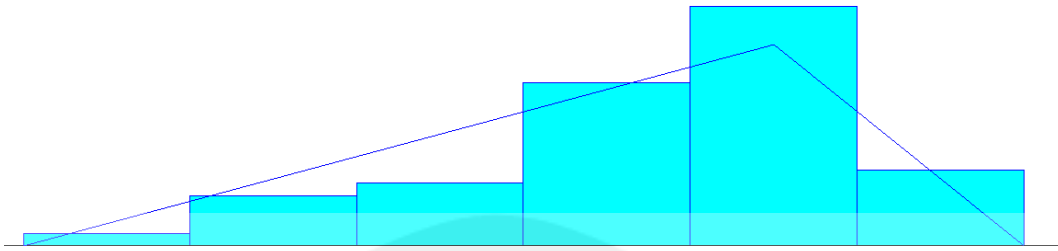
Sample Std Dev = 15

Histogram Summary

Histogram Range = 12 to 70

Number of Intervals = 9

Lampiran 7: Distribusi Pemakaian Tepung Hari Jumat



Distribution Summary

Distribution: Triangular
Expression: $TRIA(15, 53.3, 66)$
Square Error: 0.017833

Chi Square Test

Number of intervals = 5
Degrees of freedom = 3
Test Statistic = 4.04
Corresponding p-value = 0.26

Kolmogorov-Smirnov Test

Test Statistic = 0.154
Corresponding p-value > 0.15

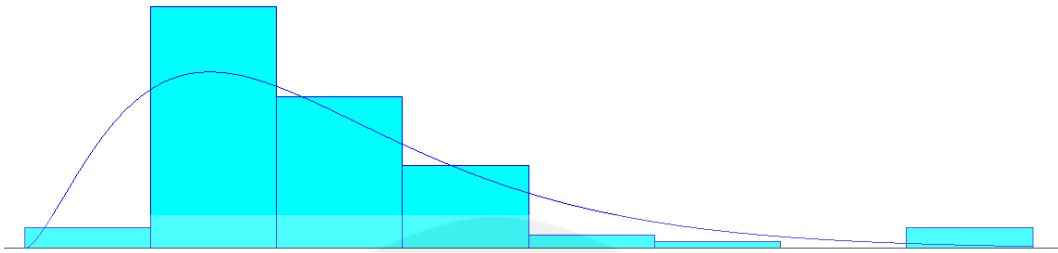
Data Summary

Number of Data Points = 48
Min Data Value = 15.3
Max Data Value = 65.9
Sample Mean = 46.8
Sample Std Dev = 10.2

Histogram Summary

Histogram Range = 15 to 66
Number of Intervals = 6

Lampiran 8: Distribusi Pemakaian Tepung Hari Sabtu



Distribution Summary

Distribution: Gamma

Expression: $3 + \text{GAMM}(6.41, 2.6)$

Square Error: 0.036510

Chi Square Test

Number of intervals = 5

Degrees of freedom = 2

Test Statistic = 16.7

Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.155

Corresponding p-value = 0.0429

Data Summary

Number of Data Points = 78

Min Data Value = 3.13

Max Data Value = 58.2

Sample Mean = 19.7

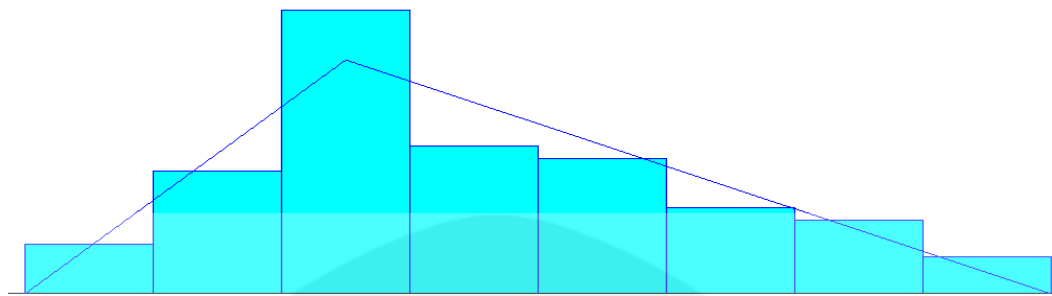
Sample Std Dev = 9.68

Histogram Summary

Histogram Range = 3 to 59

Number of Intervals = 8

Lampiran 9: Distribusi Pemakaian Tepung Mingguan



Distribution Summary

Distribution: Triangular
Expression: $TRIA(167, 223, 347)$
Square Error: 0.008603

Chi Square Test

| | |
|-----------------------|---------|
| Number of intervals | = 5 |
| Degrees of freedom | = 3 |
| Test Statistic | = 2.97 |
| Corresponding p-value | = 0.413 |

Kolmogorov-Smirnov Test

| | |
|-----------------------|----------|
| Test Statistic | = 0.0731 |
| Corresponding p-value | > 0.15 |

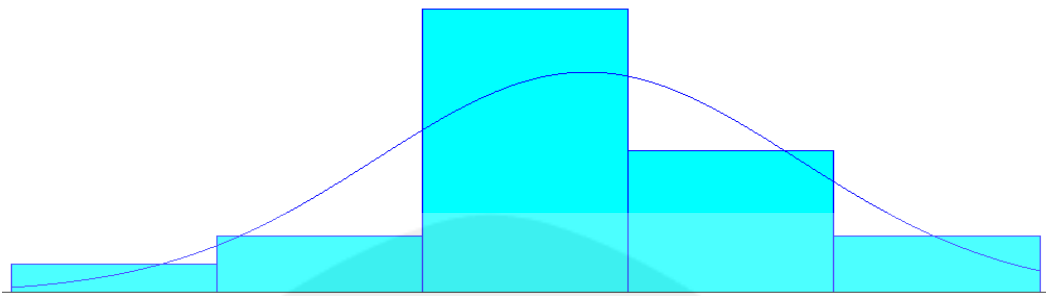
Data Summary

| | |
|-----------------------|--------|
| Number of Data Points | = 76 |
| Min Data Value | = 167 |
| Max Data Value | = 347 |
| Sample Mean | = 246 |
| Sample Std Dev | = 40.5 |

Histogram Summary

| | |
|---------------------|--------------|
| Histogram Range | = 167 to 347 |
| Number of Intervals | = 8 |

Lampiran 10: Distribusi Pemakaian Tepung Bulanan



Distribution Summary

Distribution: Normal
Expression: NORM(989, 212)
Square Error: 0.028476

Chi Square Test

Number of intervals = 2
Degrees of freedom = -1
Test Statistic = 0.519
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.134
Corresponding p-value > 0.15

Data Summary

Number of Data Points = 20
Min Data Value = 411
Max Data Value = 1.44e+003
Sample Mean = 989
Sample Std Dev = 217

Histogram Summary

Histogram Range = 410 to 1.45e+003
Number of Intervals = 5

Lampiran 11: Contoh Model Simulasi (ROP= 200 dan y= 900)

| Bulan | No. | Hari | B. Random | Senin | Selasa | Rabu | Kamis | Jumat | Sabtu | Demand (sak) |
|---------------|-----|--------|-----------|--------------------|--------------------|-----------------------|-----------------------------|--------------------|---------------------|--------------|
| | | | | TRIA(22, 61.9, 69) | TRIA(12, 52.2, 64) | 14 + GAMM(9.87, 2.32) | 12 + 58 * BETA(1.5, 1, 1.2) | TRIA(15, 53.3, 66) | 3 + GAMM(6.41, 2.6) | |
| Januari 2013 | 1 | Selasa | 0.78 | | 52.3903 | | | | | 52 |
| | 2 | Rabu | 0.22 | | | 31.09048 | | | | 31 |
| | 3 | Kamis | 0.52 | | | | 46.10145 | | | 46 |
| | 4 | Jumat | 0.39 | | | | | 42.5439 | | 43 |
| | 5 | Sabtu | 0.71 | | | | | | 22.5134 | 23 |
| | 6 | Minggu | 0.09 | | | | | | | 0 |
| | 7 | Senin | 0.61 | 55.8525 | | | | | | 56 |
| | 8 | Selasa | 0.36 | | 39.4852 | | | | | 39 |
| | 9 | Rabu | 0.15 | | | 29.43135 | | | | 29 |
| | 10 | Kamis | 0.78 | | | | 58.0989 | | | 58 |
| | 11 | Jumat | 0.87 | | | | | 56.8362 | | 57 |
| | 12 | Sabtu | 0.39 | | | | | | 17.1441 | 17 |
| | 13 | Minggu | 0.57 | | | | | | | 0 |
| | 14 | Senin | 0.39 | 49.0072 | | | | | | 49 |
| | 15 | Selasa | 0.56 | | 46.2531 | | | | | 46 |
| | 16 | Rabu | 0.91 | | | 47.36871 | | | | 47 |
| | 17 | Kamis | 0.9 | | | | 63.89498 | | | 64 |
| | 18 | Jumat | 0.25 | | | | | 37.209 | | 37 |
| | 19 | Sabtu | 0.46 | | | | | | 18.1928 | 18 |
| | 20 | Minggu | 0.69 | | | | | | | 0 |
| | 21 | Senin | 0.48 | 51.9378 | | | | | | 52 |
| | 22 | Selasa | 0.99 | | 61.5158 | | | | | 62 |
| | 23 | Rabu | 0.71 | | | 40.25426 | | | | 40 |
| | 24 | Kamis | 0.97 | | | | 68.00815 | | | 68 |
| | 25 | Jumat | 0.53 | | | | | 47.2766 | | 47 |
| | 26 | Sabtu | 0.18 | | | | | | 13.7297 | 14 |
| | 27 | Minggu | 0.6 | | | | | | | 0 |
| | 28 | Senin | 0.1 | 35.4486 | | | | | | 35 |
| | 29 | Selasa | 0.29 | | 36.4414 | | | | | 36 |
| | 30 | Rabu | 0.58 | | | 37.56874 | | | | 38 |
| | 31 | Kamis | 0.73 | | | | 56.14831 | | | 56 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Desember 2013 | 8 | Minggu | 0.94 | | | | | | | 0 |
| | 9 | Senin | 0.97 | 66.0134 | | | | | | 66 |
| | 10 | Selasa | 0.2 | | 32.2685 | | | | | 32 |
| | 11 | Rabu | 0.27 | | | 32.04834 | | | | 32 |
| | 12 | Kamis | 0.08 | | | | 21.52312 | | | 22 |
| | 13 | Jumat | 0.79 | | | | | 54.4658 | | 54 |
| | 14 | Sabtu | 0.82 | | | | | | 25.4775 | 25 |
| | 15 | Minggu | 0.59 | | | | | | | 0 |
| | 16 | Senin | 0.48 | 52.0852 | | | | | | 52 |
| | 17 | Selasa | 0.61 | | 47.566 | | | | | 48 |
| | 18 | Rabu | 0.11 | | | 28.4566 | | | | 28 |
| | 19 | Kamis | 0.63 | | | | 51.42295 | | | 51 |
| | 20 | Jumat | 0.01 | | | | | 18.415 | | 18 |
| | 21 | Sabtu | 0.93 | | | | | | 30.4555 | 30 |
| | 22 | Minggu | 0.05 | | | | | | | 0 |
| | 23 | Senin | 0.13 | 37.8886 | | | | | | 38 |
| | 24 | Selasa | 0.16 | | 30.0993 | | | | | 30 |
| | 25 | Rabu | 0.54 | | | 36.80316 | | | | 37 |
| | 26 | Kamis | 0.49 | | | | 44.52796 | | | 45 |
| | 27 | Jumat | 0.75 | | | | | 53.3578 | | 53 |
| | 28 | Sabtu | 0.35 | | | | | | 16.4632 | 16 |
| | 29 | Minggu | 0.84 | | | | | | | 0 |
| | 30 | Senin | 0.65 | 56.9816 | | | | | | 57 |
| | 31 | Selasa | 0.3 | | 37.2122 | | | | | 37 |

| P. Akhir (sak) | ROP : 200 | | | y : 900 | | | | | | |
|----------------|-----------|-----------|-----------|--------------------|-------------------|---------------|--------------------|----------------|-------------|--------------------------|
| | Pesan | B. Random | Lead Time | Tepung Masuk (sak) | B. Pembelian (Rp) | B. Pesan (Rp) | B. Transp ort (Rp) | B. Simpan (Rp) | B. Krg (Rp) | T. Biaya Persediaan (Rp) |
| 848 | t | 0 | 0 | 900 | 149,589,000 | 0 | 0 | 27,996 | 0 | 149,616,996 |
| 817 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,973 | 0 | 26,973 |
| 771 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,454 | 0 | 25,454 |
| 728 | t | 0 | 0 | 0 | 0 | 0 | 0 | 24,034 | 0 | 24,034 |
| 705 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,275 | 0 | 23,275 |
| 705 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,275 | 0 | 23,275 |
| 649 | t | 0 | 0 | 0 | 0 | 0 | 0 | 21,426 | 0 | 21,426 |
| 610 | t | 0 | 0 | 0 | 0 | 0 | 0 | 20,139 | 0 | 20,139 |
| 581 | t | 0 | 0 | 0 | 0 | 0 | 0 | 19,181 | 0 | 19,181 |
| 523 | t | 0 | 0 | 0 | 0 | 0 | 0 | 17,266 | 0 | 17,266 |
| 466 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,385 | 0 | 15,385 |
| 449 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,823 | 0 | 14,823 |
| 449 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,823 | 0 | 14,823 |
| 400 | t | 0 | 0 | 0 | 0 | 0 | 0 | 13,206 | 0 | 13,206 |
| 354 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,687 | 0 | 11,687 |
| 307 | t | 0 | 0 | 0 | 0 | 0 | 0 | 10,135 | 0 | 10,135 |
| 243 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,022 | 0 | 8,022 |
| 206 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,801 | 0 | 6,801 |
| 188 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,207 | 0 | 6,207 |
| 188 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,207 | 0 | 6,207 |
| 136 | p | 0.9 | 3 | 0 | 0 | 1,000 | 0 | 4,490 | 0 | 5,490 |
| 74 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,443 | 0 | 2,443 |
| 34 | t | 0 | 0 | 0 | 0 | 0 | 0 | 1,122 | 0 | 1,122 |
| 866 | t | 0 | 0 | 900 | 149,589,000 | 0 | 0 | 28,590 | 0 | 149,617,590 |
| 819 | t | 0 | 0 | 0 | 0 | 0 | 0 | 27,039 | 0 | 27,039 |
| 805 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,577 | 0 | 26,577 |
| 805 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,577 | 0 | 26,577 |
| 770 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,421 | 0 | 25,421 |
| 734 | t | 0 | 0 | 0 | 0 | 0 | 0 | 24,233 | 0 | 24,233 |
| 696 | t | 0 | 0 | 0 | 0 | 0 | 0 | 22,978 | 0 | 22,978 |
| 640 | t | 0 | 0 | 0 | 0 | 0 | 0 | 21,129 | 0 | 21,129 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 270 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,914 | 0 | 8,914 |
| 204 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,735 | 0 | 6,735 |
| 172 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,678 | 0 | 5,678 |
| 140 | p | 0.81 | 3 | 0 | 0 | 1,000 | 0 | 4,622 | 0 | 5,622 |
| 118 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,896 | 0 | 3,896 |
| 64 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,113 | 0 | 2,113 |
| 939 | t | 0 | 0 | 900 | 149,589,000 | 0 | 0 | 31,000 | 0 | 149,620,000 |
| 939 | t | 0 | 0 | 0 | 0 | 0 | 0 | 31,000 | 0 | 31,000 |
| 887 | t | 0 | 0 | 0 | 0 | 0 | 0 | 29,284 | 0 | 29,284 |
| 839 | t | 0 | 0 | 0 | 0 | 0 | 0 | 27,699 | 0 | 27,699 |
| 811 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,775 | 0 | 26,775 |
| 760 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,091 | 0 | 25,091 |
| 742 | t | 0 | 0 | 0 | 0 | 0 | 0 | 24,497 | 0 | 24,497 |
| 712 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,506 | 0 | 23,506 |
| 712 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,506 | 0 | 23,506 |
| 674 | t | 0 | 0 | 0 | 0 | 0 | 0 | 22,252 | 0 | 22,252 |
| 644 | t | 0 | 0 | 0 | 0 | 0 | 0 | 21,261 | 0 | 21,261 |
| 607 | t | 0 | 0 | 0 | 0 | 0 | 0 | 20,040 | 0 | 20,040 |
| 562 | t | 0 | 0 | 0 | 0 | 0 | 0 | 18,554 | 0 | 18,554 |
| 509 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,804 | 0 | 16,804 |
| 493 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,276 | 0 | 16,276 |
| 493 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,276 | 0 | 16,276 |
| 436 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,394 | 0 | 14,394 |
| 399 | t | 0 | 0 | 0 | 0 | 0 | 0 | 13,173 | 0 | 13,173 |

Lampiran 12: Contoh Model Simulasi (ROP= 200 dan y= 450)

| Bulan | No. | Hari | B. Rand om | Senin | Selasa | Rabu | Kamis | Jumat | Sabtu | Dem and (sak) |
|---------------|--------|--------|------------|--------------------|--------------------|------------------------|----------------------------|--------------------|----------------------|---------------|
| | | | | TRIA(22, 61.9, 69) | TRIA(12, 52.2, 64) | 14 + GAMM(9. 87, 2.32) | 12 + 58 * BETA(1.5 1, 1.2) | TRIA(15, 53.3, 66) | 3 + GAMM(6 .41, 2.6) | |
| Januari 2013 | 1 | Selasa | 0.18 | | 31.2207 | | | | | 31 |
| | 2 | Rabu | 0.02 | | | 24.57072 | | | | 25 |
| | 3 | Kamis | 0.61 | | | | 50.28059 | | | 50 |
| | 4 | Jumat | 0.71 | | | | | 52.2899 | | 52 |
| | 5 | Sabtu | 0.27 | | | | | | 15.1393 | 15 |
| | 6 | Minggu | 0.99 | | | | | | | 0 |
| | 7 | Senin | 0.3 | 45.7148 | | | | | | 46 |
| | 8 | Selasa | 0.56 | | 46.3143 | | | | | 46 |
| | 9 | Rabu | 0.17 | | | 30.05037 | | | | 30 |
| | 10 | Kamis | 0.52 | | | | 46.37779 | | | 46 |
| | 11 | Jumat | 0.97 | | | | | 61.5222 | | 62 |
| | 12 | Sabtu | 0.69 | | | | | | 22.2453 | 22 |
| | 13 | Minggu | 0.39 | | | | | | | 0 |
| | 14 | Senin | 0.66 | 57.2573 | | | | | | 57 |
| | 15 | Selasa | 0.34 | | 38.5415 | | | | | 39 |
| | 16 | Rabu | 0.12 | | | 28.81995 | | | | 29 |
| | 17 | Kamis | 0.57 | | | | 48.57679 | | | 49 |
| | 18 | Jumat | 0.01 | | | | | 18.2979 | | 18 |
| | 19 | Sabtu | 0.33 | | | | | | 16.0934 | 16 |
| | 20 | Minggu | 0.24 | | | | | | | 0 |
| | 21 | Senin | 0.29 | 45.3324 | | | | | | 45 |
| | 22 | Selasa | 0.16 | | 30.1736 | | | | | 30 |
| | 23 | Rabu | 0.46 | | | 35.36063 | | | | 35 |
| | 24 | Kamis | 0.34 | | | | 37.24586 | | | 37 |
| | 25 | Jumat | 0.37 | | | | | 42.0237 | | 42 |
| | 26 | Sabtu | 0.9 | | | | | | 28.6967 | 29 |
| | 27 | Minggu | 0.55 | | | | | | | 0 |
| | 28 | Senin | 0.77 | 60.0562 | | | | | | 60 |
| | 29 | Selasa | 0.94 | | 58.1087 | | | | | 58 |
| | 30 | Rabu | 0.82 | | | 43.32996 | | | | 43 |
| | 31 | Kamis | 0.73 | | | | 56.09111 | | | 56 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Desember 2013 | 8 | Minggu | 0.55 | | | | | | | 0 |
| | 9 | Senin | 0.62 | 56.0907 | | | | | | 56 |
| | 10 | Selasa | 0.99 | | 61.3952 | | | | | 61 |
| | 11 | Rabu | 0.41 | | | 34.52691 | | | | 35 |
| | 12 | Kamis | 0.87 | | | | 62.82368 | | | 63 |
| | 13 | Jumat | 0.82 | | | | | 55.2601 | | 55 |
| | 14 | Sabtu | 0.16 | | | | | | 13.3676 | 13 |
| | 15 | Minggu | 0.74 | | | | | | | 0 |
| | 16 | Senin | 0.42 | 50.2139 | | | | | | 50 |
| | 17 | Selasa | 0.26 | | 35.278 | | | | | 35 |
| | 18 | Rabu | 0.64 | | | 38.76301 | | | | 39 |
| | 19 | Kamis | 0.76 | | | | 57.27644 | | | 57 |
| | 20 | Jumat | 0.93 | | | | | 59.4815 | | 59 |
| | 21 | Sabtu | 0.49 | | | | | | 18.6224 | 19 |
| 22 | Minggu | 0.37 | | | | | | | 0 | |
| 23 | Senin | 0.54 | 53.8611 | | | | | | 54 | |
| 24 | Selasa | 0.33 | | 38.2097 | | | | | 38 | |
| 25 | Rabu | 0.69 | | | 39.95209 | | | | 40 | |
| 26 | Kamis | 0.69 | | | | 53.9471 | | | 54 | |
| 27 | Jumat | 0.58 | | | | | 48.682 | | 49 | |
| 28 | Sabtu | 0.41 | | | | | | 17.3685 | 17 | |
| 29 | Minggu | 0.33 | | | | | | | 0 | |
| 30 | Senin | 0.04 | 30.5307 | | | | | | 31 | |
| 31 | Selasa | 0.62 | | 48.116 | | | | | 48 | |

| | ROP : 200 | | | y : 450 | | | | | | |
|----------------|-----------|-----------|------------------|--------------------|-------------------|---------------|-------------------|----------------|-------------|--------------------------|
| P. Akhir (sak) | Pesan | B. Random | Lead Time (hari) | Tepung Masuk (sak) | B. Pembelian (Rp) | B. Pesan (Rp) | B. Transport (Rp) | B. Simpan (Rp) | B. Krg (Rp) | T. Biaya Persediaan (Rp) |
| 419 | t | 0 | 0 | 450 | 74,794,500 | 0 | 392,500 | 13,833 | 0 | 75,200,833 |
| 394 | t | 0 | 0 | 0 | 0 | 0 | 0 | 13,008 | 0 | 13,008 |
| 344 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,357 | 0 | 11,357 |
| 292 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,640 | 0 | 9,640 |
| 277 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,145 | 0 | 9,145 |
| 277 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,145 | 0 | 9,145 |
| 231 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,626 | 0 | 7,626 |
| 185 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,108 | 0 | 6,108 |
| 155 | p | 0.77 | 3 | 0 | 0 | 1,000 | 0 | 5,117 | 0 | 6,117 |
| 109 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,599 | 0 | 3,599 |
| 47 | t | 0 | 0 | 0 | 0 | 0 | 0 | 1,552 | 0 | 1,552 |
| 475 | t | 0 | 0 | 450 | 74,794,500 | 0 | 392,500 | 15,682 | 0 | 75,202,682 |
| 475 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,682 | 0 | 15,682 |
| 418 | t | 0 | 0 | 0 | 0 | 0 | 0 | 13,800 | 0 | 13,800 |
| 379 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,512 | 0 | 12,512 |
| 350 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,555 | 0 | 11,555 |
| 301 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,937 | 0 | 9,937 |
| 283 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,343 | 0 | 9,343 |
| 267 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,815 | 0 | 8,815 |
| 267 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,815 | 0 | 8,815 |
| 222 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,329 | 0 | 7,329 |
| 192 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,339 | 0 | 6,339 |
| 157 | p | 0.3 | 2 | 0 | 0 | 1,000 | 0 | 5,183 | 0 | 6,183 |
| 120 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,962 | 0 | 3,962 |
| 528 | t | 0 | 0 | 450 | 74,794,500 | 0 | 392,500 | 17,432 | 0 | 75,204,432 |
| 499 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,474 | 0 | 16,474 |
| 499 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,474 | 0 | 16,474 |
| 439 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,493 | 0 | 14,493 |
| 381 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,578 | 0 | 12,578 |
| 338 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,159 | 0 | 11,159 |
| 282 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,310 | 0 | 9,310 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 437 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,427 | 0 | 14,427 |
| 381 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,578 | 0 | 12,578 |
| 320 | t | 0 | 0 | 0 | 0 | 0 | 0 | 10,565 | 0 | 10,565 |
| 285 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,409 | 0 | 9,409 |
| 222 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,329 | 0 | 7,329 |
| 167 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,513 | 0 | 5,513 |
| 154 | p | 0.62 | 2 | 0 | 0 | 1,000 | 0 | 5,084 | 0 | 6,084 |
| 154 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,084 | 0 | 5,084 |
| 104 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,433 | 0 | 3,433 |
| 519 | t | 0 | 0 | 450 | 74,794,500 | 0 | 392,500 | 17,134 | 0 | 75,204,134 |
| 480 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,847 | 0 | 15,847 |
| 423 | t | 0 | 0 | 0 | 0 | 0 | 0 | 13,965 | 0 | 13,965 |
| 364 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,017 | 0 | 12,017 |
| 345 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,390 | 0 | 11,390 |
| 345 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,390 | 0 | 11,390 |
| 291 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,607 | 0 | 9,607 |
| 253 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,353 | 0 | 8,353 |
| 213 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,032 | 0 | 7,032 |
| 159 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,249 | 0 | 5,249 |
| 110 | p | 0.87 | 3 | 0 | 0 | 1,000 | 0 | 3,632 | 0 | 4,632 |
| 93 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,070 | 0 | 3,070 |
| 93 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,070 | 0 | 3,070 |
| 62 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,047 | 0 | 2,047 |
| 464 | t | 0 | 0 | 450 | 74,794,500 | 0 | 392,500 | 15,319 | 0 | 75,202,319 |

Lampiran 13: Contoh Model Simulasi Pemesanan Secara Periodik dengan Q Tetap

| Bulan | No. | Hari | B. Random | Senin | Selasa | Rabu | Kamis | Jumat | Sabtu | Demand (sak) |
|---------------|--------|--------|-----------|--------------------|--------------------|-----------------------|---------------------------|--------------------|---------------------|--------------|
| | | | | TRIA(22, 61.9, 69) | TRIA(12, 52.2, 64) | 14 + GAMM(9.87, 2.32) | 12 + 58 * BETA(1.51, 1.2) | TRIA(15, 53.3, 66) | 3 + GAMM(6.41, 2.6) | |
| Januari 2013 | 1 | Selasa | 0.24 | | 34.3174 | | | | | 34 |
| | 2 | Rabu | 0.19 | | | 30.40394 | | | | 30 |
| | 3 | Kamis | 0.63 | | | | 51.51295 | | | 52 |
| | 4 | Jumat | 0.04 | | | | | 23.9783 | | 24 |
| | 5 | Sabtu | 0.64 | | | | | | 21.1865 | 21 |
| | 6 | Minggu | 0.28 | | | | | | | 0 |
| | 7 | Senin | 0.49 | 52.3858 | | | | | | 52 |
| | 8 | Selasa | 0.9 | | 56.1806 | | | | | 56 |
| | 9 | Rabu | 0.83 | | | 43.61562 | | | | 44 |
| | 10 | Kamis | 0.74 | | | | 56.27279 | | | 56 |
| | 11 | Jumat | 0.4 | | | | | 43.0304 | | 43 |
| | 12 | Sabtu | 0.76 | | | | | | 23.6793 | 24 |
| | 13 | Minggu | 0.32 | | | | | | | 0 |
| | 14 | Senin | 0.86 | 62.1273 | | | | | | 62 |
| | 15 | Selasa | 0.98 | | 60.6583 | | | | | 61 |
| | 16 | Rabu | 0.98 | | | 54.9059 | | | | 55 |
| | 17 | Kamis | 0.44 | | | | 42.44376 | | | 42 |
| | 18 | Jumat | 0.65 | | | | | 50.7014 | | 51 |
| | 19 | Sabtu | 0.99 | | | | | | 38.9971 | 39 |
| | 20 | Minggu | 0.78 | | | | | | | 0 |
| | 21 | Senin | 0.39 | 49.0991 | | | | | | 49 |
| | 22 | Selasa | 0.12 | | 28.0089 | | | | | 28 |
| | 23 | Rabu | 0.69 | | | 39.90129 | | | | 40 |
| | 24 | Kamis | 0.17 | | | | 27.70772 | | | 28 |
| | 25 | Jumat | 0.5 | | | | | 46.4067 | | 46 |
| | 26 | Sabtu | 0.14 | | | | | | 12.9562 | 13 |
| | 27 | Minggu | 0.28 | | | | | | | 0 |
| | 28 | Senin | 0.97 | 65.9123 | | | | | | 66 |
| | 29 | Selasa | 0.85 | | 54.3781 | | | | | 54 |
| | 30 | Rabu | 0.05 | | | 26.23799 | | | | 26 |
| | 31 | Kamis | 0.22 | | | | 30.52468 | | | 31 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Desember 2013 | 8 | Minggu | 0.64 | | | | | | | 0 |
| | 9 | Senin | 0.87 | 62.3888 | | | | | | 62 |
| | 10 | Selasa | 0.8 | | 52.9237 | | | | | 53 |
| | 11 | Rabu | 0.03 | | | 25.01964 | | | | 25 |
| | 12 | Kamis | 0.05 | | | | 19.16312 | | | 19 |
| | 13 | Jumat | 0.44 | | | | | 44.1813 | | 44 |
| | 14 | Sabtu | 0.39 | | | | | | 17.0173 | 17 |
| | 15 | Minggu | 0.45 | | | | | | | 0 |
| | 16 | Senin | 0.57 | 54.5893 | | | | | | 55 |
| | 17 | Selasa | 0.93 | | 57.2205 | | | | | 57 |
| | 18 | Rabu | 0.97 | | | 52.92887 | | | | 53 |
| | 19 | Kamis | 0.01 | | | | 13.58987 | | | 14 |
| | 20 | Jumat | 0.45 | | | | | 44.6838 | | 45 |
| | 21 | Sabtu | 0.89 | | | | | | 28.2134 | 28 |
| 22 | Minggu | 0.88 | | | | | | | 0 | |
| 23 | Senin | 0.84 | 61.6803 | | | | | | 62 | |
| 24 | Selasa | 0.97 | | 59.4014 | | | | | 59 | |
| 25 | Rabu | 0.19 | | | 30.37214 | | | | 30 | |
| 26 | Kamis | 0.94 | | | | 66.18196 | | | 66 | |
| 27 | Jumat | 0.99 | | | | | 63.7677 | | 64 | |
| 28 | Sabtu | 0.68 | | | | | | 21.9382 | 22 | |
| 29 | Minggu | 0.32 | | | | | | | 0 | |
| 30 | Senin | 0.63 | 56.2935 | | | | | | 56 | |
| 31 | Selasa | 0.26 | | 35.2941 | | | | | 35 | |

| Periode | | : 7 | | y : 330 | | | | | | |
|----------------|-------|-----------|-----------|--------------------|-------------------|---------------|-------------------|----------------|-------------|--------------------------|
| P. Akhir (sak) | Pesan | B. Random | Lead Time | Tepung Masuk (sak) | B. Pembelian (Rp) | B. Pesan (Rp) | B. Transport (Rp) | B. Simpan (Rp) | B. Krg (Rp) | T. Biaya Persediaan (Rp) |
| 296 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 9,772 | 0 | 55,155,572 |
| 266 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,782 | 0 | 8,782 |
| 214 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,065 | 0 | 7,065 |
| 190 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,273 | 0 | 6,273 |
| 169 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,579 | 0 | 5,579 |
| 169 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,579 | 0 | 5,579 |
| 117 | p | 0.44 | 2 | 0 | 0 | 1,000 | 0 | 3,863 | 0 | 4,863 |
| 61 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,014 | 0 | 2,014 |
| 347 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 11,456 | 0 | 55,157,256 |
| 291 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,607 | 0 | 9,607 |
| 248 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,188 | 0 | 8,188 |
| 224 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,395 | 0 | 7,395 |
| 224 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,395 | 0 | 7,395 |
| 162 | p | 0.04 | 1 | 0 | 0 | 1,000 | 0 | 5,348 | 0 | 6,348 |
| 431 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 14,229 | 0 | 55,160,029 |
| 376 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,413 | 0 | 12,413 |
| 334 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,027 | 0 | 11,027 |
| 283 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,343 | 0 | 9,343 |
| 244 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,055 | 0 | 8,055 |
| 244 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,055 | 0 | 8,055 |
| 195 | p | 0.06 | 2 | 0 | 0 | 1,000 | 0 | 6,438 | 0 | 7,438 |
| 167 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,513 | 0 | 5,513 |
| 457 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 15,088 | 0 | 55,160,888 |
| 429 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,163 | 0 | 14,163 |
| 383 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,644 | 0 | 12,644 |
| 370 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,215 | 0 | 12,215 |
| 370 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,215 | 0 | 12,215 |
| 304 | p | 0.97 | 3 | 0 | 0 | 1,000 | 0 | 10,036 | 0 | 11,036 |
| 250 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,254 | 0 | 8,254 |
| 224 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,395 | 0 | 7,395 |
| 523 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 17,266 | 0 | 55,163,066 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 4225 | t | 0 | 0 | 0 | 0 | 0 | 0 | 139,485 | 0 | 139,485 |
| 4163 | p | 0.79 | 3 | 0 | 0 | 1,000 | 0 | 137,439 | 0 | 138,439 |
| 4110 | t | 0 | 0 | 0 | 0 | 0 | 0 | 135,689 | 0 | 135,689 |
| 4085 | t | 0 | 0 | 0 | 0 | 0 | 0 | 134,863 | 0 | 134,863 |
| 4396 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 145,131 | 0 | 55,290,931 |
| 4352 | t | 0 | 0 | 0 | 0 | 0 | 0 | 143,678 | 0 | 143,678 |
| 4335 | t | 0 | 0 | 0 | 0 | 0 | 0 | 143,117 | 0 | 143,117 |
| 4335 | t | 0 | 0 | 0 | 0 | 0 | 0 | 143,117 | 0 | 143,117 |
| 4280 | p | 0.05 | 2 | 0 | 0 | 1,000 | 0 | 141,301 | 0 | 142,301 |
| 4223 | t | 0 | 0 | 0 | 0 | 0 | 0 | 139,419 | 0 | 139,419 |
| 4500 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 148,564 | 0 | 55,294,364 |
| 4486 | t | 0 | 0 | 0 | 0 | 0 | 0 | 148,102 | 0 | 148,102 |
| 4441 | t | 0 | 0 | 0 | 0 | 0 | 0 | 146,617 | 0 | 146,617 |
| 4413 | t | 0 | 0 | 0 | 0 | 0 | 0 | 145,692 | 0 | 145,692 |
| 4413 | t | 0 | 0 | 0 | 0 | 0 | 0 | 145,692 | 0 | 145,692 |
| 4351 | p | 0.48 | 2 | 0 | 0 | 1,000 | 0 | 143,645 | 0 | 144,645 |
| 4292 | t | 0 | 0 | 0 | 0 | 0 | 0 | 141,697 | 0 | 141,697 |
| 4592 | t | 0 | 0 | 330 | 54,849,300 | 0 | 296,500 | 151,602 | 0 | 55,297,402 |
| 4526 | t | 0 | 0 | 0 | 0 | 0 | 0 | 149,423 | 0 | 149,423 |
| 4462 | t | 0 | 0 | 0 | 0 | 0 | 0 | 147,310 | 0 | 147,310 |
| 4440 | t | 0 | 0 | 0 | 0 | 0 | 0 | 146,584 | 0 | 146,584 |
| 4440 | t | 0 | 0 | 0 | 0 | 0 | 0 | 146,584 | 0 | 146,584 |
| 4384 | p | 0.09 | 2 | 0 | 0 | 1,000 | 0 | 144,735 | 0 | 145,735 |
| 4349 | t | 0 | 0 | 0 | 0 | 0 | 0 | 143,579 | 0 | 143,579 |

Lampiran 14: Contoh Model Simulasi Pemesanan Secara Periodik dengan Q Berubah

| Bulan | No. | Hari | B. Random | Senin | Selasa | Rabu | Kamis | Jumat | Sabtu | Demand (sak) |
|---------------|--------|--------|-----------|--------------------|--------------------|-----------------------|---------------------------|--------------------|---------------------|--------------|
| | | | | TRIA(22, 61.9, 69) | TRIA(12, 52.2, 64) | 14 + GAMM(9.87, 2.32) | 12 + 58 * BETA(1.51, 1.2) | TRIA(15, 53.3, 66) | 3 + GAMM(6.41, 2.6) | |
| Januari 2013 | 1 | Selasa | 0.98 | | 60.5949 | | | | | 61 |
| | 2 | Rabu | 0.97 | | | 52.05585 | | | | 52 |
| | 3 | Kamis | 0.86 | | | | 62.00925 | | | 62 |
| | 4 | Jumat | 0.92 | | | | | 58.9437 | | 59 |
| | 5 | Sabtu | 0.02 | | | | | | 8.94337 | 9 |
| | 6 | Minggu | 0.55 | | | | | | | 0 |
| | 7 | Senin | 0.31 | 46.0787 | | | | | | 46 |
| | 8 | Selasa | 0.98 | | 60.2595 | | | | | 60 |
| | 9 | Rabu | 0.78 | | | 42.22564 | | | | 42 |
| | 10 | Kamis | 0.03 | | | | 16.42204 | | | 16 |
| | 11 | Jumat | 0.33 | | | | | 40.346 | | 40 |
| | 12 | Sabtu | 0.41 | | | | | | 17.3924 | 17 |
| | 13 | Minggu | 0.14 | | | | | | | 0 |
| | 14 | Senin | 0.81 | 61.078 | | | | | | 61 |
| | 15 | Selasa | 0.63 | | 48.4188 | | | | | 48 |
| | 16 | Rabu | 0.48 | | | 35.69246 | | | | 36 |
| | 17 | Kamis | 0.09 | | | | 21.84374 | | | 22 |
| | 18 | Jumat | 0.36 | | | | | 41.353 | | 41 |
| | 19 | Sabtu | 0.51 | | | | | | 19.0407 | 19 |
| | 20 | Minggu | 0.78 | | | | | | | 0 |
| | 21 | Senin | 0.83 | 61.5289 | | | | | | 62 |
| | 22 | Selasa | 0.49 | | 43.9487 | | | | | 44 |
| | 23 | Rabu | 0.21 | | | 30.90381 | | | | 31 |
| | 24 | Kamis | 0.66 | | | | 52.60728 | | | 53 |
| | 25 | Jumat | 0.9 | | | | | 57.8647 | | 58 |
| | 26 | Sabtu | 0.52 | | | | | | 19.1303 | 19 |
| | 27 | Minggu | 0.95 | | | | | | | 0 |
| | 28 | Senin | 0.84 | 61.7253 | | | | | | 62 |
| | 29 | Selasa | 1 | | 62.3442 | | | | | 62 |
| | 30 | Rabu | 0.77 | | | 41.92947 | | | | 42 |
| | 31 | Kamis | 0.05 | | | | 18.86184 | | | 19 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Desember 2013 | 8 | Rabu | 0.42 | | | 34.79721 | | | | 35 |
| | 9 | Kamis | 0.67 | | | | 53.21601 | | | 53 |
| | 10 | Jumat | 0.83 | | | | | 55.6324 | | 56 |
| | 11 | Sabtu | 0.76 | | | | | | 23.661 | 24 |
| | 12 | Minggu | 0.78 | | | | | | | 0 |
| | 13 | Senin | 0.19 | 40.985 | | | | | | 41 |
| | 14 | Selasa | 0.39 | | 40.6533 | | | | | 41 |
| | 15 | Rabu | 0.43 | | | 34.81239 | | | | 35 |
| | 16 | Kamis | 0.95 | | | | 66.55139 | | | 67 |
| | 17 | Jumat | 0.93 | | | | | 59.0705 | | 59 |
| | 18 | Sabtu | 0.27 | | | | | | 15.2486 | 15 |
| | 19 | Minggu | 0.15 | | | | | | | 0 |
| | 20 | Senin | 0.22 | 42.536 | | | | | | 43 |
| | 21 | Selasa | 0.44 | | 42.2801 | | | | | 42 |
| 22 | Rabu | 0.61 | | | 38.2092 | | | | 38 | |
| 23 | Kamis | 0.4 | | | | 40.26962 | | | 40 | |
| 24 | Jumat | 0.23 | | | | | 36.0902 | | 36 | |
| 25 | Sabtu | 0.62 | | | | | | 20.7615 | 21 | |
| 26 | Minggu | 0.03 | | | | | | | 0 | |
| 27 | Senin | 0.97 | 65.9624 | | | | | | 66 | |
| 28 | Selasa | 0.17 | | 30.8043 | | | | | 31 | |
| 29 | Rabu | 0.39 | | | 34.19321 | | | | 34 | |
| 30 | Kamis | 0.1 | | | | 23.21726 | | | 23 | |
| 31 | Jumat | 0.21 | | | | | 35.4688 | | 35 | |

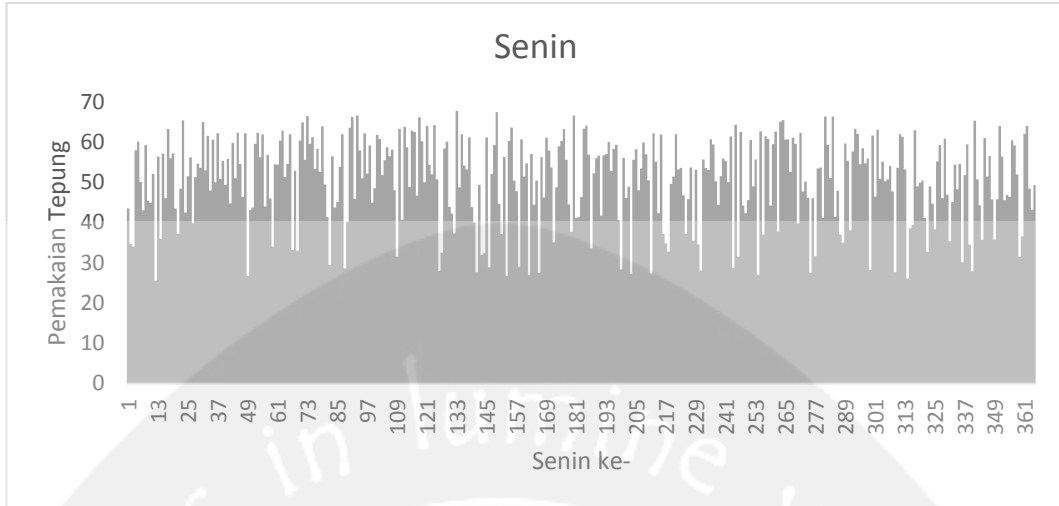
| Periode | | : 7 | | Tingkat Persediaan | | : 405 | | | | | |
|----------------|-------|-----------|-----------|--------------------|-------------------|---------------|--------------------|----------------|-------------|--------------------------|--|
| P. Akhir (sak) | Pesan | B. Random | Lead Time | Tepung Masuk (sak) | B. Pembelian (Rp) | B. Pesan (Rp) | B. Transp ort (Rp) | B. Simpan (Rp) | B. Krg (Rp) | T. Biaya Persediaan (Rp) | |
| 344 | t | 0 | 0 | 405 | 67,315,050 | 0 | 356,500 | 11,357 | 0 | 67,682,907 | |
| 292 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,640 | 0 | 9,640 | |
| 230 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,593 | 0 | 7,593 | |
| 171 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,645 | 0 | 5,645 | |
| 162 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,348 | 0 | 5,348 | |
| 162 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,348 | 0 | 5,348 | |
| 116 | p | 0.21 | 2 | 0 | 0 | 1,000 | 0 | 3,830 | 0 | 4,830 | |
| 56 | t | 0 | 0 | 0 | 0 | 0 | 0 | 1,849 | 0 | 1,849 | |
| 303 | t | 0 | 0 | 289 | 67,315,050 | 0 | 263,700 | 10,003 | 0 | 67,588,753 | |
| 287 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,475 | 0 | 9,475 | |
| 247 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,155 | 0 | 8,155 | |
| 230 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,593 | 0 | 7,593 | |
| 230 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,593 | 0 | 7,593 | |
| 169 | p | 0.71 | 2 | 0 | 0 | 1,000 | 0 | 5,579 | 0 | 6,579 | |
| 121 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,995 | 0 | 3,995 | |
| 321 | t | 0 | 0 | 236 | 67,315,050 | 0 | 221,300 | 10,598 | 0 | 67,546,948 | |
| 299 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,871 | 0 | 9,871 | |
| 258 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,518 | 0 | 8,518 | |
| 239 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,890 | 0 | 7,890 | |
| 239 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,890 | 0 | 7,890 | |
| 177 | p | 0.34 | 2 | 0 | 0 | 1,000 | 0 | 5,844 | 0 | 6,844 | |
| 133 | t | 0 | 0 | 0 | 0 | 0 | 0 | 4,391 | 0 | 4,391 | |
| 330 | t | 0 | 0 | 228 | 67,315,050 | 0 | 214,900 | 10,895 | 0 | 67,540,845 | |
| 277 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,145 | 0 | 9,145 | |
| 219 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,230 | 0 | 7,230 | |
| 200 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,603 | 0 | 6,603 | |
| 200 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,603 | 0 | 6,603 | |
| 138 | p | 0.52 | 2 | 0 | 0 | 1,000 | 0 | 4,556 | 0 | 5,556 | |
| 76 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,509 | 0 | 2,509 | |
| 301 | t | 0 | 0 | 267 | 67,315,050 | 0 | 246,100 | 9,937 | 0 | 67,571,087 | |
| 282 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,310 | 0 | 9,310 | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 193 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,372 | 0 | 6,372 | |
| 140 | p | 0.56 | 2 | 0 | 0 | 1,000 | 0 | 4,622 | 0 | 5,622 | |
| 84 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,773 | 0 | 2,773 | |
| 325 | t | 0 | 0 | 265 | 67,315,050 | 0 | 244,500 | 10,730 | 0 | 67,570,280 | |
| 325 | t | 0 | 0 | 0 | 0 | 0 | 0 | 10,730 | 0 | 10,730 | |
| 284 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,376 | 0 | 9,376 | |
| 243 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,022 | 0 | 8,022 | |
| 208 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,867 | 0 | 6,867 | |
| 141 | p | 0.45 | 2 | 0 | 0 | 1,000 | 0 | 4,655 | 0 | 5,655 | |
| 82 | t | 0 | 0 | 0 | 0 | 0 | 0 | 2,707 | 0 | 2,707 | |
| 331 | t | 0 | 0 | 264 | 67,315,050 | 0 | 243,700 | 10,928 | 0 | 67,569,678 | |
| 331 | t | 0 | 0 | 0 | 0 | 0 | 0 | 10,928 | 0 | 10,928 | |
| 288 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,508 | 0 | 9,508 | |
| 246 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,122 | 0 | 8,122 | |
| 208 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,867 | 0 | 6,867 | |
| 168 | p | 0.28 | 2 | 0 | 0 | 1,000 | 0 | 5,546 | 0 | 6,546 | |
| 132 | t | 0 | 0 | 0 | 0 | 0 | 0 | 4,358 | 0 | 4,358 | |
| 348 | t | 0 | 0 | 237 | 67,315,050 | 0 | 222,100 | 11,489 | 0 | 67,548,639 | |
| 348 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,489 | 0 | 11,489 | |
| 282 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,310 | 0 | 9,310 | |
| 251 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,287 | 0 | 8,287 | |
| 217 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,164 | 0 | 7,164 | |
| 194 | p | 0.08 | 2 | 0 | 0 | 1,000 | 0 | 6,405 | 0 | 7,405 | |
| 159 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,249 | 0 | 5,249 | |

Lampiran 15: Contoh Model Simulasi Pemesanan Berdasarkan ROP dengan Q Berubah

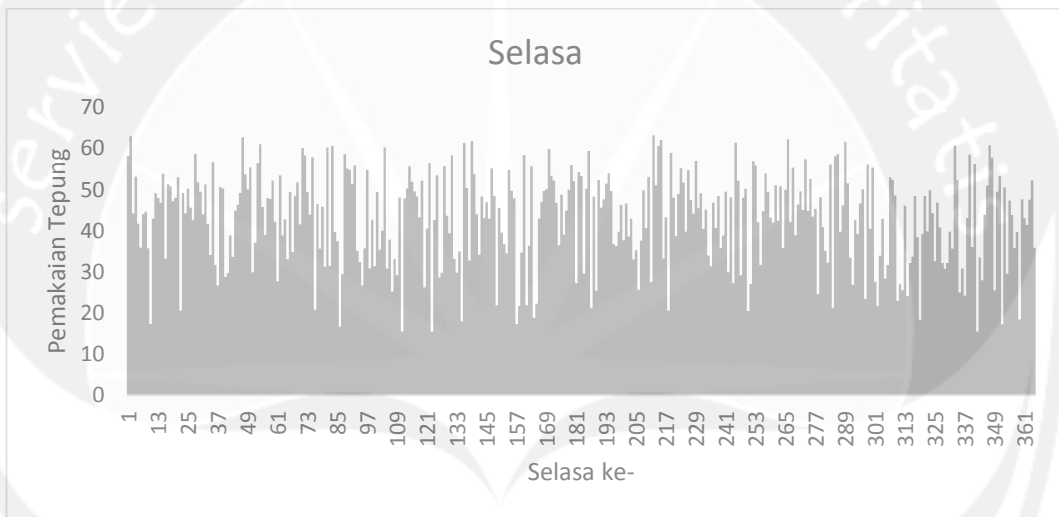
| Bulan | No. | Hari | B. Random | Senin | Selasa | Rabu | Kamis | Jumat | Sabtu | Demand (sak) |
|---------------|-----|--------|-----------|--------------------|--------------------|-----------------------|-----------------------------|--------------------|---------------------|--------------|
| | | | | TRIA(22, 61.9, 69) | TRIA(12, 52.2, 64) | 14 + GAMM(9.87, 2.32) | 12 + 58 * BETA(1.5, 1, 1.2) | TRIA(15, 53.3, 66) | 3 + GAMM(6.41, 2.6) | |
| Januari 2013 | 1 | Selasa | 0.69 | | 49.9058 | | | | | 50 |
| | 2 | Rabu | 0.86 | | | 44.65251 | | | | 45 |
| | 3 | Kamis | 0.43 | | | | 41.85948 | | | 42 |
| | 4 | Jumat | 0.43 | | | | | 43.8966 | | 44 |
| | 5 | Sabtu | 0.07 | | | | | | 11.0879 | 11 |
| | 6 | Minggu | 0.17 | | | | | | | 0 |
| | 7 | Senin | 0.73 | 58.992 | | | | | | 59 |
| | 8 | Selasa | 0.99 | | 61.7938 | | | | | 62 |
| | 9 | Rabu | 0.8 | | | 42.70028 | | | | 43 |
| | 10 | Kamis | 0.46 | | | | 43.21106 | | | 43 |
| | 11 | Jumat | 0.29 | | | | | 38.8056 | | 39 |
| | 12 | Sabtu | 0.71 | | | | | | 22.5459 | 23 |
| | 13 | Minggu | 0.18 | | | | | | | 0 |
| | 14 | Senin | 0.3 | 45.87 | | | | | | 46 |
| | 15 | Selasa | 0.61 | | 47.6672 | | | | | 48 |
| | 16 | Rabu | 0.93 | | | 48.25674 | | | | 48 |
| | 17 | Kamis | 0.57 | | | | 48.4483 | | | 48 |
| | 18 | Jumat | 0.61 | | | | | 49.6447 | | 50 |
| | 19 | Sabtu | 0.32 | | | | | | 16.0744 | 16 |
| | 20 | Minggu | 0.38 | | | | | | | 0 |
| | 21 | Senin | 0.06 | 32.3608 | | | | | | 32 |
| | 22 | Selasa | 0.35 | | 38.9264 | | | | | 39 |
| | 23 | Rabu | 0.06 | | | 26.93705 | | | | 27 |
| | 24 | Kamis | 0.9 | | | | 64.10867 | | | 64 |
| | 25 | Jumat | 0.04 | | | | | 23.5847 | | 24 |
| | 26 | Sabtu | 0.75 | | | | | | 23.4968 | 23 |
| | 27 | Minggu | 0.38 | | | | | | | 0 |
| | 28 | Senin | 0.61 | 55.7907 | | | | | | 56 |
| | 29 | Selasa | 0.8 | | 52.8611 | | | | | 53 |
| | 30 | Rabu | 0.93 | | | 48.63577 | | | | 49 |
| | 31 | Kamis | 0.86 | | | | 62.10555 | | | 62 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Desember 2013 | 8 | Minggu | 0.33 | | | | | | | 0 |
| | 9 | Senin | 0.2 | 41.2941 | | | | | | 41 |
| | 10 | Selasa | 0.22 | | 33.5909 | | | | | 34 |
| | 11 | Rabu | 0.5 | | | 36.05099 | | | | 36 |
| | 12 | Kamis | 0.31 | | | | 35.53826 | | | 36 |
| | 13 | Jumat | 0.48 | | | | | 45.7497 | | 46 |
| | 14 | Sabtu | 0.74 | | | | | | 23.2773 | 23 |
| | 15 | Minggu | 0.61 | | | | | | | 0 |
| | 16 | Senin | 0.33 | 46.8724 | | | | | | 47 |
| | 17 | Selasa | 0.34 | | 38.5353 | | | | | 39 |
| | 18 | Rabu | 0.34 | | | 33.39102 | | | | 33 |
| | 19 | Kamis | 0.04 | | | | 17.57367 | | | 18 |
| | 20 | Jumat | 0.54 | | | | | 47.532 | | 48 |
| | 21 | Sabtu | 0.93 | | | | | | 29.89 | 30 |
| | 22 | Minggu | 0.74 | | | | | | | 0 |
| | 23 | Senin | 0.54 | 53.7798 | | | | | | 54 |
| | 24 | Selasa | 0.95 | | 58.2564 | | | | | 58 |
| | 25 | Rabu | 0.32 | | | 32.94525 | | | | 33 |
| | 26 | Kamis | 0.19 | | | | 28.90414 | | | 29 |
| | 27 | Jumat | 0.17 | | | | | 33.2294 | | 33 |
| | 28 | Sabtu | 0.87 | | | | | | 26.976 | 27 |
| | 29 | Minggu | 0.05 | | | | | | | 0 |
| | 30 | Senin | 0.65 | 57.0155 | | | | | | 57 |
| | 31 | Selasa | 0.72 | | 50.7185 | | | | | 51 |

| P. Akhir (sak) | ROP : 200 | | | Tingkat Persediaan : 900 | | | B. Transp ort (Rp) | B. Simpan (Rp) | B. Krg (Rp) | T. Biaya Persediaan (Rp) |
|----------------|-----------|------------|------------------|--------------------------|-------------------|---------------|--------------------|----------------|-------------|--------------------------|
| | Pes an | B. Ran dom | Lead Time (hari) | Tepung Masuk (sak) | B. Pembelian (Rp) | B. Pesan (Rp) | | | | |
| 850 | t | 0 | 0 | 900 | 149,589,000 | 0 | 0 | 28,062 | 0 | 149,617,062 |
| 805 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,577 | 0 | 26,577 |
| 763 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,190 | 0 | 25,190 |
| 719 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,737 | 0 | 23,737 |
| 708 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,374 | 0 | 23,374 |
| 708 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,374 | 0 | 23,374 |
| 649 | t | 0 | 0 | 0 | 0 | 0 | 0 | 21,426 | 0 | 21,426 |
| 587 | t | 0 | 0 | 0 | 0 | 0 | 0 | 19,379 | 0 | 19,379 |
| 544 | t | 0 | 0 | 0 | 0 | 0 | 0 | 17,960 | 0 | 17,960 |
| 501 | t | 0 | 0 | 0 | 0 | 0 | 0 | 16,540 | 0 | 16,540 |
| 462 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,253 | 0 | 15,253 |
| 439 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,493 | 0 | 14,493 |
| 439 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,493 | 0 | 14,493 |
| 393 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,975 | 0 | 12,975 |
| 345 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,390 | 0 | 11,390 |
| 297 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,805 | 0 | 9,805 |
| 249 | t | 0 | 0 | 0 | 0 | 0 | 0 | 8,221 | 0 | 8,221 |
| 199 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,570 | 0 | 6,570 |
| 183 | p | 0.95 | 3 | 0 | 0 | 1,000 | 0 | 6,042 | 0 | 7,042 |
| 183 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,042 | 0 | 6,042 |
| 151 | t | 0 | 0 | 0 | 0 | 0 | 0 | 4,985 | 0 | 4,985 |
| 112 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,698 | 0 | 3,698 |
| 802 | t | 0 | 0 | 717 | 149,589,000 | 0 | 606,100 | 26,477 | 0 | 150,221,577 |
| 738 | t | 0 | 0 | 0 | 0 | 0 | 0 | 24,365 | 0 | 24,365 |
| 714 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,572 | 0 | 23,572 |
| 691 | t | 0 | 0 | 0 | 0 | 0 | 0 | 22,813 | 0 | 22,813 |
| 691 | t | 0 | 0 | 0 | 0 | 0 | 0 | 22,813 | 0 | 22,813 |
| 635 | t | 0 | 0 | 0 | 0 | 0 | 0 | 20,964 | 0 | 20,964 |
| 582 | t | 0 | 0 | 0 | 0 | 0 | 0 | 19,214 | 0 | 19,214 |
| 533 | t | 0 | 0 | 0 | 0 | 0 | 0 | 17,597 | 0 | 17,597 |
| 471 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,550 | 0 | 15,550 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 428 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,130 | 0 | 14,130 |
| 387 | t | 0 | 0 | 0 | 0 | 0 | 0 | 12,777 | 0 | 12,777 |
| 353 | t | 0 | 0 | 0 | 0 | 0 | 0 | 11,654 | 0 | 11,654 |
| 317 | t | 0 | 0 | 0 | 0 | 0 | 0 | 10,466 | 0 | 10,466 |
| 281 | t | 0 | 0 | 0 | 0 | 0 | 0 | 9,277 | 0 | 9,277 |
| 235 | t | 0 | 0 | 0 | 0 | 0 | 0 | 7,758 | 0 | 7,758 |
| 212 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,999 | 0 | 6,999 |
| 212 | t | 0 | 0 | 0 | 0 | 0 | 0 | 6,999 | 0 | 6,999 |
| 165 | t | 0 | 0 | 0 | 0 | 0 | 0 | 5,447 | 0 | 5,447 |
| 126 | p | 0.46 | 2 | 0 | 0 | 1,000 | 0 | 4,160 | 0 | 5,160 |
| 93 | t | 0 | 0 | 0 | 0 | 0 | 0 | 3,070 | 0 | 3,070 |
| 849 | t | 0 | 0 | 774 | 149,589,000 | 0 | 651,700 | 28,029 | 0 | 150,268,729 |
| 801 | t | 0 | 0 | 0 | 0 | 0 | 0 | 26,444 | 0 | 26,444 |
| 771 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,454 | 0 | 25,454 |
| 771 | t | 0 | 0 | 0 | 0 | 0 | 0 | 25,454 | 0 | 25,454 |
| 717 | t | 0 | 0 | 0 | 0 | 0 | 0 | 23,671 | 0 | 23,671 |
| 659 | t | 0 | 0 | 0 | 0 | 0 | 0 | 21,756 | 0 | 21,756 |
| 626 | t | 0 | 0 | 0 | 0 | 0 | 0 | 20,667 | 0 | 20,667 |
| 597 | t | 0 | 0 | 0 | 0 | 0 | 0 | 19,710 | 0 | 19,710 |
| 564 | t | 0 | 0 | 0 | 0 | 0 | 0 | 18,620 | 0 | 18,620 |
| 537 | t | 0 | 0 | 0 | 0 | 0 | 0 | 17,729 | 0 | 17,729 |
| 537 | t | 0 | 0 | 0 | 0 | 0 | 0 | 17,729 | 0 | 17,729 |
| 480 | t | 0 | 0 | 0 | 0 | 0 | 0 | 15,847 | 0 | 15,847 |
| 429 | t | 0 | 0 | 0 | 0 | 0 | 0 | 14,163 | 0 | 14,163 |

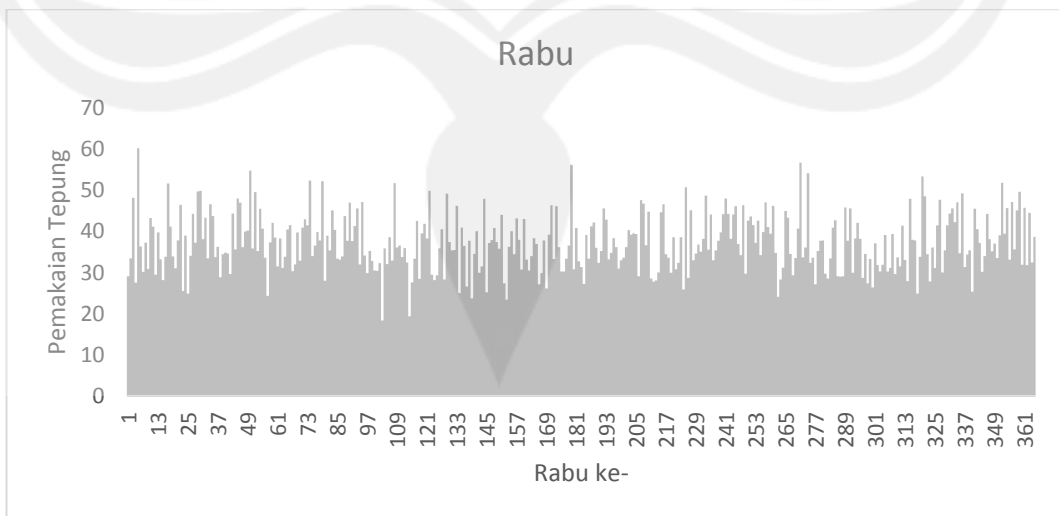
Lampiran 16: Grafik Pemakaian Tepung Hari Senin, Selasa, dan Rabu



Grafik Pemakaian Tepung Hari Senin

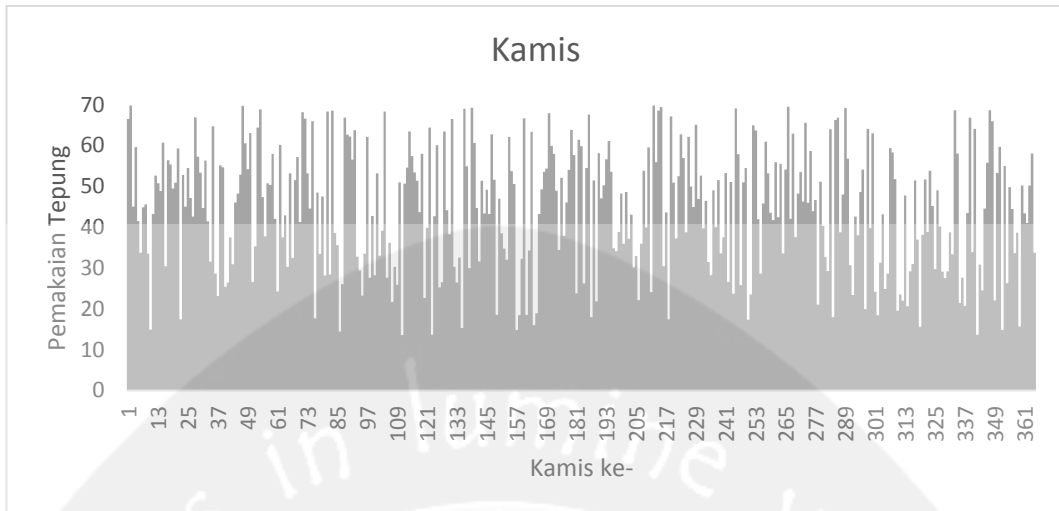


Grafik Pemakaian Tepung Hari Selasa

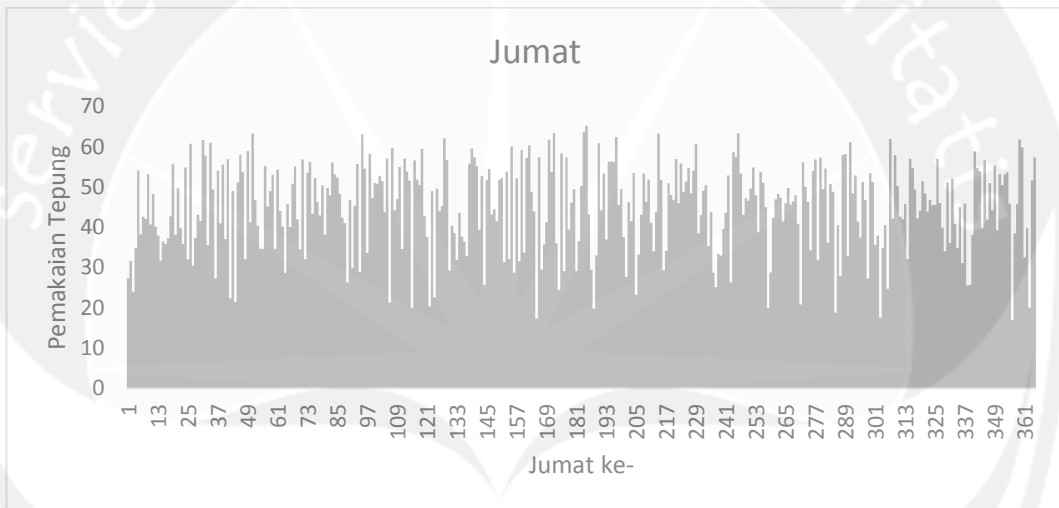


Grafik Pemakaian Tepung Hari Rabu

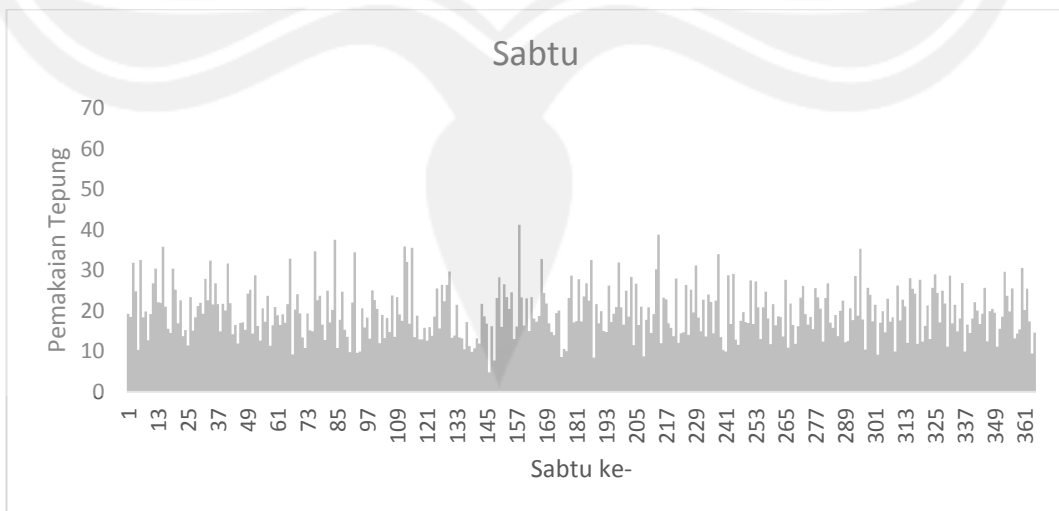
Lampiran 17: Grafik Pemakaian Tepung Hari Kamis, Jumat, dan Sabtu



Grafik Pemakaian Tepung Hari Kamis



Grafik Pemakaian Tepung Hari Jumat



Grafik Pemakaian Tepung Hari Sabtu



MINANG JAYA

FOOD INDUSTRY

Jl. Kandis III No. 6 RT. 03 RW. V Nanggalo Siteba 25143
Telp. (0751) 7053587, 7053765, Fax. (0751) 7059575
Padang - Sumatera Barat

SURAT KETERANGAN

Yang bertanda tangan di bawah ini Direktur UD Minang Jaya, menerangkan dengan sebenarnya bahwa:

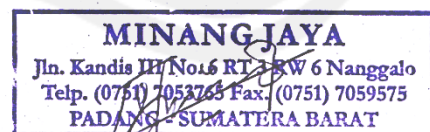
Nama: : SISKA TRISTANTI SUTJIADI
Jenis Kelamin : Perempuan
No. Induk Mahasiswa : 10 06 06269
Asal Sekolah : UNIVERSITAS ATMA JAYA YOGYAKARTA
Jurusan : TEKNIK INDUSTRI

Telah melaksanakan riset dan pengambilan data-data yang diperlukan di UD Minang Jaya, untuk melakukan penyusunan laporan tugas akhir.

Demikian surat keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

Padang, 13 Desember 2013

UD Minang Jaya



BISMAN

Direktur