

BAB 6

KESIMPULAN DAN SARAN

6.1. Kesimpulan

Berdasarkan hasil penelitian mengenai sistem persediaan bahan baku di UD MAJU JAYA Cilacap, maka dapat ditarik beberapa kesimpulan sebagai berikut :

- a. Jumlah pemasukan ikan yang optimal adalah 2000kg, dengan periode pemasukan 7 harian didapatkan total biaya minimal Rp. 542.447.496,00.
- b. Jumlah pemasukan udang yang optimal adalah 200 kg, dengan tingkat reorder point kurang dari 135 kg didapatkan total biaya minimal Rp. 300.987.405,00.

6.2. Saran

UD MAJU JAYA Cilacap belum menggunakan metode yang tepat dalam menganalisa sistem pengadaan bahan baku, maka diusulkan untuk menggunakan pendekatan sistem dinamis dengan bantuan *software* POWERSIM dalam menganalisa persediaan bahan baku.

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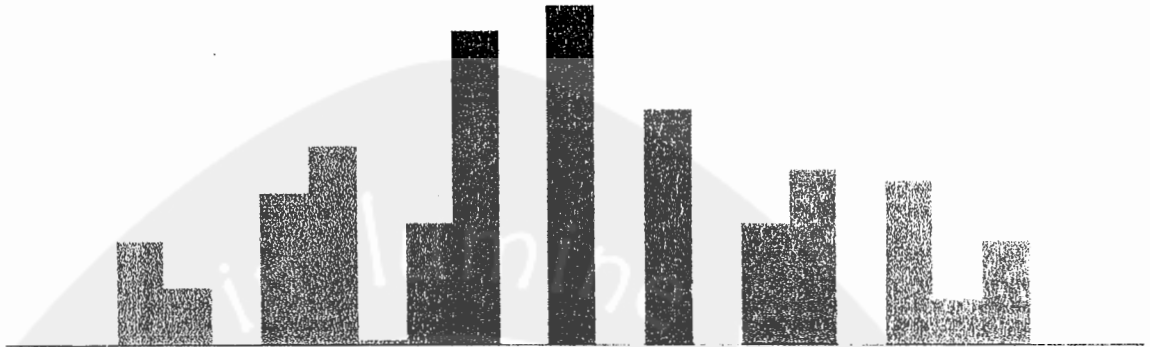
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HASIL UJI DISTRIBUSI PEMAKAIAN IKAN



Distribution Summary

Distribution: Normal
Expression: NORM(250, 50.9)
Square Error: 0.043533

Chi Square Test

Number of intervals = 17
Degrees of freedom = 14
Test Statistic = 274
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.0512
Corresponding p-value > 0.15

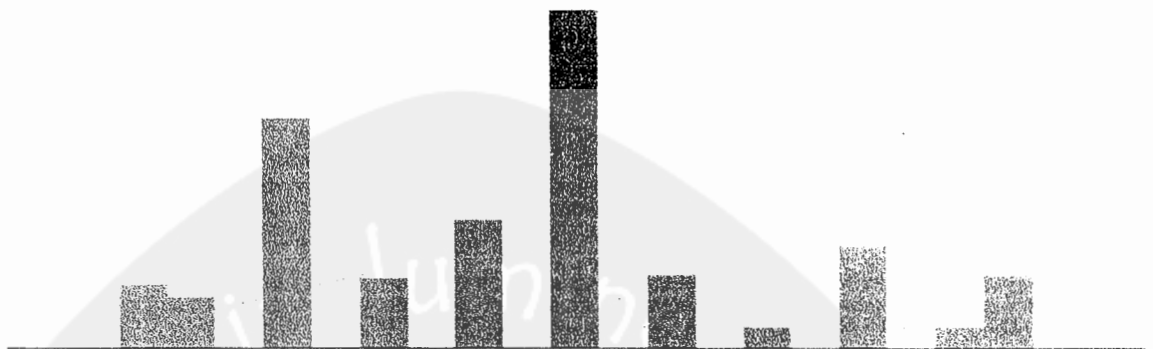
Data Summary

Number of Data Points = 365
Min Data Value = 150
Max Data Value = 350
Sample Mean = 250
Sample Std Dev = 51

Histogram Summary

Histogram Range = 150 to 350
Number of Intervals = 19

HASIL UJI DISTRIBUSI PEMAKAIAN UDANG



Distribution Summary

Distribution: Normal
Expression: NORM(125, 25.9)
Square Error: 0.100906

Chi Square Test

Number of intervals = 16
Degrees of freedom = 13
Test Statistic = 593
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.0729
Corresponding p-value = 0.0411

Data Summary

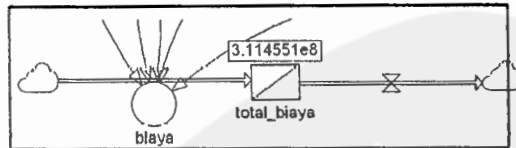
Number of Data Points = 365
Min Data Value = 80
Max Data Value = 180
Sample Mean = 125
Sample Std Dev = 26

Histogram Summary

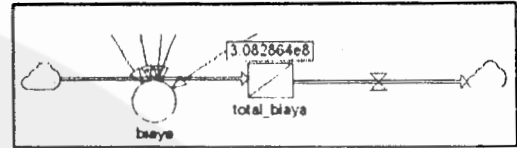
Histogram Range = 80 to 180
Number of Intervals = 19



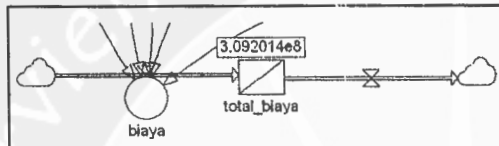
Replikasi simulasi sistem persediaan udang, pemasukan 1 hari sekali 132kg



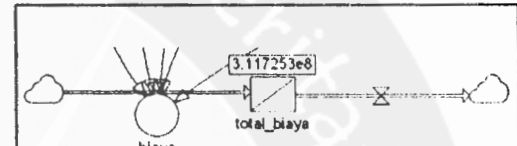
Total biaya:
Rp 311.455.108,00
Jumlah kekurangan:
1.196,52 kg



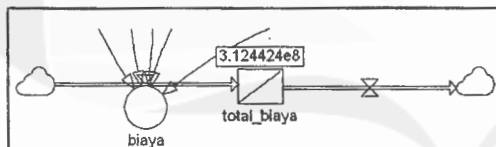
Total biaya:
Rp 308.286.442,00
Jumlah Kekurangan:
1.134,755 kg



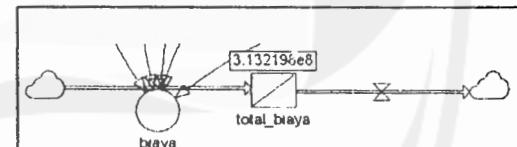
Total biaya:
Rp 309.201.439,00
Jumlah kekurangan:
1.080,061 kg



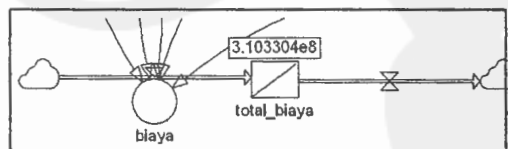
Total biaya:
Rp 311.725.252,00
Jumlah Kekurangan:
1.173,610 kg



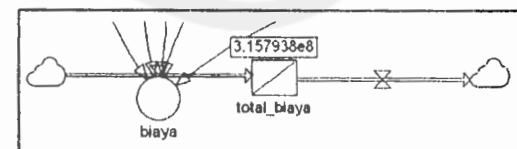
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Jumlah kekurangan:
1.253,123 kg



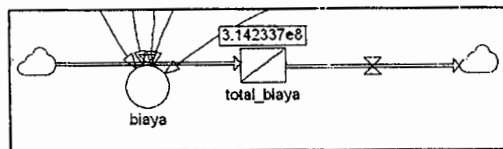
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Jumlah Kekurangan:
1.036,768 kg



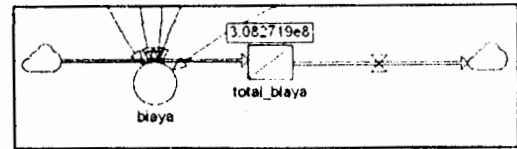
Total biaya:
Rp 310.330.362,00
Jumlah kekurangan:
1.105,421 kg



Total biaya:
Rp 315.793.784,00
Jumlah Kekurangan:
1.211,230 kg



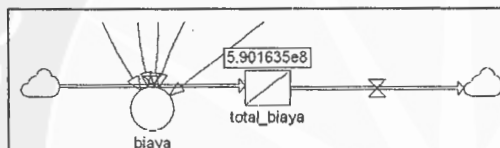
Total biaya:
Rp 314.233.628,00
Jumlah kekurangan:
1.058,553 kg



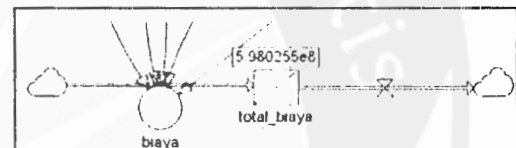
Total biaya:
Rp 308.271.891,00
Jumlah Kekurangan:
1.235,691 kg

Rata-rata total biaya = Rp 311.496.012,00
Rata-rata kekurangan per hari = 1.148,574 kg

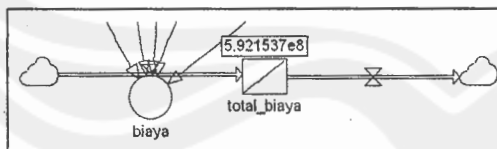
Replikasi simulasi sistem persediaan udang, pemasukan 1 hari sekali 200kg



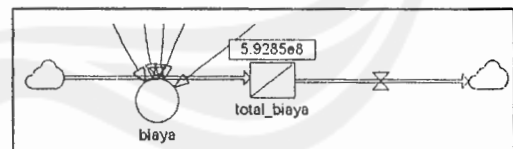
Total biaya:
Rp 590.163.510,00
Jumlah kekurangan:
173,771 kg



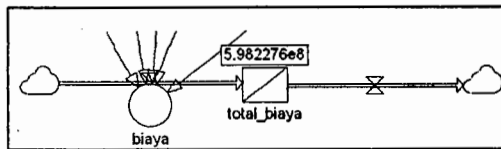
Total biaya:
Rp 598.025.471,00
Jumlah Kekurangan:
211,405 kg



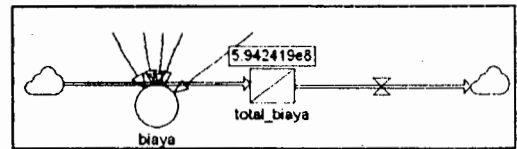
Total biaya:
Rp 592.153.730,00
Jumlah kekurangan:
211,273 kg



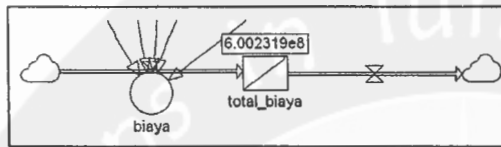
Total biaya:
Rp 592.849.993,00
Jumlah Kekurangan:
181,173 kg



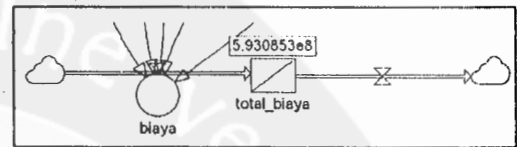
Total biaya:
Rp 598.227.618,00
Jumlah kekurangan:
176,803 kg



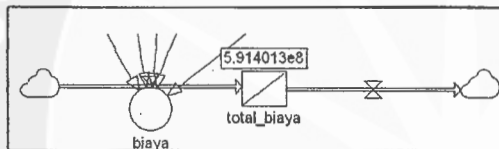
Total biaya:
Rp 594.241.940,00
Jumlah Kekurangan:
170,939 kg



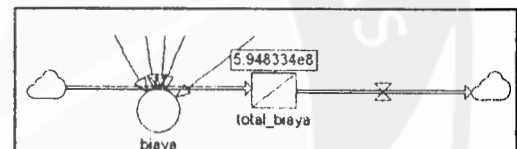
Total biaya:
Rp 600.231.893,00
Jumlah kekurangan:
175,959 kg



Total biaya:
Rp 593.085.342,00
Jumlah Kekurangan:
193,473 kg



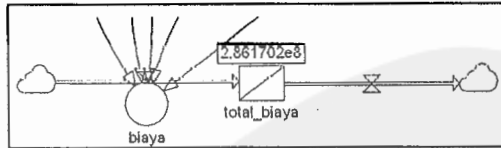
Total biaya:
Rp 591.401.255,00
Jumlah kekurangan:
208,446 kg



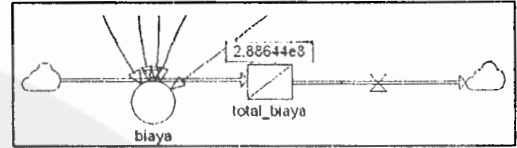
Total biaya:
Rp 594.833.425,00
Jumlah Kekurangan:
168,900 kg

Rata-rata total biaya = Rp 594.521.417,00
Rata-rata kekurangan per hari = 187,214 kg

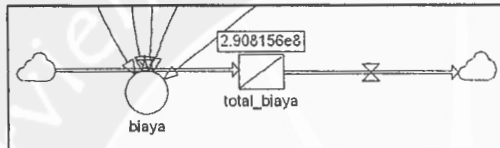
Replikasi simulasi sistem persediaan udang, pemasukan 2 hari sekali 200kg



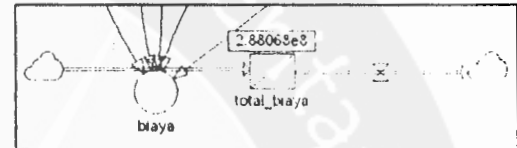
Total biaya:
Rp 286.170.159,00
Jumlah kekurangan:
10.795,528 kg



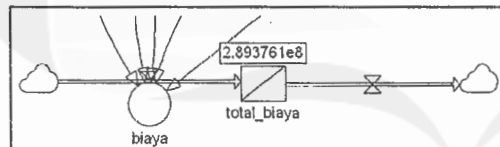
Total biaya:
Rp 288.644.013,00
Jumlah Kekurangan:
11.238,859 kg



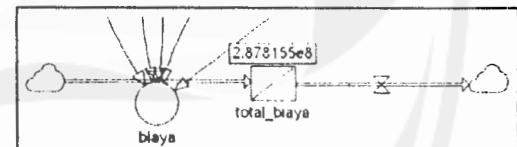
Total biaya:
Rp 290.815.622,00
Jumlah kekurangan:
11.626,737 kg



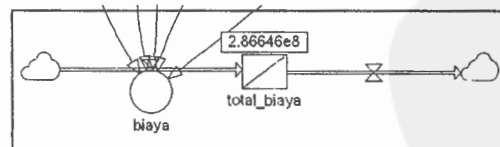
Total biaya:
Rp 288.068.030,00
Jumlah Kekurangan:
11.132,911 kg



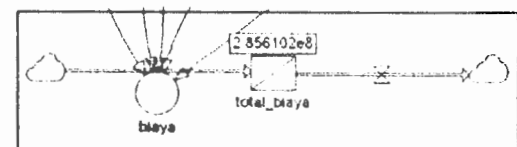
Total biaya:
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Jumlah kekurangan:
11.368,463 kg



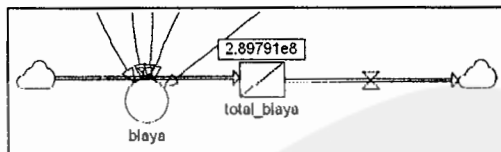
Total biaya:
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Jumlah Kekurangan:
11.088,179 kg



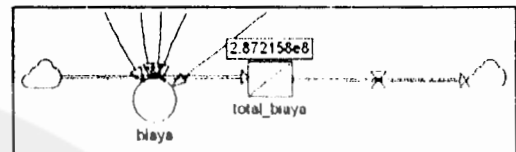
Total biaya:
Rp 286.646.036,00
Jumlah kekurangan:
10.879,736 kg



Total biaya:
Rp 285.610.198,00
Jumlah Kekurangan:
10.697,669 kg



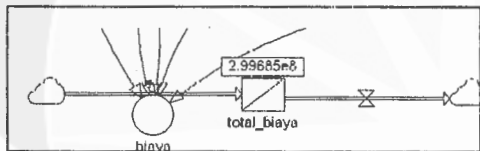
Total biaya:
Rp 289.790.975,00
Jumlah kekurangan:
11.443,377 kg



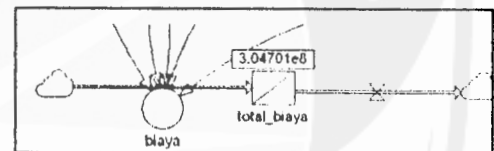
Total biaya:
Rp 287.215.797,00
Jumlah Kekurangan:
10.978,883 kg

Rata-rata total biaya = Rp 288.015.250,00
Rata-rata kekurangan per hari = 11.125,034 kg

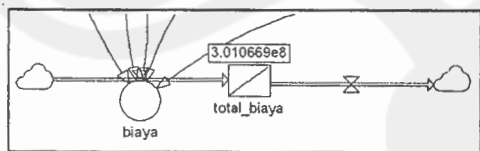
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 95 kg



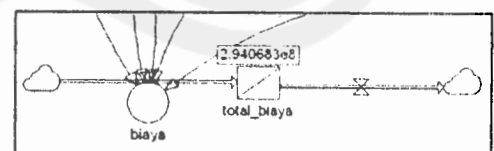
Total biaya:
Rp 299.684.960,00
Jumlah kekurangan:
1.739,531 kg



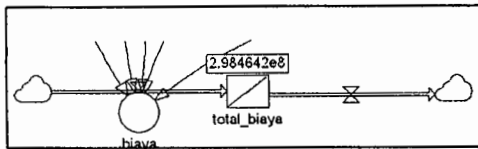
Total biaya:
Rp 304.700.988,00
Jumlah Kekurangan:
1.367,692 kg



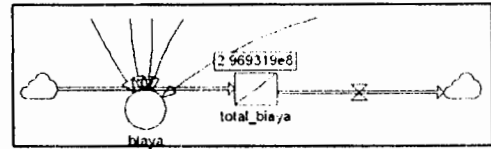
Total biaya:
Rp 301.066.906,00
Jumlah kekurangan:
1.598,066 kg



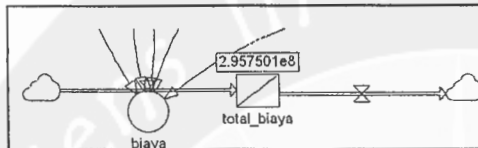
Total biaya:
Rp 294.068.251,00
Jumlah Kekurangan:
1.478,691 kg



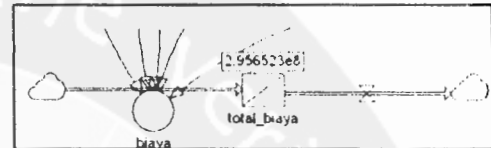
Total biaya:
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Jumlah kekurangan:
1.691,653 kg



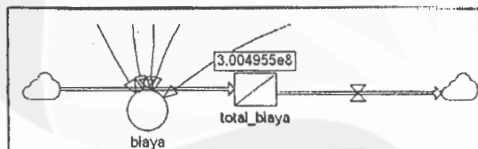
Total biaya:
Rp 296.931.932,00
Jumlah Kekurangan:
1.401,355 kg



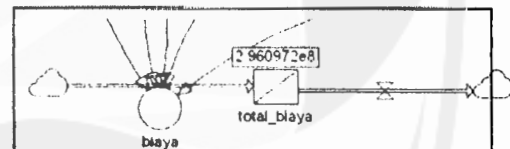
Total biaya:
Rp 295.750.105,00
Jumlah kekurangan:
1.648,087 kg



Total biaya:
Rp 295.652.256,00
Jumlah Kekurangan:
1.298,041 kg



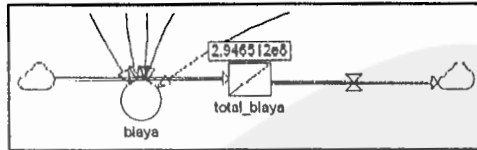
Total biaya:
Rp 300.495.492,00
Jumlah kekurangan:
1.489,876 kg



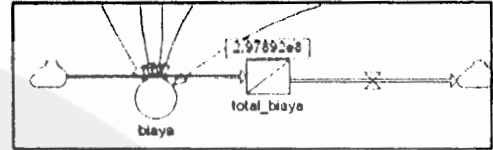
Total biaya:
Rp 296.097.196,00
Jumlah Kekurangan:
1.614,193 kg

Rata-rata total biaya = Rp 298.291.229,00
Rata-rata kekurangan per hari = 1.532,719 kg

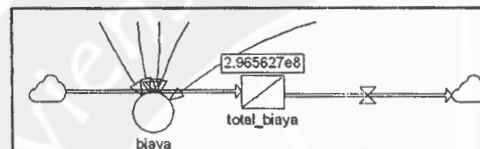
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 105 kg



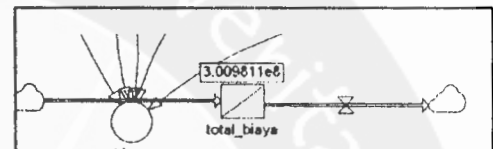
Total biaya:
Rp 294.651.204,00
Jumlah kekurangan:
920,171 kg



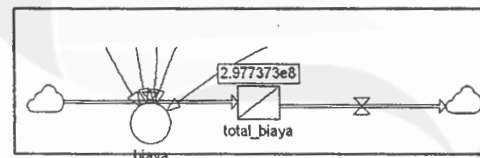
Total biaya:
Rp 297.891.950,00
Jumlah Kekurangan:
997,587 kg



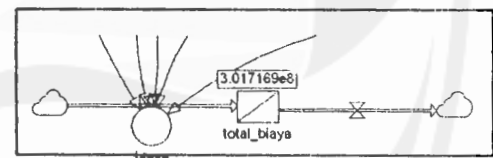
Total biaya:
Rp 296.562.743,00
Jumlah kekurangan:
972,014 kg



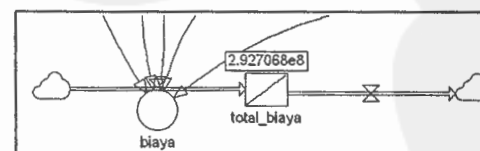
Total biaya:
Rp 300.981.062,00
Jumlah Kekurangan:
859,632 kg



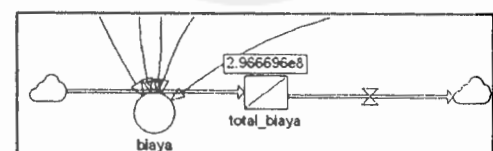
Total biaya:
Rp 297.737.306,00
Jumlah kekurangan:
919,109 kg



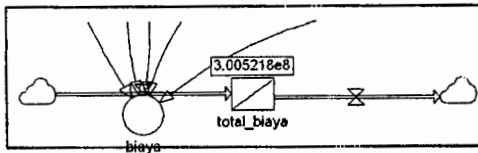
Total biaya:
Rp 301.716.854,00
Jumlah Kekurangan:
839,687 kg



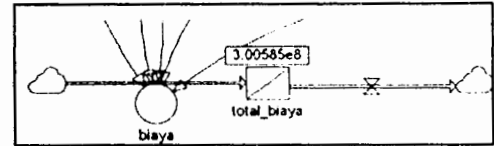
Total biaya:
Rp 292.706.810,00
Jumlah kekurangan:
771,715 kg



Total biaya:
Rp 296.669.555,00
Jumlah Kekurangan:
869,084 kg



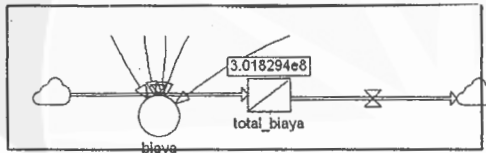
Total biaya:
Rp 306.521.816,00
Jumlah kekurangan:
1011,066 kg



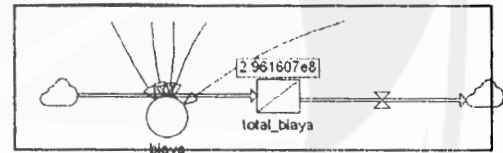
Total biaya:
Rp 300.585.008,00
Jumlah Kekurangan:
945,399 kg

Rata-rata total biaya = Rp 298.602.430,00
Rata-rata kekurangan per hari = 910,546 kg

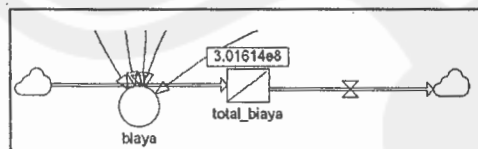
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 115 kg



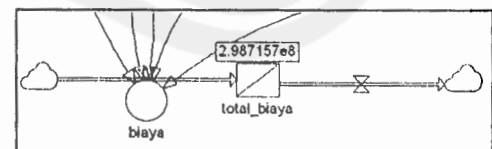
Total biaya:
Rp 301.829.374,00
Jumlah kekurangan:
586,307 kg



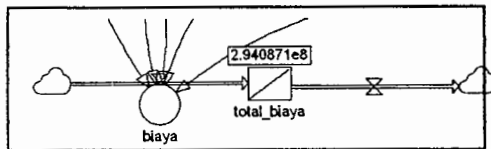
Total biaya:
Rp 296.160.662,00
Jumlah Kekurangan:
571,836 kg



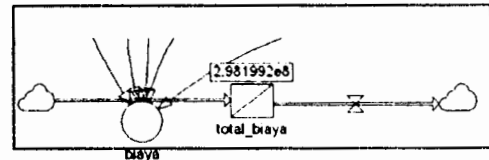
Total biaya:
Rp 301.614.045,00
Jumlah kekurangan:
581,185 kg



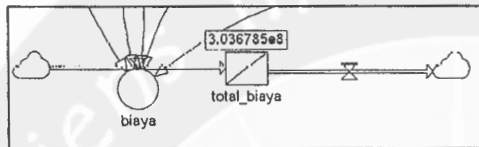
Total biaya:
Rp 298.715.717,00
Jumlah Kekurangan:
599,493 kg



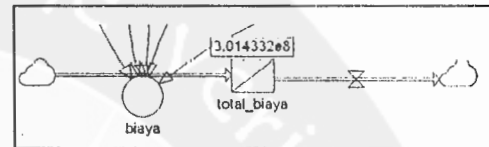
Total biaya:
Rp 294.087.075,00
Jumlah kekurangan:
535,201 kg



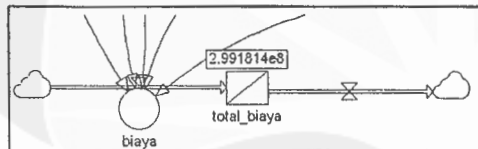
Total biaya:
Rp 298.199.234,00
Jumlah Kekurangan:
597,518 kg



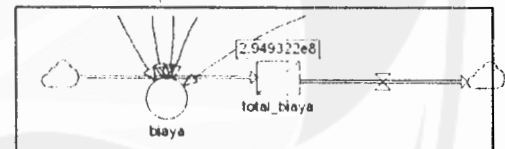
Total biaya:
Rp 303.678.515,00
Jumlah kekurangan:
564,648 kg



Total biaya:
Rp 301.433.190,00
Jumlah Kekurangan:
526,446 kg



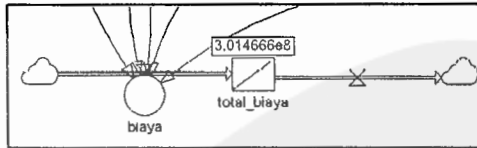
Total biaya:
Rp 299.181.419,00
Jumlah kekurangan:
557,252 kg



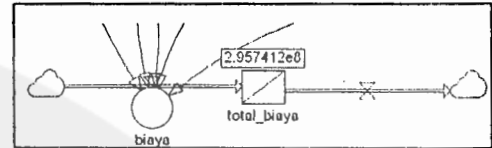
Total biaya:
Rp 294.932.229,00
Jumlah Kekurangan:
640,602 kg

Rata-rata total biaya = Rp 298.983.146,00
Rata-rata kekurangan per hari = 576,049 kg

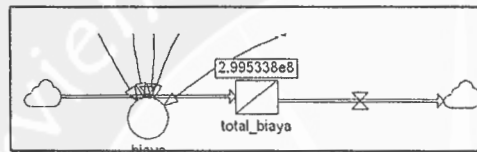
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 125 kg



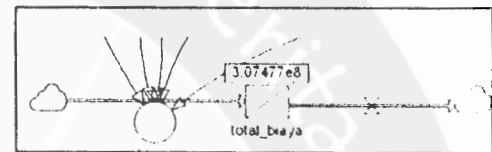
Total biaya:
Rp 301.466.610,00
Jumlah kekurangan:
319,379 kg



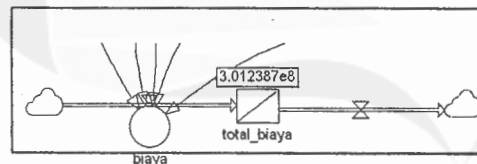
Total biaya:
Rp 295.741.156,00
Jumlah Kekurangan:
327,396 kg



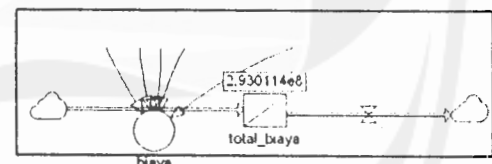
Total biaya:
Rp 299.533.774,00
Jumlah kekurangan:
277,671 kg



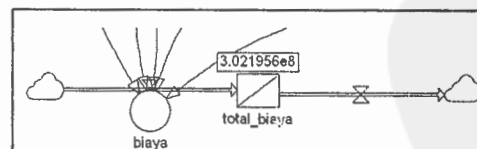
Total biaya:
Rp 307.477.016,00
Jumlah Kekurangan:
288,187 kg



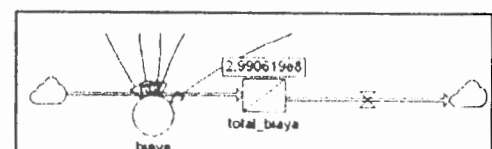
Total biaya:
Rp 301.238.710,00
Jumlah kekurangan:
286,633 kg



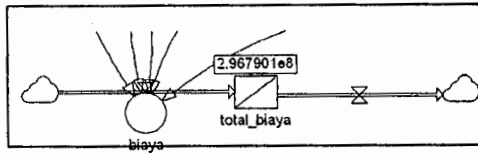
Total biaya:
Rp 293.011.410,00
Jumlah Kekurangan:
274,862 kg



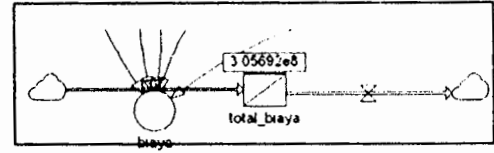
Total biaya:
Rp 302.195.610,00
Jumlah kekurangan:
307,153 kg



Total biaya:
Rp 299.061.947,00
Jumlah Kekurangan:
289,034 kg



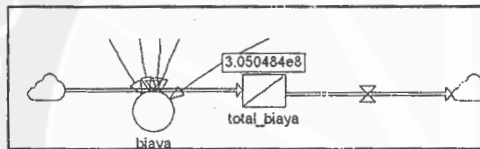
Total biaya:
 Rp 296.790.084,00
 Jumlah kekurangan:
 292,699 kg



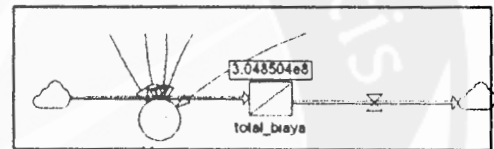
Total biaya:
 Rp 305.691.951,00
 Jumlah Kekurangan:
 297,514 kg

Rata-rata total biaya = Rp 300.220.826,00
 Rata-rata kekurangan per hari = 296,053 kg

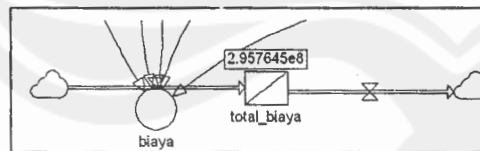
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 135 kg



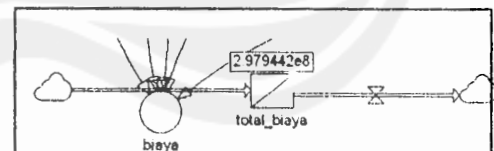
Total biaya:
 Rp 305.048.407,00
 Jumlah kekurangan:
 192,125 kg



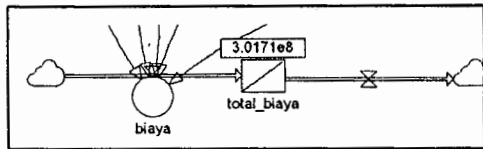
Total biaya:
 Rp 304.850.441,00
 Jumlah Kekurangan:
 172,996 kg



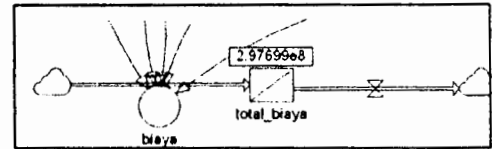
Total biaya:
 Rp 295.764.454,00
 Jumlah kekurangan:
 158,624 kg



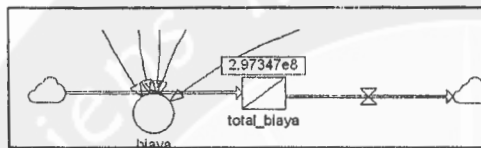
Total biaya:
 Rp 297.944.151,00
 Jumlah Kekurangan:
 163,141 kg



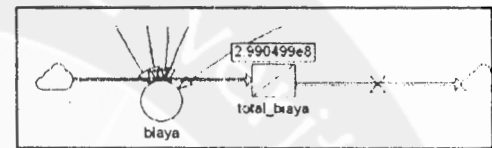
Total biaya:
Rp 301.710.031,00
Jumlah kekurangan:
192,719 kg



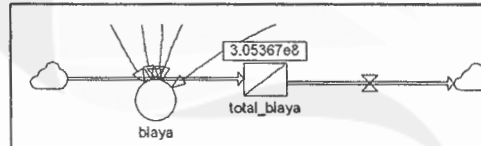
Total biaya:
Rp 297.698.999,00
Jumlah Kekurangan:
172,077 kg



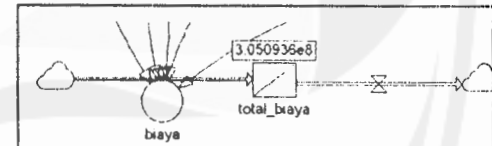
Total biaya:
Rp 297.347.036,00
Jumlah kekurangan:
173,513 kg



Total biaya:
Rp 299.049.904,00
Jumlah Kekurangan:
162,890 kg



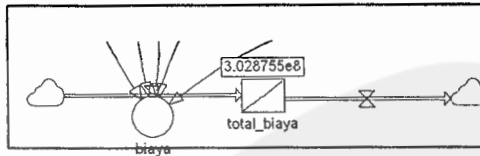
Total biaya:
Rp 305.367.046,00
Jumlah kekurangan:
150,022 kg



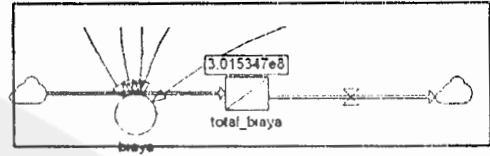
Total biaya:
Rp 305.093.583,00
Jumlah Kekurangan:
166,084 kg

Rata-rata total biaya = Rp 300.987.405,00
Rata-rata kekurangan per hari = 170,419 kg

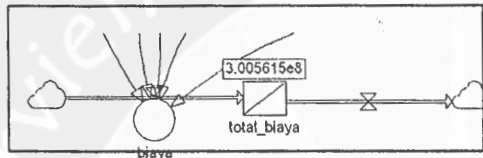
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 145 kg



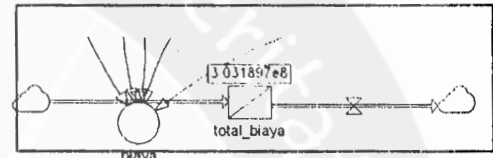
Total biaya:
Rp 302.875.501,00
Jumlah kekurangan:
67,565 kg



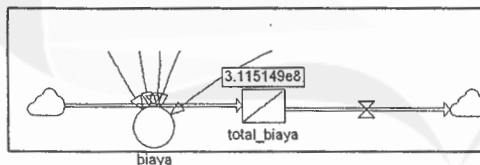
Total biaya:
Rp 301.534.706,00
Jumlah Kekurangan:
61,807 kg



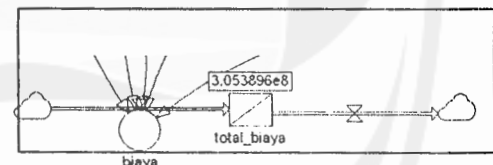
Total biaya:
Rp 300.561.528,00
Jumlah kekurangan:
74,209 kg



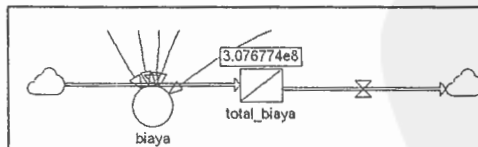
Total biaya:
Rp 303.189.696,00
Jumlah Kekurangan:
75,060 kg



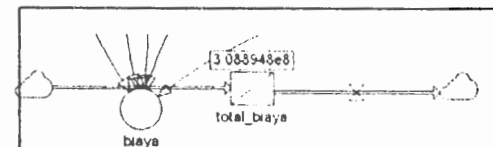
Total biaya:
Rp 311.514.857,00
Jumlah kekurangan:
71,704 kg



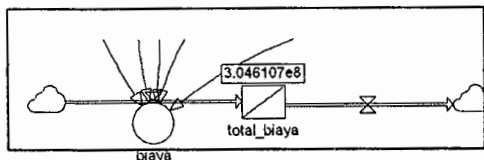
Total biaya:
Rp 305.389.610,00
Jumlah Kekurangan:
68,693 kg



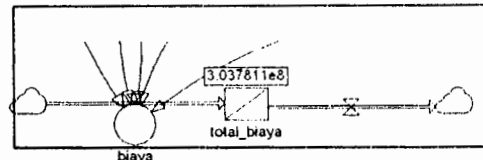
Total biaya:
Rp 307.677.429,00
Jumlah kekurangan:
63,342 kg



Total biaya:
Rp 308.894.838,00
Jumlah Kekurangan:
61,879 kg



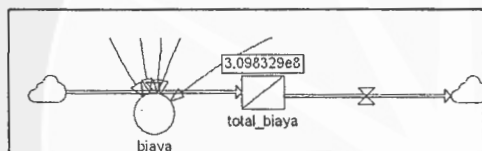
Total biaya:
Rp 304.610.723,00
Jumlah kekurangan:
86,539 kg



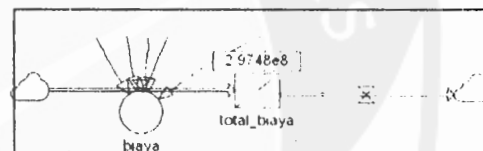
Total biaya:
Rp 303.781.076,00
Jumlah Kekurangan:
67,883 kg

Rata-rata total biaya = Rp 305.002.996,00
Rata-rata kekurangan per hari = 69,868 kg

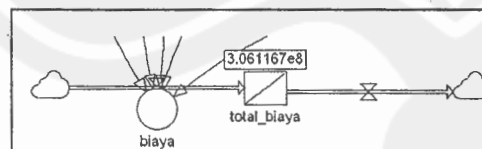
Replikasi simulasi sistem persediaan udang, pemasukan 200kg, tingkat reorder point kurang dari 155 kg



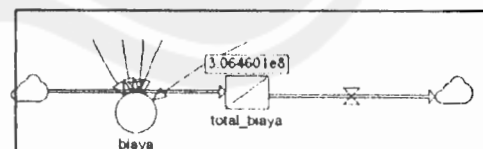
Total biaya:
Rp 309.832.915,00
Jumlah kekurangan:
39,318 kg



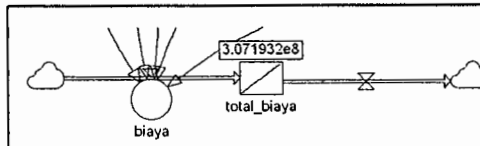
Total biaya:
Rp 297.480.047,00
Jumlah Kekurangan:
31,565 kg



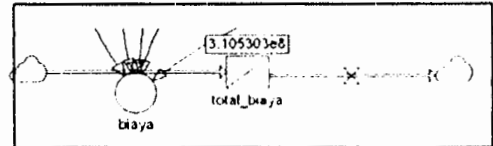
Total biaya:
Rp 306.116.670,00
Jumlah kekurangan:
35,177 kg



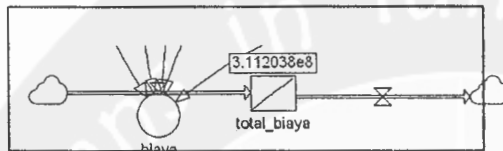
Total biaya:
Rp 306.460.112,00
Jumlah Kekurangan:
39,034 kg



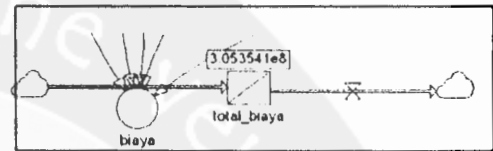
Total biaya:
 Rp 307.193.186,00
 Jumlah kekurangan:
 36,377 kg



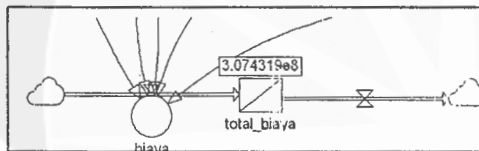
Total biaya:
 Rp 310.530.253,00
 Jumlah Kekurangan:
 32,824 kg



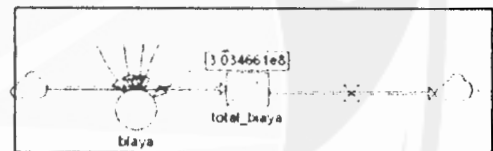
Total biaya:
 Rp 311.203.813,00
 Jumlah kekurangan:
 37,830 kg



Total biaya:
 Rp 305.354.081,00
 Jumlah Kekurangan:
 42,801 kg



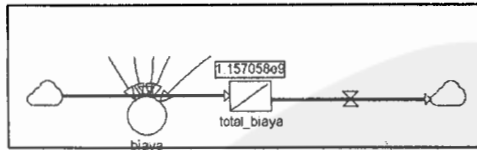
Total biaya:
 Rp 307.431.949,00
 Jumlah kekurangan:
 31,559 kg



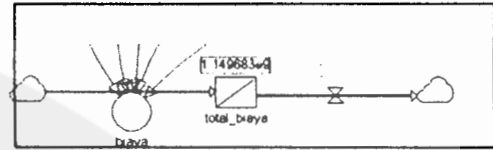
Total biaya:
 Rp 303.466.114,00
 Jumlah Kekurangan:
 43,518 kg

Rata-rata total biaya = Rp 306.506.913,00
 Rata-rata kekurangan per hari = 37,001 kg

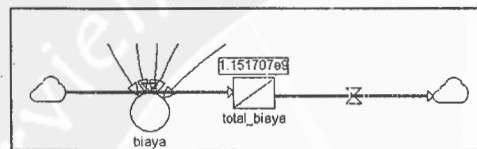
**Replikasi simulasi sistem persediaan ikan, pemasukan
1000kg, 2 hari sekali**



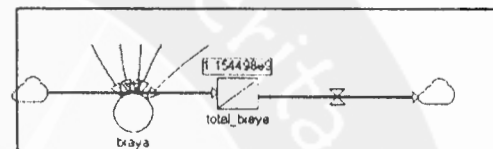
Total biaya:
Rp 1.157.058.262,00
Jumlah kekurangan:
0 kg



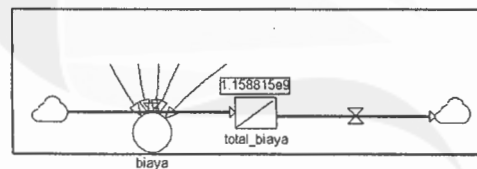
Total biaya:
Rp 1.149.683.082,00
Jumlah Kekurangan::
0 kg



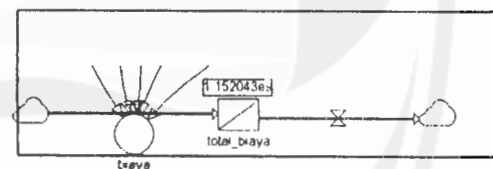
Total biaya:
Rp 1.151.706.615,00
Jumlah kekurangan:
0 kg



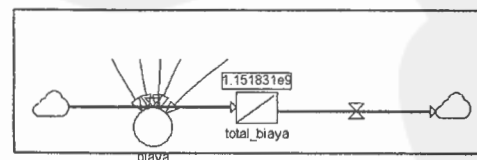
Total biaya:
Rp 1.154.497.514,00
Jumlah Kekurangan:
0 kg



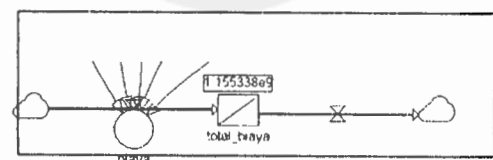
Total biaya:
Rp 1.158.814.905,00
Jumlah kekurangan:
0 kg



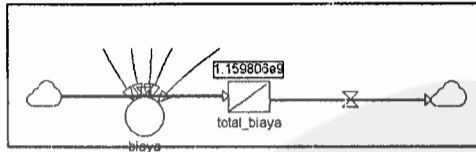
Total biaya:
Rp 1.152.042.836,00
Jumlah Kekurangan:
0 kg



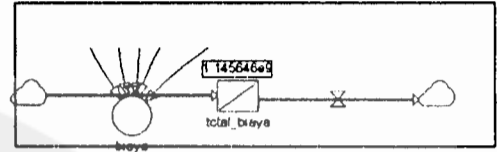
Total biaya:
Rp 1.151.830.822,00
Jumlah kekurangan:
0 kg



Total biaya:
Rp 1.155.338.463,00
Jumlah Kekurangan:
0 kg



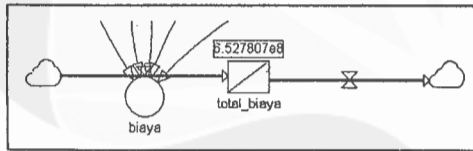
Total biaya:
Rp 1.159.805.907,00
Jumlah kekurangan:
0 kg



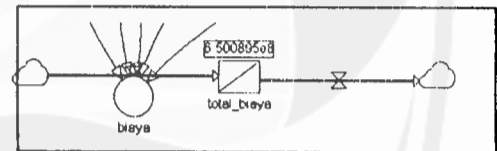
Total biaya:
Rp 1.145.646.084,00
Jumlah Kekurangan:
0 kg

Rata-rata total biaya = Rp 1.153.642.449,00
Rata-rata kekurangan per hari = 0 kg

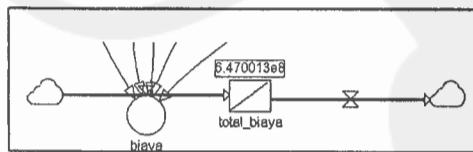
Replikasi simulasi sistem persediaan ikan, pemasukan 1000kg, 3 hari sekali



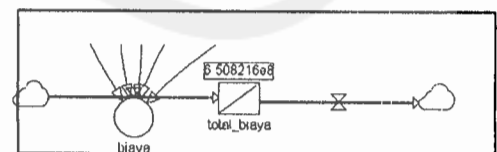
Total biaya:
Rp 652.780.735,00
Jumlah kekurangan:
0 kg



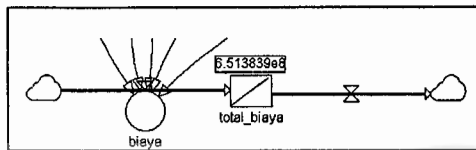
Total biaya:
Rp 650.089.490,00
Jumlah Kekurangan:
0 kg



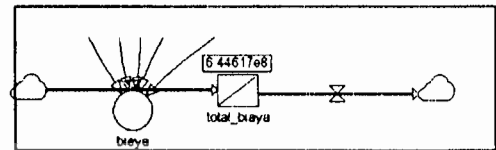
Total biaya:
Rp 647.001.335,00
Jumlah kekurangan:
0 kg



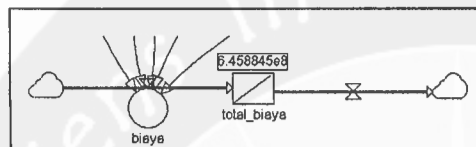
Total biaya:
Rp 650.821.595,00
Jumlah Kekurangan:
0 kg



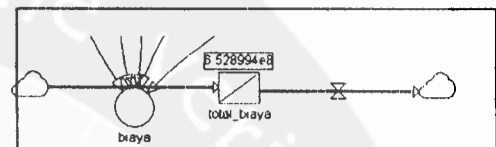
Total biaya:
Rp 651.383.899,00
Jumlah kekurangan:
0 kg



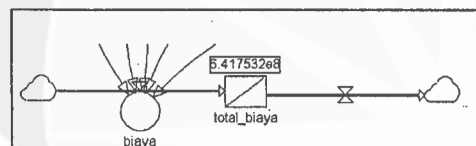
Total biaya:
Rp 644.616.981,00
Jumlah Kekurangan:
0 kg



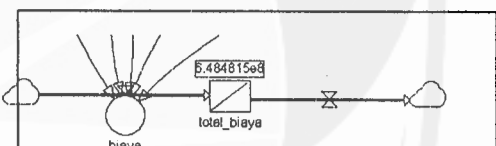
Total biaya:
Rp 645.884.462,00
Jumlah kekurangan:
0 kg



Total biaya:
Rp 652.899.414,00
Jumlah Kekurangan:
0 kg



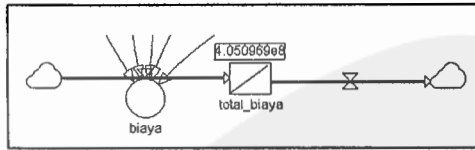
Total biaya:
Rp 641.753.174,00
Jumlah kekurangan:
0 kg



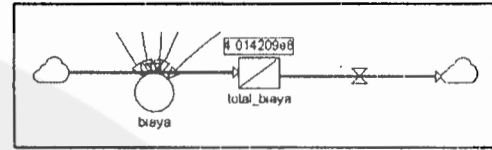
Total biaya:
Rp 648.481.534,00
Jumlah Kekurangan:
0 kg

Rata-rata total biaya = Rp 648.571.262,00
Rata-rata kekurangan per hari = 0 kg

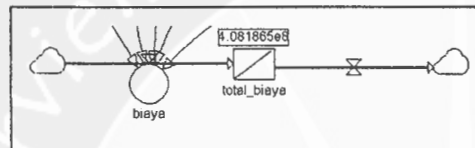
Replikasi simulasi sistem persediaan ikan, pemasukan 1000kg, 4 hari sekali



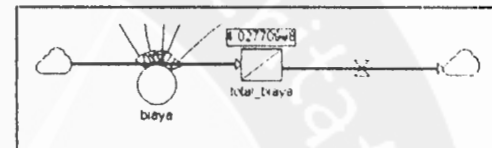
Total biaya:
Rp 405.096.920,00
Jumlah kekurangan:
1.521,231 kg



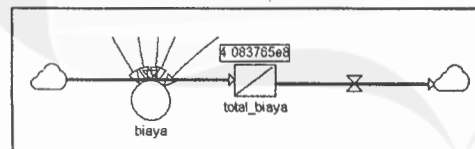
Total biaya:
Rp 401.420.947,00
Jumlah Kekurangan:
1.998,135 kg



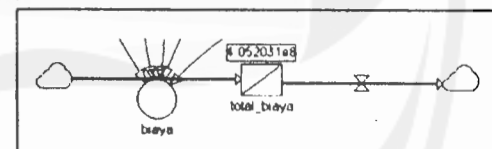
Total biaya:
Rp 408.186.498,00
Jumlah kekurangan:
2.010,112 kg



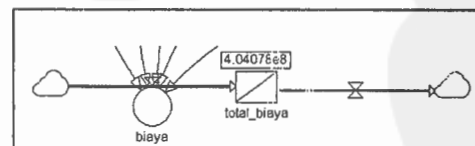
Total biaya:
Rp 402.770.921,00
Jumlah Kekurangan:
2.184,259 kg



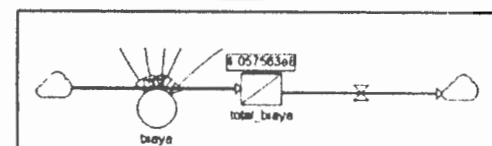
Total biaya:
Rp 408.376.501,00
Jumlah kekurangan:
1.899,723 kg



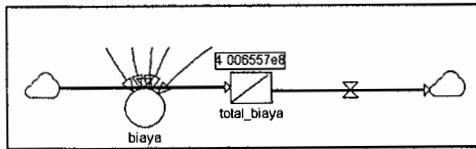
Total biaya:
Rp 405.203.135,00
Jumlah Kekurangan:
1.747,363 kg



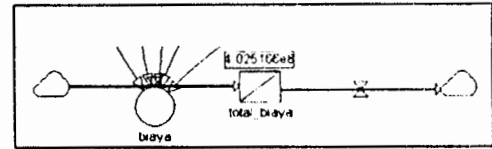
Total biaya:
Rp 404.077.960,00
Jumlah kekurangan:
2.082,335 kg



Total biaya:
Rp 405.756.284,00
Jumlah Kekurangan:
1.789,261 kg



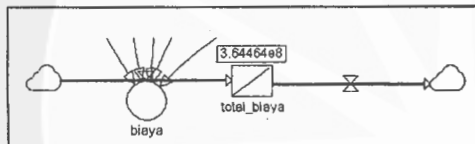
Total biaya:
 Rp 400.655.671,00
 Jumlah kekurangan:
 1.518,448 kg



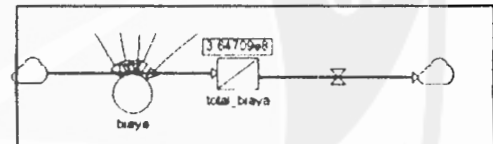
Total biaya:
 Rp 402.516.561,00
 Jumlah Kekurangan:
 2.024,672 kg

Rata-rata total biaya = Rp 404.406.140,00
 Rata-rata kekurangan per hari = 1.877,554 kg

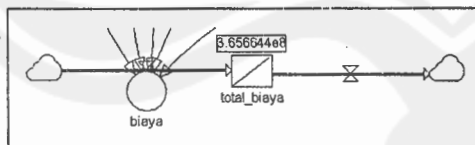
Replikasi simulasi sistem persediaan ikan, pemasukan 1000kg, 5 hari sekali



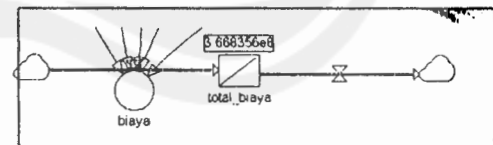
Total biaya:
 Rp 364.463.999,00
 Jumlah kekurangan:
 18.262,276 kg



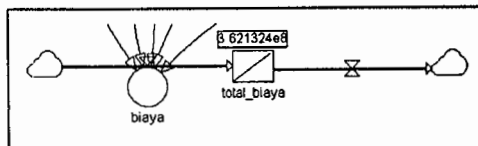
Total biaya:
 Rp 364.708.965,00
 Jumlah Kekurangan:
 17.237,872 kg



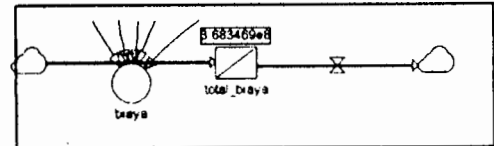
Total biaya:
 Rp 365.664.380,00
 Jumlah kekurangan:
 18.330,233 kg



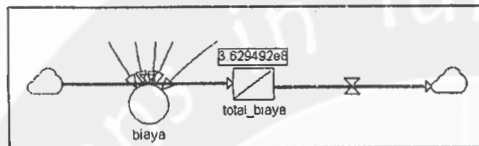
Total biaya:
 Rp 366.835.587,00
 Jumlah Kekurangan:
 20.322,124 kg



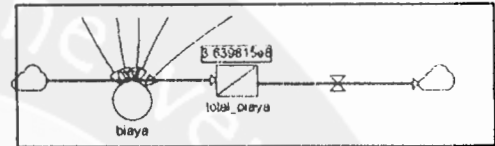
Total biaya:
Rp 362.132.411,00
Jumlah kekurangan:
17.553,433 kg



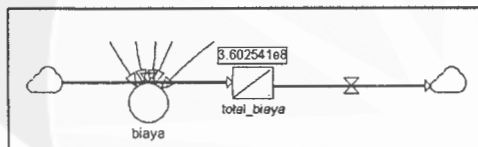
Total biaya:
Rp 368.346.894,00
Jumlah Kekurangan:
18.118,436 kg



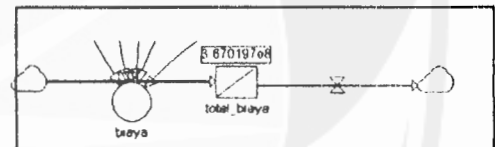
Total biaya:
Rp 362.949.181,00
Jumlah kekurangan:
18.144,777 kg



Total biaya:
Rp 363.981.546,00
Jumlah Kekurangan:
17.018,335 kg



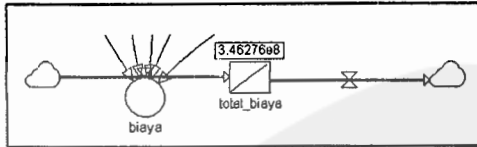
Total biaya:
Rp 360.254.089,00
Jumlah kekurangan:
18.444,131 kg



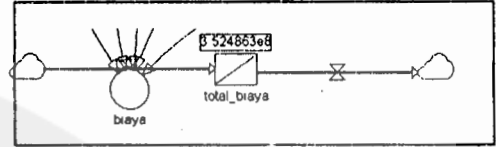
Total biaya:
Rp 367.019.685,00
Jumlah Kekurangan:
19.879,132 kg

Rata-rata total biaya = Rp 364.635.674,00
Rata-rata kekurangan per hari = 18.331,075 kg

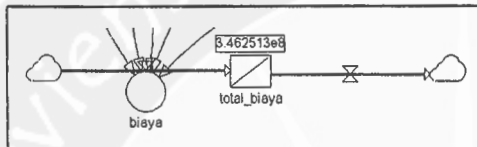
Replikasi simulasi sistem persediaan ikan, pemasukan 1000kg, 6 hari sekali



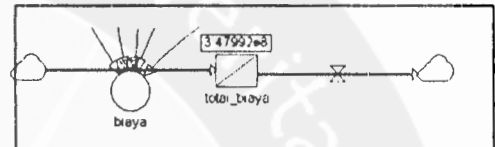
Total biaya:
Rp 346.276.029,00
Jumlah kekurangan:
28.231,446 kg



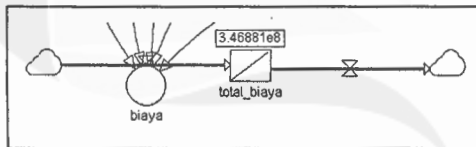
Total biaya:
Rp 352.486.304,00
Jumlah Kekurangan:
31.259,112 kg



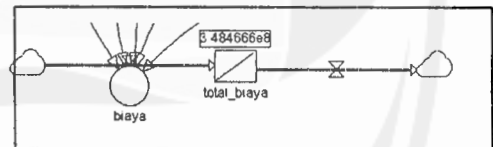
Total biaya:
Rp 346.251.254,00
Jumlah kekurangan:
30.553,874 kg



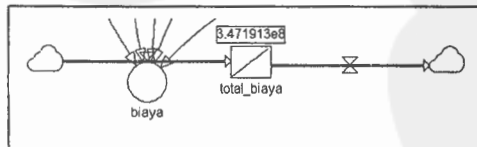
Total biaya:
Rp 347.991.966,00
Jumlah Kekurangan:
30.590,697 kg



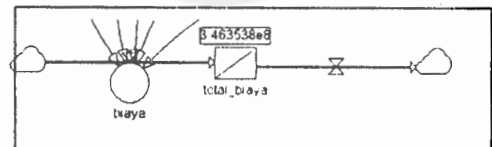
Total biaya:
Rp 346.881.001,00
Jumlah kekurangan:
28.990,989 kg



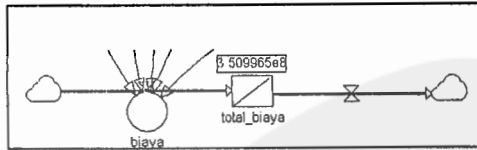
Total biaya:
Rp 348.466.571,00
Jumlah Kekurangan:
29.997,535 kg



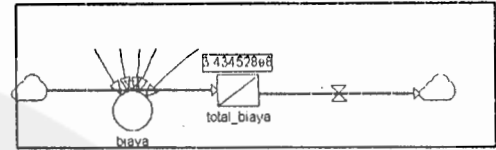
Total biaya:
Rp 347.191.344,00
Jumlah kekurangan:
29.114,788 kg



Total biaya:
Rp 346.353.768,00
Jumlah Kekurangan:
31.526,458 kg



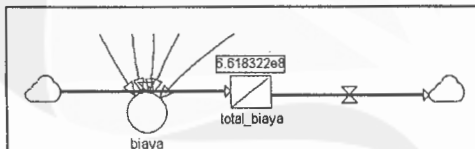
Total biaya:
 Rp 350.996.458,00
 Jumlah kekurangan:
 28.997,947 kg



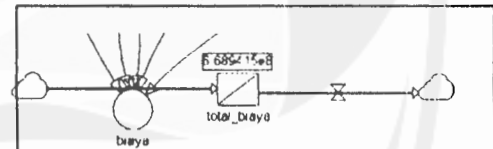
Total biaya:
 Rp 343.452.813,00
 Jumlah Kekurangan:
 29.588,279 kg

Rata-rata total biaya = Rp 347.634.751,00
 Rata-rata kekurangan per hari = 29.885,113 kg

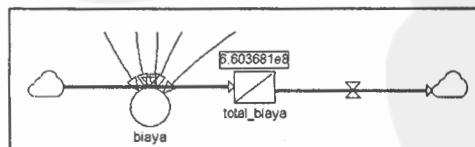
Replikasi simulasi sistem persediaan ikan, pemasukan 2000kg , 6 hari sekali



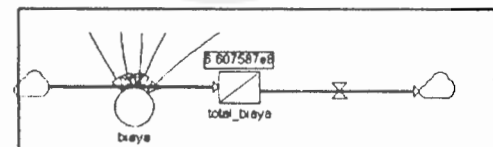
Total biaya:
 Rp 661.832.244,00
 Jumlah kekurangan:
 0 kg



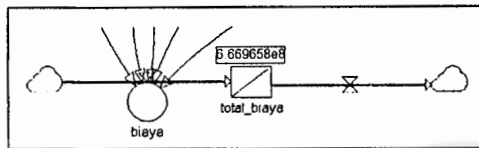
Total biaya:
 Rp 668.941.495,00
 Jumlah Kekurangan:
 0 kg



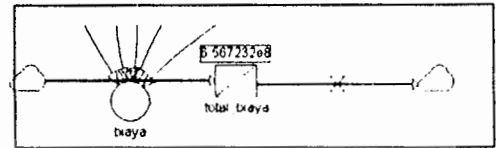
Total biaya:
 Rp 660.368.052,00
 Jumlah kekurangan:
 0 kg



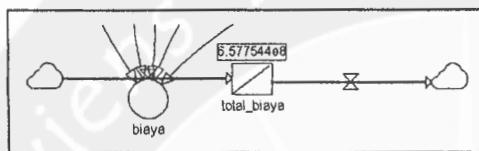
Total biaya:
 Rp 660.758.717,00
 Jumlah Kekurangan:
 0 kg



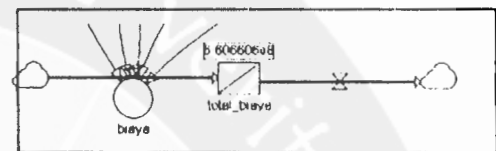
Total biaya:
Rp 666.965.776,00
Jumlah kekurangan:
0 kg



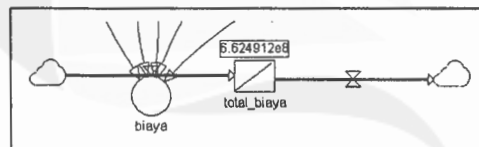
Total biaya:
Rp 656.723.249,00
Jumlah Kekurangan:
0 kg



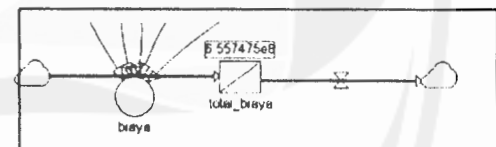
Total biaya:
Rp 657.754.426,00
Jumlah kekurangan:
0 kg



Total biaya:
Rp 660.660.560,00
Jumlah Kekurangan:
0 kg



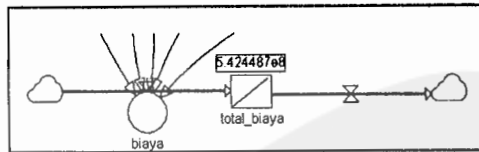
Total biaya:
Rp 662.491.236,00
Jumlah kekurangan:
0 kg



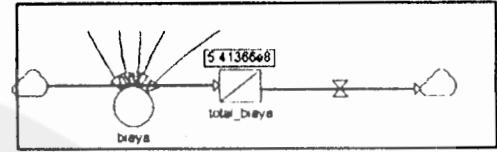
Total biaya:
Rp 655.747.466,00
Jumlah Kekurangan:
0 kg

Rata-rata total biaya = Rp 661.224.322,00
Rata-rata kekurangan per hari = 0 kg

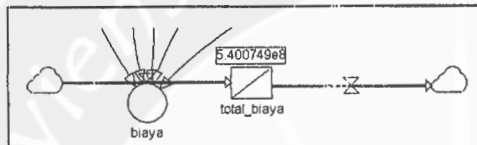
Replikasi simulasi sistem persediaan ikan, pemasukan 2000kg, 7 hari sekali



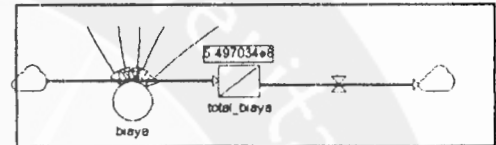
Total biaya:
Rp 542.448.722,00
Jumlah kekurangan:
0 kg



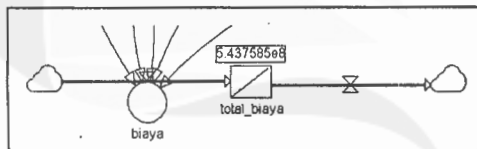
Total biaya:
Rp 541.365.957,00
Jumlah Kekurangan:
0 kg



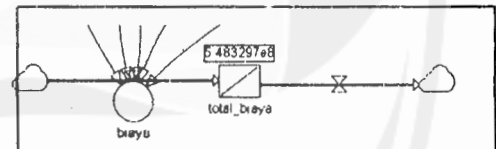
Total biaya:
Rp 540.074.854,00
Jumlah kekurangan:
0 kg



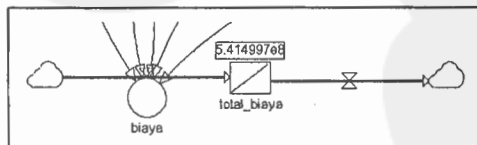
Total biaya:
Rp 549.703.449,00
Jumlah Kekurangan:
0 kg



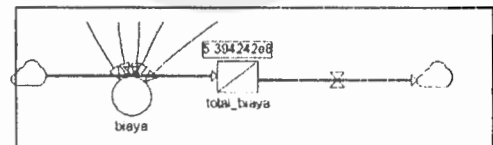
Total biaya:
Rp 543.758.470,00
Jumlah kekurangan:
0 kg



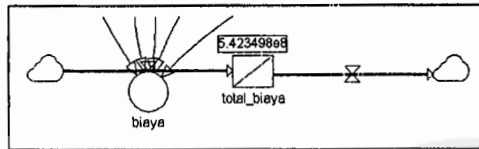
Total biaya:
Rp 548.329.683,00
Jumlah Kekurangan:
0 kg



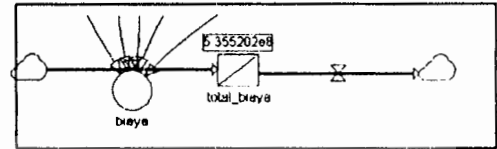
Total biaya:
Rp 541.499.668,00
Jumlah kekurangan:
0 kg



Total biaya:
Rp 539.424.228,00
Jumlah Kekurangan:
0 kg



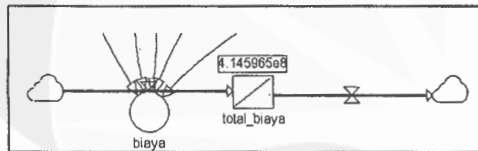
Total biaya:
 Rp 542.349.776,00
 Jumlah kekurangan:
 0 kg



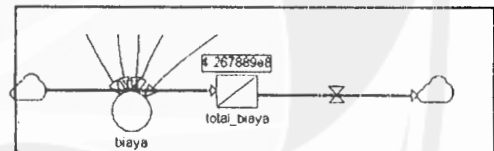
Total biaya:
 Rp 535.520.157,00
 Jumlah Kekurangan:
 0 kg

Rata-rata total biaya = Rp 542.447.496,00
 Rata-rata kekurangan per hari = 0 kg

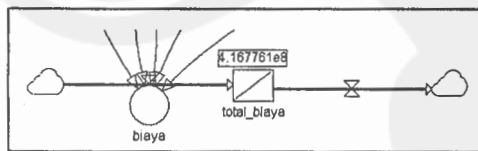
Replikasi simulasi sistem persediaan ikan, pemasukan 2000kg, 8 hari sekali



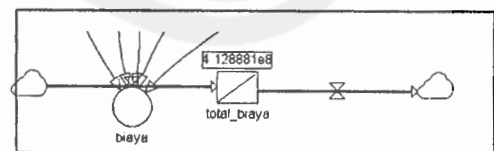
Total biaya:
 Rp 414.596.470,00
 Jumlah kekurangan:
 1.722,657 kg



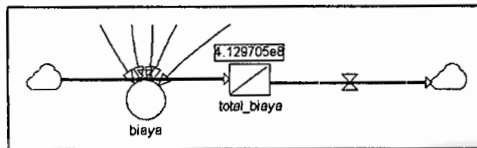
Total biaya:
 Rp 426.788.949,00
 Jumlah Kekurangan:
 2.013,777 kg



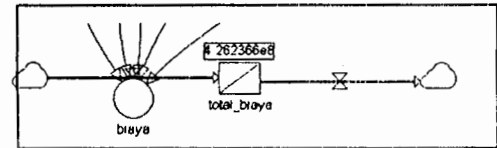
Total biaya:
 Rp 416.776.053,00
 Jumlah kekurangan:
 1.865,376 kg



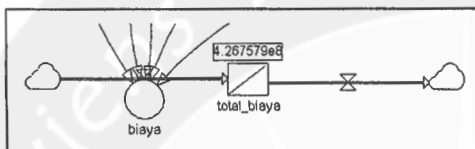
Total biaya:
 Rp 412.888.146,00
 Jumlah Kekurangan:
 1.569,743 kg



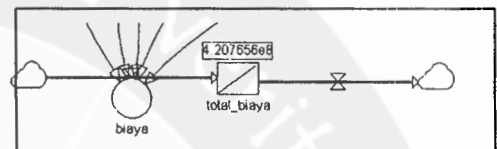
Total biaya:
Rp 412.970.476,00
Jumlah kekurangan:
1.573,375 kg



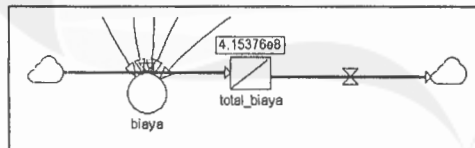
Total biaya:
Rp 426.236.634,00
Jumlah Kekurangan:
1.896,534 kg



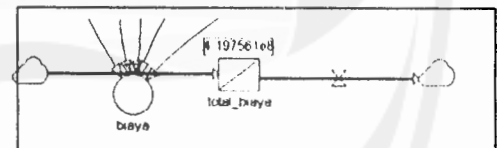
Total biaya:
Rp 426.757.926,00
Jumlah kekurangan:
1.643,568 kg



Total biaya:
Rp 420.765.566,00
Jumlah Kekurangan:
1.533,544 kg



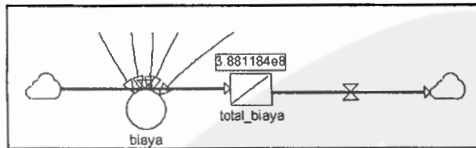
Total biaya:
Rp 415.375.998,00
Jumlah kekurangan:
2.153,238 kg



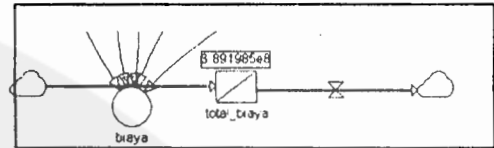
Total biaya:
Rp 419.756.083,00
Jumlah Kekurangan:
1.844,553 kg

Rata-rata total biaya = Rp 419.291.230,00
Rata-rata kekurangan per hari = 1.781,637 kg

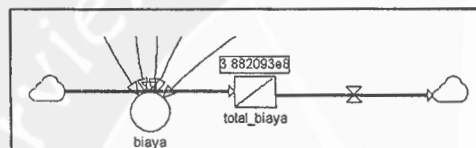
Replikasi simulasi sistem persediaan ikan, pemasukan 2000 kg, 9 hari sekali



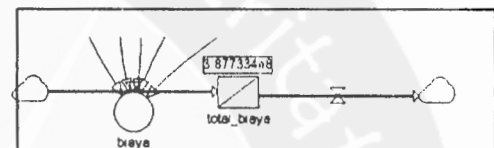
Total biaya:
Rp 388.118.428,00
Jumlah kekurangan:
10.574,459 kg



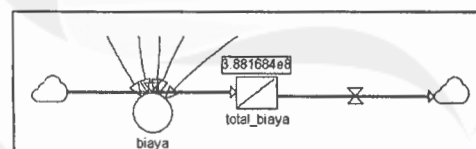
Total biaya:
Rp 389.198.530,00
Jumlah Kekurangan:
8.214,342 kg



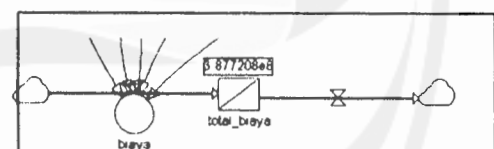
Total biaya:
Rp 388.209.331,00
Jumlah kekurangan:
9.655,999 kg



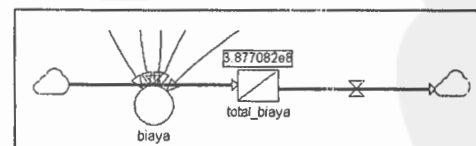
Total biaya:
Rp 387.733.449,00
Jumlah Kekurangan:
9.974,366 kg



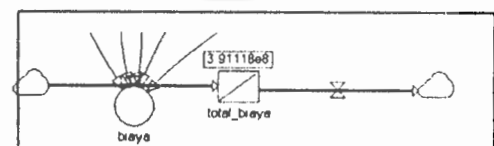
Total biaya:
Rp 388.168.365,00
Jumlah kekurangan:
9.833,666 kg



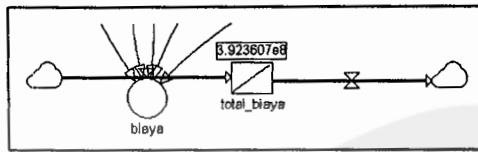
Total biaya:
Rp 387.720.831,00
Jumlah Kekurangan:
11.240,059 kg



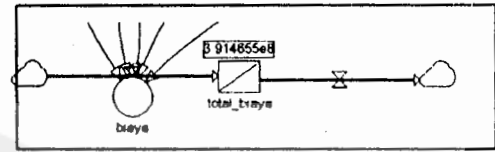
Total biaya:
Rp 387.708.218,00
Jumlah kekurangan:
10.234,866 kg



Total biaya:
Rp 391.118.043,00
Jumlah Kekurangan:
9.433,253 kg



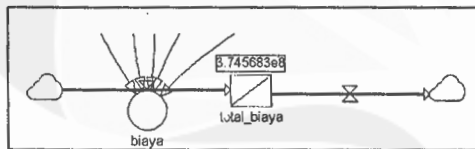
Total biaya:
 Rp 392.360.739,00
 Jumlah kekurangan:
 11.481,843 kg



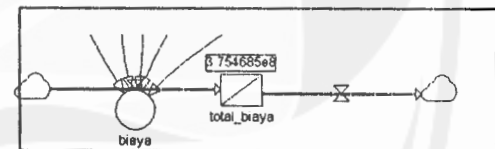
Total biaya:
 Rp 391.465.469,00
 Jumlah Kekurangan:
 8.520,056 kg

Rata-rata total biaya = Rp 389.180.140,00
 Rata-rata kekurangan per hari = 9.916,291 kg

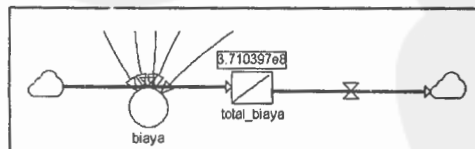
Replikasi simulasi sistem persediaan ikan, pemasukan 2000kg, 10 hari sekali



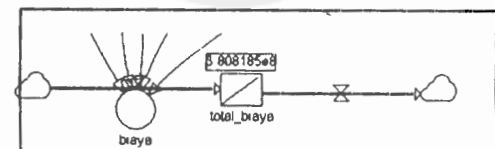
Total biaya:
 Rp 374.568.284,00
 Jumlah kekurangan:
 18.725,685 kg



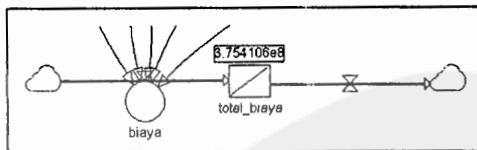
Total biaya:
 Rp 375.468.514,00
 Jumlah Kekurangan:
 15.565,849 kg



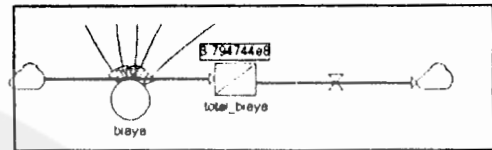
Total biaya:
 Rp 371.039.703,00
 Jumlah kekurangan:
 16.445,136 kg



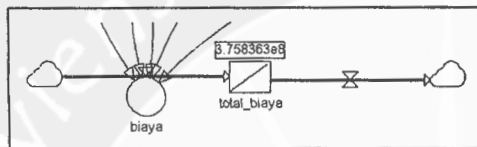
Total biaya:
 Rp 380.818.469,00
 Jumlah Kekurangan:
 18.841,767 kg



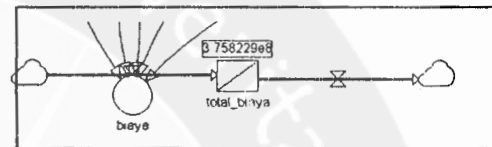
Total biaya:
Rp 375.410.623,00
Jumlah kekurangan:
17.542,354 kg



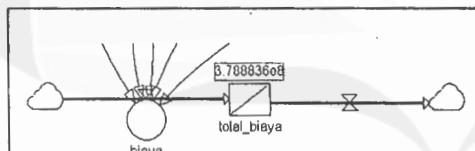
Total biaya:
Rp 379.474.441,00
Jumlah Kekurangan:
18.447,658 kg



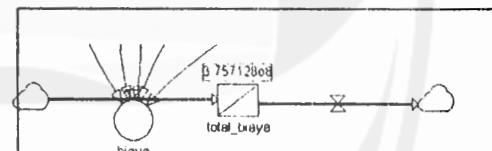
Total biaya:
Rp 375.836.292,00
Jumlah kekurangan:
17.411,663 kg



Total biaya:
Rp 375.822.879,00
Jumlah Kekurangan:
18.983,013 kg



Total biaya:
Rp 378.883.574,00
Jumlah kekurangan:
18.189,941 kg

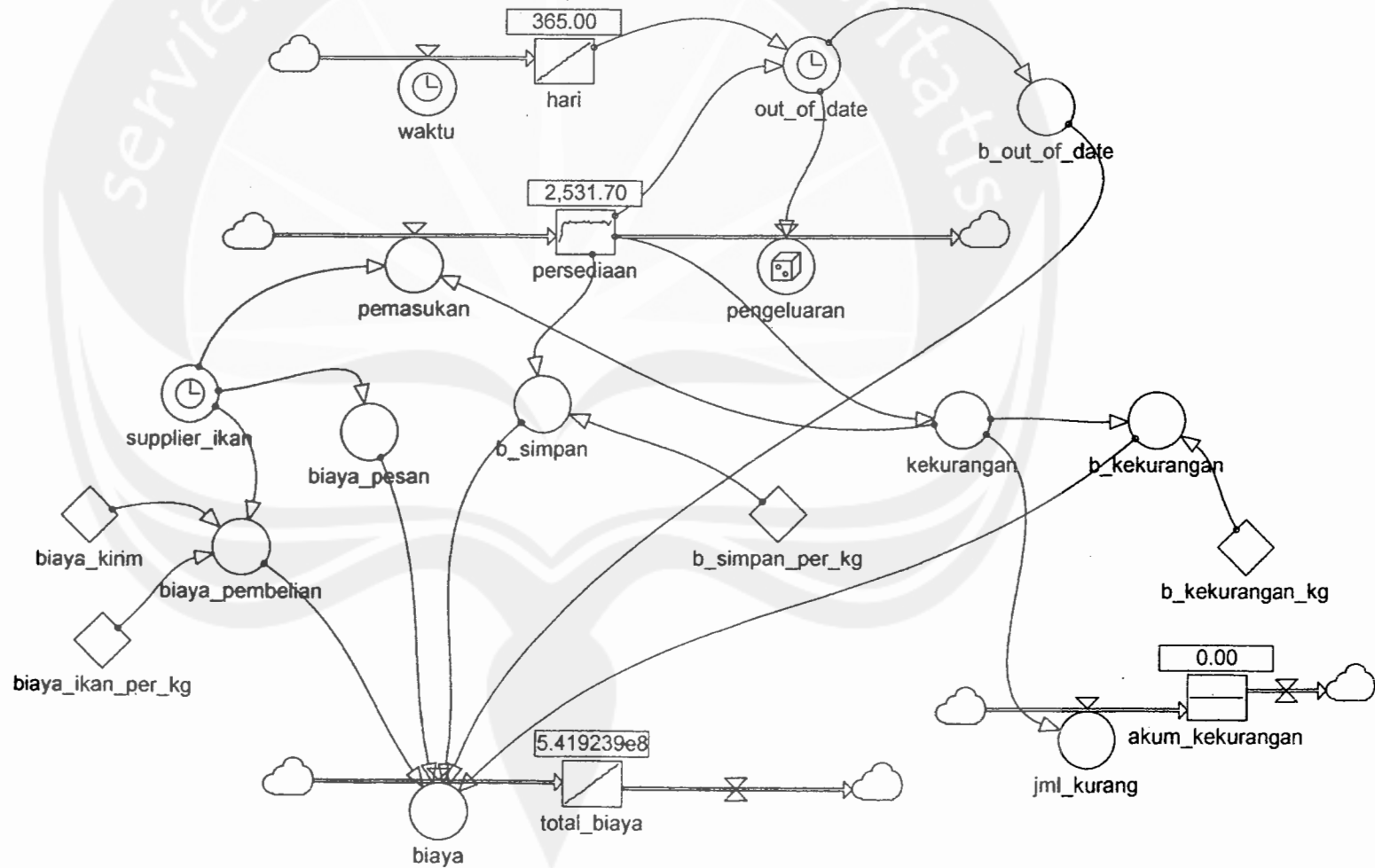


Total biaya:
Rp 375.712.791,00
Jumlah Kekurangan:
17.009,175 kg

Rata-rata total biaya = Rp 376.303.557,00
Rata-rata kekurangan per hari = 17.716,224 kg



SISTEM PERSEDIAAN IKAN SKENARIO 2, PERIODE PEMASUKAN 7 HARI



- ☐ akumul_kekurangan

☐ +dt*jml_kurang
- ☐ hari

☐ +dt*waktu
- ☐ persediaan

☐ -dt*pengeluaran
☐ +dt*pemasukan
☐ persediaan dari 31 desember 2005
- ☐ total_biaya

☐ +dt*biaya
- ☐ biaya
 = b_kekurangan+b_simpan+biaya_pembelian+biaya_pesan+b_out_of_date
- ☐ jml_kurang
 = kekurangan
- ☐ pemasukan
 = supplier_ikan+kekurangan
- ☐ pengeluaran
 = out_of_date+NORMAL(250,50.9)
- ☐ waktu
 = PULSEIF(TIMECYCLE(0, 1), 1)
- ☐ b_kekurangan
 = kekurangan*b_kekurangan_kg
- ☐ b_out_of_date
 = out_of_date*4000
- ☐ b_simpan
 = IF(persediaan>0, persediaan*b_simpan_per_kg, 0)
- ☐ biaya_pembelian
 = biaya_ikan_per_kg*supplier_ikan+IF(supplier_ikan<=0, 0, IF(supplier_ikan<=1000, biaya_kirim, biaya_kirim*(supplier_ikan/1000)))
- ☐ biaya_pesan
 = IF(supplier_ikan>0, 30000, 0)
- ☐ kekurangan
 = IF(persediaan<0, -persediaan, 0)
- ☐ out_of_date
 = IF(hari=7, IF(persediaan>2000, persediaan-2000, 0), IF(hari=9, IF(persediaan>2000, persediaan-2000, 0), IF(hari=16, IF(persediaan>2000, persediaan-2000, 0), PULSEIF(TIMECYCLE(16,7), IF(persediaan>2000, persediaan-2000,0)))))

○ supplier_ikan
= PULSEIF(TIMECYCLE(2,7),2000)
◇ b_kekurangan_kg
= 2800
◇ b_simpan_per_kg
= 57
◇ biaya_ikan_per_kg
= 4000
◇ biaya_kirim
= 200000

TABEL SIMULASI DATA IKAN SKENARIO 2, PERIODE PEMASUKAN 7 HARI

Time	bemasuk	persediaan	pengeluaran	b out of date	b kekurangan	b simpan	biaya pembelian	biaya	total biaya	im kekurangan
0	0.00	800.00	248.83	0.00	0.00	45,600.00	0.00	45,600.00	0.00	0.00
1	0.00	551.17	222.51	0.00	0.00	31,416.62	0.00	31,416.62	45,600.00	0.00
2	2,000.0	328.66	132.08	0.00	0.00	18,733.62	8,400,000.00	8,448,734	77,016.62	0.00
3	0.00	2,196.58	264.04	0.00	0.00	125,204.88	0.00	125,204.88	8,525,750.2	0.00
4	0.00	1,932.54	164.68	0.00	0.00	110,154.56	0.00	110,154.56	8,650,955.1	0.00
5	0.00	1,767.86	311.04	0.00	0.00	100,768.05	0.00	100,768.05	8,761,109.7	0.00
6	0.00	1,456.82	242.59	0.00	0.00	83,038.59	0.00	83,038.59	8,861,877.7	0.00
7	0.00	1,214.23	284.65	0.00	0.00	69,210.83	0.00	69,210.83	8,944,916.3	0.00
8	0.00	929.57	326.82	0.00	0.00	52,985.73	0.00	52,985.73	9,014,127.1	0.00
9	2,000.0	602.75	255.44	0.00	0.00	34,356.83	8,400,000.00	8,464,357	9,067,112.9	0.00
10	0.00	2,347.32	269.08	0.00	0.00	133,797.02	0.00	133,797.02	17,531,470	0.00
11	0.00	2,078.23	189.66	0.00	0.00	118,459.22	0.00	118,459.22	17,665,267	0.00
12	0.00	1,888.57	138.42	0.00	0.00	107,648.54	0.00	107,648.54	17,783,726	0.00
13	0.00	1,750.16	270.50	0.00	0.00	99,758.85	0.00	99,758.85	17,891,374	0.00
14	0.00	1,479.66	199.81	0.00	0.00	84,340.49	0.00	84,340.49	17,991,133	0.00
15	0.00	1,279.85	230.30	0.00	0.00	72,951.53	0.00	72,951.53	18,075,474	0.00
16	2,000.0	1,049.55	311.25	0.00	0.00	59,824.62	8,400,000.00	8,489,825	18,148,425	0.00
17	0.00	2,738.31	219.90	0.00	0.00	156,083.44	0.00	156,083.44	26,638,250	0.00
18	0.00	2,518.40	335.63	0.00	0.00	143,548.97	0.00	143,548.97	26,794,333	0.00
19	0.00	2,182.77	338.00	0.00	0.00	124,418.17	0.00	124,418.17	26,937,882	0.00
20	0.00	1,844.78	228.66	0.00	0.00	105,152.27	0.00	105,152.27	27,062,301	0.00
21	0.00	1,616.12	266.29	0.00	0.00	92,118.71	0.00	92,118.71	27,167,453	0.00
22	0.00	1,349.82	220.51	0.00	0.00	76,939.95	0.00	76,939.95	27,259,572	0.00
23	2,000.0	1,129.31	197.71	0.00	0.00	64,370.81	8,400,000.00	8,494,371	27,336,511	0.00
24	0.00	2,931.60	279.61	0.00	0.00	167,101.22	0.00	167,101.22	35,830,882	0.00
25	0.00	2,651.99	207.97	0.00	0.00	151,163.47	0.00	151,163.47	35,997,984	0.00
26	0.00	2,444.02	215.80	0.00	0.00	139,309.12	0.00	139,309.12	36,149,147	0.00
27	0.00	2,228.22	168.19	0.00	0.00	127,008.59	0.00	127,008.59	36,288,456	0.00
28	0.00	2,060.03	189.65	0.00	0.00	117,421.88	0.00	117,421.88	36,415,465	0.00

29	0.00	1,870.39	152.84	0.00	0.00	106,612.06	0.00	106,612.06	36,532,887	0.00
30	2,000.0	1,717.54	270.83	0.00	0.00	97,899.96	8,400,000.00	8,527,900	36,639,499	0.00
31	0.00	3,446.71	266.02	0.00	0.00	196,462.46	0.00	196,462.46	45,167,399	0.00
32	0.00	3,180.69	313.08	0.00	0.00	181,299.30	0.00	181,299.30	45,363,861	0.00
33	0.00	2,867.61	180.21	0.00	0.00	163,453.58	0.00	163,453.58	45,545,160	0.00
34	0.00	2,687.40	230.63	0.00	0.00	153,181.77	0.00	153,181.77	45,708,614	0.00
35	0.00	2,456.77	165.73	0.00	0.00	140,036.04	0.00	140,036.04	45,861,796	0.00
36	0.00	2,291.04	299.99	0.00	0.00	130,589.33	0.00	130,589.33	46,001,832	0.00
37	2,000.0	1,991.05	278.73	0.00	0.00	113,490.12	8,400,000.00	8,543,490	46,132,421	0.00
38	0.00	3,712.33	207.26	0.00	0.00	211,602.63	0.00	211,602.63	54,675,911	0.00
39	0.00	3,505.07	212.35	0.00	0.00	199,788.88	0.00	199,788.88	54,887,514	0.00
40	0.00	3,292.72	227.15	0.00	0.00	187,684.77	0.00	187,684.77	55,087,303	0.00
41	0.00	3,065.57	332.43	0.00	0.00	174,737.41	0.00	174,737.41	55,274,987	0.00
42	0.00	2,733.13	249.85	0.00	0.00	155,788.64	0.00	155,788.64	55,449,725	0.00
43	0.00	2,483.28	255.22	0.00	0.00	141,547.18	0.00	141,547.18	55,605,514	0.00
44	2,000.0	2,228.07	445.74	912,269.41	0.00	126,999.84	8,400,000.00	9,469,269	55,747,061	0.00
45	0.00	3,782.33	225.35	0.00	0.00	215,592.82	0.00	215,592.82	65,216,330	0.00
46	0.00	3,556.98	280.10	0.00	0.00	202,748.04	0.00	202,748.04	65,431,923	0.00
47	0.00	3,276.88	280.66	0.00	0.00	186,782.27	0.00	186,782.27	65,634,671	0.00
48	0.00	2,996.22	266.81	0.00	0.00	170,784.74	0.00	170,784.74	65,821,453	0.00
49	0.00	2,729.41	249.69	0.00	0.00	155,576.41	0.00	155,576.41	65,992,238	0.00
50	0.00	2,479.72	308.83	0.00	0.00	141,343.94	0.00	141,343.94	66,147,814	0.00
51	2,000.0	2,170.89	425.89	683,545.69	0.00	123,740.53	8,400,000.00	9,237,286	66,289,158	0.00
52	0.00	3,744.99	214.99	0.00	0.00	213,464.69	0.00	213,464.69	75,526,444	0.00
53	0.00	3,530.00	301.88	0.00	0.00	201,210.20	0.00	201,210.20	75,739,909	0.00
54	0.00	3,228.13	325.76	0.00	0.00	184,003.25	0.00	184,003.25	75,941,119	0.00
55	0.00	2,902.36	236.58	0.00	0.00	165,434.72	0.00	165,434.72	76,125,123	0.00
56	0.00	2,665.78	300.55	0.00	0.00	151,949.51	0.00	151,949.51	76,290,557	0.00
57	0.00	2,365.23	214.27	0.00	0.00	134,818.13	0.00	134,818.13	76,442,507	0.00
58	2,000.0	2,150.96	482.88	603,856.60	0.00	122,604.96	8,400,000.00	9,156,462	76,577,325	0.00
59	0.00	3,668.09	192.80	0.00	0.00	209,080.90	0.00	209,080.90	85,733,786	0.00
60	0.00	3,475.28	214.54	0.00	0.00	198,091.15	0.00	198,091.15	85,942,867	0.00
61	0.00	3,260.74	377.44	0.00	0.00	185,862.24	0.00	185,862.24	86,140,958	0.00
62	0.00	2,883.30	290.67	0.00	0.00	164,348.24	0.00	164,348.24	86,326,821	0.00
63	0.00	2,592.63	193.33	0.00	0.00	147,779.83	0.00	147,779.83	86,491,169	0.00
64	0.00	2,399.30	292.60	0.00	0.00	136,760.19	0.00	136,760.19	86,638,949	0.00
65	2,000.0	2,106.70	408.37	426,796.87	0.00	120,081.86	8,400,000.00	8,976,879	86,775,709	0.00
66	0.00	3,698.32	207.71	0.00	0.00	210,804.52	0.00	210,804.52	95,752,588	0.00
67	0.00	3,490.62	265.19	0.00	0.00	198,965.07	0.00	198,965.07	95,963,392	0.00

68	0.00	3,225.43	268.43	0.00	0.00	183,849.31	0.00	183,849.31	96,162,357	0.00
69	0.00	2,956.99	265.79	0.00	0.00	168,548.62	0.00	168,548.62	96,346,207	0.00
70	0.00	2,691.20	368.33	0.00	0.00	153,398.38	0.00	153,398.38	96,514,755	0.00
71	0.00	2,322.87	221.57	0.00	0.00	132,403.68	0.00	132,403.68	96,668,154	0.00
72	2,000.0	2,101.30	301.54	405,188.56	0.00	119,773.94	8,400,000.00	8,954,962	96,800,557	0.00
73	0.00	3,799.76	216.61	0.00	0.00	216,586.04	0.00	216,586.04	105,755,520	0.00
74	0.00	3,583.14	292.15	0.00	0.00	204,239.02	0.00	204,239.02	105,972,106	0.00
75	0.00	3,290.99	280.07	0.00	0.00	187,586.36	0.00	187,586.36	106,176,345	0.00
76	0.00	3,010.92	243.51	0.00	0.00	171,622.28	0.00	171,622.28	106,363,931	0.00
77	0.00	2,767.41	239.29	0.00	0.00	157,742.47	0.00	157,742.47	106,535,553	0.00
78	0.00	2,528.12	241.32	0.00	0.00	144,103.01	0.00	144,103.01	106,693,296	0.00
79	2,000.0	2,286.81	474.23	1,147,220	0.00	130,347.89	8,400,000.00	9,707,568	106,837,399	0.00
80	0.00	3,812.58	266.13	0.00	0.00	217,316.85	0.00	217,316.85	116,544,967	0.00
81	0.00	3,546.45	229.87	0.00	0.00	202,147.71	0.00	202,147.71	116,762,284	0.00
82	0.00	3,316.58	319.85	0.00	0.00	189,045.12	0.00	189,045.12	116,964,432	0.00
83	0.00	2,996.73	209.70	0.00	0.00	170,813.72	0.00	170,813.72	117,153,477	0.00
84	0.00	2,787.03	240.36	0.00	0.00	158,860.86	0.00	158,860.86	117,324,290	0.00
85	0.00	2,546.67	216.89	0.00	0.00	145,160.31	0.00	145,160.31	117,483,151	0.00
86	2,000.0	2,329.78	535.24	1,319,135	0.00	132,797.68	8,400,000.00	9,881,933	117,628,312	0.00
87	0.00	3,794.54	236.42	0.00	0.00	216,288.86	0.00	216,288.86	127,510,245	0.00
88	0.00	3,558.13	266.60	0.00	0.00	202,813.14	0.00	202,813.14	127,726,533	0.00
89	0.00	3,291.53	308.54	0.00	0.00	187,617.16	0.00	187,617.16	127,929,347	0.00
90	0.00	2,982.99	263.04	0.00	0.00	170,030.55	0.00	170,030.55	128,116,964	0.00
91	0.00	2,719.95	254.85	0.00	0.00	155,037.03	0.00	155,037.03	128,286,994	0.00
92	0.00	2,465.09	322.69	0.00	0.00	140,510.33	0.00	140,510.33	128,442,031	0.00
93	2,000.0	2,142.40	314.37	569,610.87	0.00	122,116.95	8,400,000.00	9,121,728	128,582,542	0.00
94	0.00	3,828.04	369.51	0.00	0.00	218,198.01	0.00	218,198.01	137,704,269	0.00
95	0.00	3,458.52	226.82	0.00	0.00	197,135.73	0.00	197,135.73	137,922,468	0.00
96	0.00	3,231.70	352.10	0.00	0.00	184,206.80	0.00	184,206.80	138,119,603	0.00
97	0.00	2,879.60	195.59	0.00	0.00	164,136.97	0.00	164,136.97	138,303,810	0.00
98	0.00	2,684.00	193.29	0.00	0.00	152,988.08	0.00	152,988.08	138,467,947	0.00
99	0.00	2,490.71	252.70	0.00	0.00	141,970.62	0.00	141,970.62	138,620,935	0.00
100	2,000.0	2,238.02	522.87	952,062.69	0.00	127,566.89	8,400,000.00	9,509,630	138,762,906	0.00
101	0.00	3,715.15	253.15	0.00	0.00	211,763.40	0.00	211,763.40	148,272,535	0.00
102	0.00	3,462.00	246.67	0.00	0.00	197,333.85	0.00	197,333.85	148,484,299	0.00
103	0.00	3,215.33	161.26	0.00	0.00	183,273.93	0.00	183,273.93	148,681,633	0.00
104	0.00	3,054.08	240.91	0.00	0.00	174,082.31	0.00	174,082.31	148,864,906	0.00
105	0.00	2,813.17	268.12	0.00	0.00	160,350.51	0.00	160,350.51	149,038,989	0.00
106	0.00	2,545.04	217.56	0.00	0.00	145,067.54	0.00	145,067.54	149,199,339	0.00

107	2,000.0	2,327.49	598.79	1,309,941	0.00	132,666.67	8,400,000.00	9,872,608	149,344,407	0.00
108	0.00	3,728.70	271.40	0.00	0.00	212,535.65	0.00	212,535.65	159,217,015	0.00
109	0.00	3,457.30	355.86	0.00	0.00	197,066.08	0.00	197,066.08	159,429,551	0.00
110	0.00	3,101.44	242.09	0.00	0.00	176,781.87	0.00	176,781.87	159,626,617	0.00
111	0.00	2,859.35	262.56	0.00	0.00	162,982.98	0.00	162,982.98	159,803,399	0.00
112	0.00	2,596.79	192.21	0.00	0.00	148,017.17	0.00	148,017.17	159,966,382	0.00
113	0.00	2,404.59	225.11	0.00	0.00	137,061.38	0.00	137,061.38	160,114,399	0.00
114	2,000.0	2,179.47	427.13	717,886.76	0.00	124,229.89	8,400,000.00	9,272,117	160,251,460	0.00
115	0.00	3,752.35	333.31	0.00	0.00	213,883.69	0.00	213,883.69	169,523,577	0.00
116	0.00	3,419.04	286.53	0.00	0.00	194,885.10	0.00	194,885.10	169,737,460	0.00
117	0.00	3,132.51	231.07	0.00	0.00	178,552.81	0.00	178,552.81	169,932,346	0.00
118	0.00	2,901.44	359.30	0.00	0.00	165,382.01	0.00	165,382.01	170,110,898	0.00
119	0.00	2,542.14	290.01	0.00	0.00	144,901.94	0.00	144,901.94	170,276,280	0.00
120	0.00	2,252.12	278.00	0.00	0.00	128,371.12	0.00	128,371.12	170,421,182	0.00
121	2,000.0	1,974.13	165.58	0.00	0.00	112,525.28	8,400,000.00	8,542,525	170,549,553	0.00
122	0.00	3,808.55	253.51	0.00	0.00	217,087.08	0.00	217,087.08	179,092,079	0.00
123	0.00	3,555.04	197.37	0.00	0.00	202,637.21	0.00	202,637.21	179,309,166	0.00
124	0.00	3,357.67	266.10	0.00	0.00	191,387.28	0.00	191,387.28	179,511,803	0.00
125	0.00	3,091.57	255.37	0.00	0.00	176,219.77	0.00	176,219.77	179,703,190	0.00
126	0.00	2,836.21	223.88	0.00	0.00	161,663.69	0.00	161,663.69	179,879,410	0.00
127	0.00	2,612.33	341.57	0.00	0.00	148,902.76	0.00	148,902.76	180,041,074	0.00
128	2,000.0	2,270.76	545.68	1,083,021	0.00	129,433.05	8,400,000.00	9,642,454	180,189,976	0.00
129	0.00	3,725.07	279.19	0.00	0.00	212,329.09	0.00	212,329.09	189,832,431	0.00
130	0.00	3,445.88	264.63	0.00	0.00	196,415.01	0.00	196,415.01	190,044,760	0.00
131	0.00	3,181.24	242.16	0.00	0.00	181,330.86	0.00	181,330.86	190,241,175	0.00
132	0.00	2,939.08	152.39	0.00	0.00	167,527.54	0.00	167,527.54	190,422,506	0.00
133	0.00	2,786.69	200.48	0.00	0.00	158,841.52	0.00	158,841.52	190,590,033	0.00
134	0.00	2,586.21	310.26	0.00	0.00	147,414.03	0.00	147,414.03	190,748,875	0.00
135	2,000.0	2,275.95	493.93	1,103,818	0.00	129,729.41	8,400,000.00	9,663,548	190,896,289	0.00
136	0.00	3,782.02	295.75	0.00	0.00	215,575.13	0.00	215,575.13	200,559,836	0.00
137	0.00	3,486.27	251.05	0.00	0.00	198,717.30	0.00	198,717.30	200,775,412	0.00
138	0.00	3,235.22	239.91	0.00	0.00	184,407.32	0.00	184,407.32	200,974,129	0.00
139	0.00	2,995.31	304.05	0.00	0.00	170,732.42	0.00	170,732.42	201,158,536	0.00
140	0.00	2,691.26	218.96	0.00	0.00	153,401.67	0.00	153,401.67	201,329,269	0.00
141	0.00	2,472.30	133.98	0.00	0.00	140,921.05	0.00	140,921.05	201,482,670	0.00
142	2,000.0	2,338.32	657.95	1,353,269	0.00	133,284.09	8,400,000.00	9,916,553	201,623,591	0.00
143	0.00	3,680.37	158.05	0.00	0.00	209,780.84	0.00	209,780.84	211,540,145	0.00
144	0.00	3,522.31	289.15	0.00	0.00	200,771.76	0.00	200,771.76	211,749,925	0.00
145	0.00	3,233.16	256.99	0.00	0.00	184,289.99	0.00	184,289.99	211,950,697	0.00

146	0.00	2,976.17	269.01	0.00	0.00	169,641.57	0.00	169,641.57	212,134,987	0.00
147	0.00	2,707.16	273.33	0.00	0.00	154,308.19	0.00	154,308.19	212,304,629	0.00
148	0.00	2,433.83	266.98	0.00	0.00	138,728.37	0.00	138,728.37	212,458,937	0.00
149	2,000.0	2,166.85	344.01	667,401.90	0.00	123,510.48	8,400,000.00	9,220,912	212,597,665	0.00
150	0.00	3,822.84	254.29	0.00	0.00	217,902.08	0.00	217,902.08	221,818,578	0.00
151	0.00	3,568.56	183.77	0.00	0.00	203,407.75	0.00	203,407.75	222,036,480	0.00
152	0.00	3,384.78	238.28	0.00	0.00	192,932.63	0.00	192,932.63	222,239,888	0.00
153	0.00	3,146.50	290.03	0.00	0.00	179,350.60	0.00	179,350.60	222,432,820	0.00
154	0.00	2,856.47	296.07	0.00	0.00	162,818.85	0.00	162,818.85	222,612,171	0.00
155	0.00	2,560.40	276.65	0.00	0.00	145,942.72	0.00	145,942.72	222,774,990	0.00
156	2,000.0	2,283.75	594.55	1,135,008	0.00	130,173.86	8,400,000.00	9,695,182	222,920,932	0.00
157	0.00	3,689.20	184.86	0.00	0.00	210,284.64	0.00	210,284.64	232,616,114	0.00
158	0.00	3,504.34	319.51	0.00	0.00	199,747.38	0.00	199,747.38	232,826,399	0.00
159	0.00	3,184.83	169.15	0.00	0.00	181,535.58	0.00	181,535.58	233,026,146	0.00
160	0.00	3,015.69	192.62	0.00	0.00	171,894.23	0.00	171,894.23	233,207,682	0.00
161	0.00	2,823.06	271.31	0.00	0.00	160,914.62	0.00	160,914.62	233,379,576	0.00
162	0.00	2,551.75	354.35	0.00	0.00	145,449.90	0.00	145,449.90	233,540,491	0.00
163	2,000.0	2,197.40	409.45	789,594.35	0.00	125,251.72	8,400,000.00	9,344,846	233,685,941	0.00
164	0.00	3,787.94	281.58	0.00	0.00	215,912.85	0.00	215,912.85	243,030,787	0.00
165	0.00	3,506.36	249.03	0.00	0.00	199,862.69	0.00	199,862.69	243,246,700	0.00
166	0.00	3,257.33	141.79	0.00	0.00	185,668.09	0.00	185,668.09	243,446,562	0.00
167	0.00	3,115.55	263.61	0.00	0.00	177,586.10	0.00	177,586.10	243,632,230	0.00
168	0.00	2,851.94	256.77	0.00	0.00	162,560.34	0.00	162,560.34	243,809,816	0.00
169	0.00	2,595.16	191.72	0.00	0.00	147,924.25	0.00	147,924.25	243,972,377	0.00
170	2,000.0	2,403.45	682.18	1,613,788	0.00	136,996.47	8,400,000.00	10,180,784	244,120,301	0.00
171	0.00	3,721.27	263.46	0.00	0.00	212,112.41	0.00	212,112.41	254,301,085	0.00
172	0.00	3,457.81	205.54	0.00	0.00	197,095.26	0.00	197,095.26	254,513,197	0.00
173	0.00	3,252.27	173.33	0.00	0.00	185,379.45	0.00	185,379.45	254,710,293	0.00
174	0.00	3,078.94	272.07	0.00	0.00	175,499.46	0.00	175,499.46	254,895,672	0.00
175	0.00	2,806.87	131.50	0.00	0.00	159,991.36	0.00	159,991.36	255,071,172	0.00
176	0.00	2,675.36	283.26	0.00	0.00	152,495.67	0.00	152,495.67	255,231,163	0.00
177	2,000.0	2,392.10	640.55	1,568,393	0.00	136,349.61	8,400,000.00	10,134,743	255,383,659	0.00
178	0.00	3,751.54	252.93	0.00	0.00	213,838.06	0.00	213,838.06	265,518,402	0.00
179	0.00	3,498.62	252.21	0.00	0.00	199,421.08	0.00	199,421.08	265,732,240	0.00
180	0.00	3,246.41	269.90	0.00	0.00	185,045.33	0.00	185,045.33	265,931,661	0.00
181	0.00	2,976.51	281.00	0.00	0.00	169,660.80	0.00	169,660.80	266,116,706	0.00
182	0.00	2,695.50	208.07	0.00	0.00	153,643.54	0.00	153,643.54	266,286,367	0.00
183	0.00	2,487.43	298.57	0.00	0.00	141,783.50	0.00	141,783.50	266,440,010	0.00
184	2,000.0	2,188.86	458.73	755,452.18	0.00	124,765.19	8,400,000.00	9,310,217	266,581,794	0.00

185	0.00	3,730.13	274.90	0.00	0.00	212,617.52	0.00	212,617.52	275,892,011	0.00
186	0.00	3,455.24	246.82	0.00	0.00	196,948.43	0.00	196,948.43	276,104,629	0.00
187	0.00	3,208.41	163.53	0.00	0.00	182,879.48	0.00	182,879.48	276,301,577	0.00
188	0.00	3,044.89	301.34	0.00	0.00	173,558.54	0.00	173,558.54	276,484,457	0.00
189	0.00	2,743.55	287.80	0.00	0.00	156,382.32	0.00	156,382.32	276,658,015	0.00
190	0.00	2,455.75	270.62	0.00	0.00	139,977.57	0.00	139,977.57	276,814,398	0.00
191	2,000.0	2,185.12	451.42	740,495.79	0.00	124,552.07	8,400,000.00	9,295,048	276,954,375	0.00
192	0.00	3,733.70	130.02	0.00	0.00	212,821.07	0.00	212,821.07	286,249,423	0.00
193	0.00	3,603.68	212.16	0.00	0.00	205,410.00	0.00	205,410.00	286,462,244	0.00
194	0.00	3,391.52	241.49	0.00	0.00	193,316.66	0.00	193,316.66	286,667,654	0.00
195	0.00	3,150.03	332.93	0.00	0.00	179,551.88	0.00	179,551.88	286,860,971	0.00
196	0.00	2,817.10	230.88	0.00	0.00	160,574.85	0.00	160,574.85	287,040,523	0.00
197	0.00	2,586.23	262.35	0.00	0.00	147,414.91	0.00	147,414.91	287,201,098	0.00
198	2,000.0	2,323.87	626.72	1,295,487	0.00	132,460.69	8,400,000.00	9,857,948	287,348,512	0.00
199	0.00	3,697.15	209.50	0.00	0.00	210,737.79	0.00	210,737.79	297,206,460	0.00
200	0.00	3,487.66	195.19	0.00	0.00	198,796.35	0.00	198,796.35	297,417,198	0.00
201	0.00	3,292.47	324.80	0.00	0.00	187,670.60	0.00	187,670.60	297,615,994	0.00
202	0.00	2,967.67	361.17	0.00	0.00	169,157.11	0.00	169,157.11	297,803,565	0.00
203	0.00	2,606.50	245.58	0.00	0.00	148,570.56	0.00	148,570.56	297,972,822	0.00
204	0.00	2,360.93	170.87	0.00	0.00	134,572.74	0.00	134,572.74	298,121,392	0.00
205	2,000.0	2,190.06	400.64	760,236.41	0.00	124,833.37	8,400,000.00	9,315,070	298,255,965	0.00
206	0.00	3,789.42	162.11	0.00	0.00	215,997.14	0.00	215,997.14	307,571,035	0.00
207	0.00	3,627.31	329.02	0.00	0.00	206,756.80	0.00	206,756.80	307,787,032	0.00
208	0.00	3,298.29	160.03	0.00	0.00	188,002.53	0.00	188,002.53	307,993,789	0.00
209	0.00	3,138.26	225.57	0.00	0.00	178,880.68	0.00	178,880.68	308,181,791	0.00
210	0.00	2,912.69	310.29	0.00	0.00	166,023.09	0.00	166,023.09	308,360,672	0.00
211	0.00	2,602.39	208.41	0.00	0.00	148,336.50	0.00	148,336.50	308,526,695	0.00
212	2,000.0	2,393.98	635.00	1,575,937	0.00	136,457.11	8,400,000.00	10,142,394	308,675,032	0.00
213	0.00	3,758.99	241.50	0.00	0.00	214,262.21	0.00	214,262.21	318,817,426	0.00
214	0.00	3,517.48	185.95	0.00	0.00	200,496.47	0.00	200,496.47	319,031,688	0.00
215	0.00	3,331.54	205.31	0.00	0.00	189,897.53	0.00	189,897.53	319,232,185	0.00
216	0.00	3,126.23	286.36	0.00	0.00	178,195.09	0.00	178,195.09	319,422,082	0.00
217	0.00	2,839.87	200.00	0.00	0.00	161,872.40	0.00	161,872.40	319,600,277	0.00
218	0.00	2,639.87	221.70	0.00	0.00	150,472.48	0.00	150,472.48	319,762,150	0.00
219	2,000.0	2,418.16	708.43	1,672,656	0.00	137,835.35	8,400,000.00	10,240,491	319,912,622	0.00
220	0.00	3,709.73	230.69	0.00	0.00	211,454.85	0.00	211,454.85	330,153,114	0.00
221	0.00	3,479.05	268.60	0.00	0.00	198,305.59	0.00	198,305.59	330,364,568	0.00
222	0.00	3,210.44	287.82	0.00	0.00	182,995.16	0.00	182,995.16	330,562,874	0.00
223	0.00	2,922.62	276.01	0.00	0.00	166,589.49	0.00	166,589.49	330,745,869	0.00

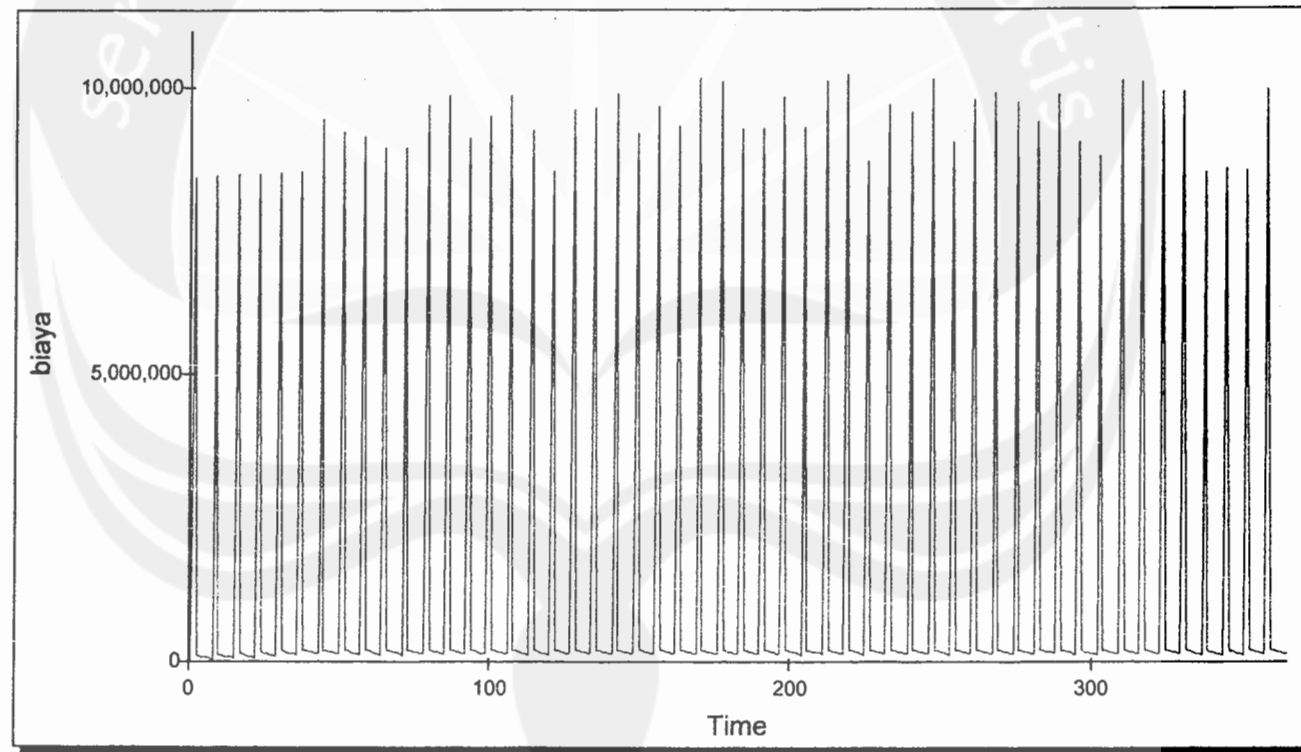
224	0.00	2,646.61	277.41	0.00	0.00	150,856.89	0.00	150,856.89	330,912,459	0.00
225	0.00	2,369.20	328.58	0.00	0.00	135,044.30	0.00	135,044.30	331,063,316	0.00
226	2,000.0	2,040.62	272.10	162,484.85	0.00	116,315.41	8,400,000.00	8,708,800	331,198,360	0.00
227	0.00	3,768.52	240.36	0.00	0.00	214,805.46	0.00	214,805.46	339,907,160	0.00
228	0.00	3,528.16	330.79	0.00	0.00	201,105.05	0.00	201,105.05	340,121,966	0.00
229	0.00	3,197.37	137.30	0.00	0.00	182,249.96	0.00	182,249.96	340,323,071	0.00
230	0.00	3,060.07	283.81	0.00	0.00	174,424.02	0.00	174,424.02	340,505,321	0.00
231	0.00	2,776.26	273.91	0.00	0.00	158,246.96	0.00	158,246.96	340,679,745	0.00
232	0.00	2,502.35	210.90	0.00	0.00	142,633.85	0.00	142,633.85	340,837,992	0.00
233	2,000.0	2,291.45	518.90	1,165,804	0.00	130,612.71	8,400,000.00	9,726,417	340,980,625	0.00
234	0.00	3,772.55	255.17	0.00	0.00	215,035.50	0.00	215,035.50	350,707,042	0.00
235	0.00	3,517.38	209.42	0.00	0.00	200,490.60	0.00	200,490.60	350,922,078	0.00
236	0.00	3,307.96	237.52	0.00	0.00	188,553.84	0.00	188,553.84	351,122,568	0.00
237	0.00	3,070.44	283.20	0.00	0.00	175,015.24	0.00	175,015.24	351,311,122	0.00
238	0.00	2,787.24	243.89	0.00	0.00	158,872.60	0.00	158,872.60	351,486,138	0.00
239	0.00	2,543.35	289.68	0.00	0.00	144,971.04	0.00	144,971.04	351,645,010	0.00
240	2,000.0	2,253.67	593.02	1,014,670	0.00	128,459.05	8,400,000.00	9,573,129	351,789,981	0.00
241	0.00	3,660.65	184.41	0.00	0.00	208,657.09	0.00	208,657.09	361,363,111	0.00
242	0.00	3,476.24	209.18	0.00	0.00	198,145.79	0.00	198,145.79	361,571,768	0.00
243	0.00	3,267.06	173.88	0.00	0.00	186,222.43	0.00	186,222.43	361,769,913	0.00
244	0.00	3,093.18	227.65	0.00	0.00	176,311.22	0.00	176,311.22	361,956,136	0.00
245	0.00	2,865.53	300.30	0.00	0.00	163,334.99	0.00	163,334.99	362,132,447	0.00
246	0.00	2,565.23	164.76	0.00	0.00	146,218.14	0.00	146,218.14	362,295,782	0.00
247	2,000.0	2,400.47	600.26	1,601,893	0.00	136,826.97	8,400,000.00	10,168,720	362,442,000	0.00
248	0.00	3,800.21	160.38	0.00	0.00	216,612.09	0.00	216,612.09	372,610,720	0.00
249	0.00	3,639.83	348.32	0.00	0.00	207,470.36	0.00	207,470.36	372,827,332	0.00
250	0.00	3,291.51	295.57	0.00	0.00	187,615.97	0.00	187,615.97	373,034,802	0.00
251	0.00	2,995.94	246.08	0.00	0.00	170,768.53	0.00	170,768.53	373,222,418	0.00
252	0.00	2,749.86	346.61	0.00	0.00	156,742.25	0.00	156,742.25	373,393,187	0.00
253	0.00	2,403.26	277.14	0.00	0.00	136,985.61	0.00	136,985.61	373,549,929	0.00
254	2,000.0	2,126.12	409.43	504,474.63	0.00	121,188.76	8,400,000.00	9,055,663	373,686,915	0.00
255	0.00	3,716.69	194.30	0.00	0.00	211,851.51	0.00	211,851.51	382,742,578	0.00
256	0.00	3,522.40	295.79	0.00	0.00	200,776.62	0.00	200,776.62	382,954,430	0.00
257	0.00	3,226.61	188.44	0.00	0.00	183,916.54	0.00	183,916.54	383,155,206	0.00
258	0.00	3,038.16	223.65	0.00	0.00	173,175.34	0.00	173,175.34	383,339,123	0.00
259	0.00	2,814.51	276.25	0.00	0.00	160,427.04	0.00	160,427.04	383,512,298	0.00
260	0.00	2,538.26	228.26	0.00	0.00	144,681.05	0.00	144,681.05	383,672,725	0.00
261	2,000.0	2,310.00	497.41	1,240,014	0.00	131,670.19	8,400,000.00	9,801,684	383,817,406	0.00
262	0.00	3,812.60	353.11	0.00	0.00	217,317.96	0.00	217,317.96	393,619,090	0.00

263	0.00	3,459.48	208.86	0.00	0.00	197,190.49	0.00	197,190.49	393,836,408	0.00
264	0.00	3,250.62	224.36	0.00	0.00	185,285.39	0.00	185,285.39	394,033,598	0.00
265	0.00	3,026.26	197.37	0.00	0.00	172,496.89	0.00	172,496.89	394,218,884	0.00
266	0.00	2,828.89	237.42	0.00	0.00	161,246.67	0.00	161,246.67	394,391,381	0.00
267	0.00	2,591.47	258.28	0.00	0.00	147,713.68	0.00	147,713.68	394,552,627	0.00
268	2,000.0	2,333.19	590.81	1,332,764	0.00	132,991.89	8,400,000.00	9,895,756	394,700,341	0.00
269	0.00	3,742.38	191.82	0.00	0.00	213,315.72	0.00	213,315.72	404,596,097	0.00
270	0.00	3,550.56	224.68	0.00	0.00	202,382.19	0.00	202,382.19	404,809,413	0.00
271	0.00	3,325.89	281.33	0.00	0.00	189,575.49	0.00	189,575.49	405,011,795	0.00
272	0.00	3,044.56	218.97	0.00	0.00	173,539.83	0.00	173,539.83	405,201,371	0.00
273	0.00	2,825.59	270.58	0.00	0.00	161,058.64	0.00	161,058.64	405,374,911	0.00
274	0.00	2,555.01	262.00	0.00	0.00	145,635.40	0.00	145,635.40	405,535,969	0.00
275	2,000.0	2,293.00	581.20	1,172,012	0.00	130,701.18	8,400,000.00	9,732,714	405,681,605	0.00
276	0.00	3,711.80	207.51	0.00	0.00	211,572.69	0.00	211,572.69	415,414,318	0.00
277	0.00	3,504.30	277.78	0.00	0.00	199,744.87	0.00	199,744.87	415,625,891	0.00
278	0.00	3,226.52	216.87	0.00	0.00	183,911.58	0.00	183,911.58	415,825,636	0.00
279	0.00	3,009.65	221.51	0.00	0.00	171,550.13	0.00	171,550.13	416,009,547	0.00
280	0.00	2,788.14	271.82	0.00	0.00	158,923.87	0.00	158,923.87	416,181,098	0.00
281	0.00	2,516.32	300.32	0.00	0.00	143,430.22	0.00	143,430.22	416,340,021	0.00
282	2,000.0	2,216.00	479.68	864,015.75	0.00	126,312.22	8,400,000.00	9,420,328	416,483,452	0.00
283	0.00	3,736.33	157.17	0.00	0.00	212,970.71	0.00	212,970.71	425,903,780	0.00
284	0.00	3,579.16	230.02	0.00	0.00	204,011.90	0.00	204,011.90	426,116,750	0.00
285	0.00	3,349.14	168.10	0.00	0.00	190,900.71	0.00	190,900.71	426,320,762	0.00
286	0.00	3,181.03	262.24	0.00	0.00	181,318.86	0.00	181,318.86	426,511,663	0.00
287	0.00	2,918.79	309.62	0.00	0.00	166,371.01	0.00	166,371.01	426,692,982	0.00
288	0.00	2,609.17	282.37	0.00	0.00	148,722.79	0.00	148,722.79	426,859,353	0.00
289	2,000.0	2,326.80	684.23	1,307,191	0.00	132,627.47	8,400,000.00	9,869,818	427,008,076	0.00
290	0.00	3,642.57	215.87	0.00	0.00	207,626.61	0.00	207,626.61	436,877,894	0.00
291	0.00	3,426.70	248.67	0.00	0.00	195,322.13	0.00	195,322.13	437,085,520	0.00
292	0.00	3,178.03	262.83	0.00	0.00	181,147.89	0.00	181,147.89	437,280,842	0.00
293	0.00	2,915.20	287.92	0.00	0.00	166,166.65	0.00	166,166.65	437,461,990	0.00
294	0.00	2,627.28	252.96	0.00	0.00	149,754.99	0.00	149,754.99	437,628,157	0.00
295	0.00	2,374.32	251.70	0.00	0.00	135,336.24	0.00	135,336.24	437,777,912	0.00
296	2,000.0	2,122.62	438.39	490,479.34	0.00	120,989.33	8,400,000.00	9,041,469	437,913,248	0.00
297	0.00	3,684.23	326.17	0.00	0.00	210,000.97	0.00	210,000.97	446,954,717	0.00
298	0.00	3,358.05	257.54	0.00	0.00	191,409.02	0.00	191,409.02	447,164,718	0.00
299	0.00	3,100.51	239.18	0.00	0.00	176,729.14	0.00	176,729.14	447,356,127	0.00
300	0.00	2,861.34	272.75	0.00	0.00	163,096.16	0.00	163,096.16	447,532,856	0.00
301	0.00	2,588.58	284.71	0.00	0.00	147,549.21	0.00	147,549.21	447,695,952	0.00

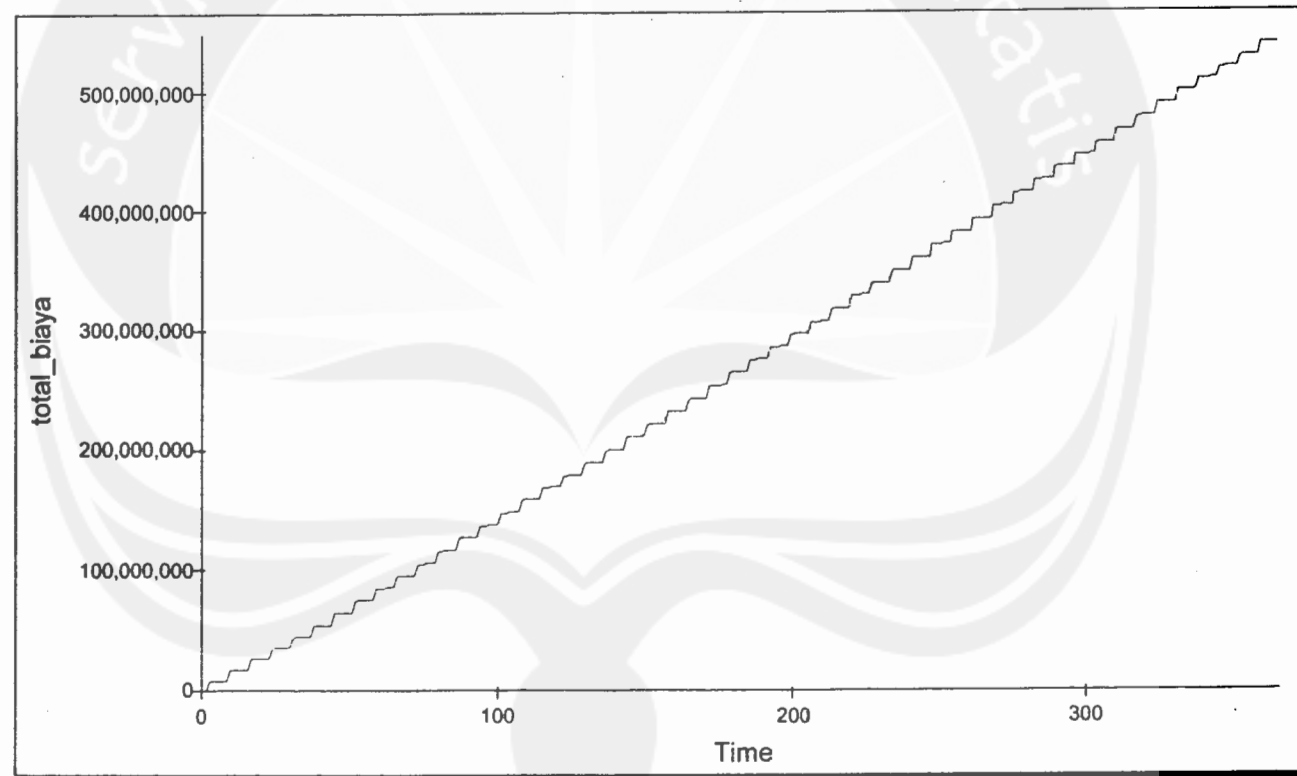
302	0.00	2,303.87	237.18	0.00	0.00	131,320.83	0.00	131,320.83	447,843,501	0.00
303	2,000.0	2,066.69	243.12	266,762.69	0.00	117,801.37	8,400,000.00	8,814,564	447,974,822	0.00
304	0.00	3,823.57	281.91	0.00	0.00	217,943.77	0.00	217,943.77	456,789,386	0.00
305	0.00	3,541.66	232.37	0.00	0.00	201,874.77	0.00	201,874.77	457,007,330	0.00
306	0.00	3,309.30	223.44	0.00	0.00	188,629.96	0.00	188,629.96	457,209,205	0.00
307	0.00	3,085.85	276.04	0.00	0.00	175,893.66	0.00	175,893.66	457,397,835	0.00
308	0.00	2,809.82	231.01	0.00	0.00	160,159.63	0.00	160,159.63	457,573,728	0.00
309	0.00	2,578.81	191.40	0.00	0.00	146,991.92	0.00	146,991.92	457,733,888	0.00
310	2,000.0	2,387.40	646.70	1,549,611	0.00	136,081.95	8,400,000.00	10,115,692	457,880,880	0.00
311	0.00	3,740.70	213.32	0.00	0.00	213,220.02	0.00	213,220.02	467,996,573	0.00
312	0.00	3,527.38	175.30	0.00	0.00	201,060.93	0.00	201,060.93	468,209,793	0.00
313	0.00	3,352.08	189.55	0.00	0.00	191,068.75	0.00	191,068.75	468,410,853	0.00
314	0.00	3,162.54	263.25	0.00	0.00	180,264.51	0.00	180,264.51	468,601,922	0.00
315	0.00	2,899.28	246.94	0.00	0.00	165,259.02	0.00	165,259.02	468,782,187	0.00
316	0.00	2,652.34	267.78	0.00	0.00	151,183.24	0.00	151,183.24	468,947,446	0.00
317	2,000.0	2,384.56	556.17	1,538,242	0.00	135,919.95	8,400,000.00	10,104,162	469,098,629	0.00
318	0.00	3,828.39	253.39	0.00	0.00	218,218.44	0.00	218,218.44	479,202,791	0.00
319	0.00	3,575.01	237.45	0.00	0.00	203,775.40	0.00	203,775.40	479,421,009	0.00
320	0.00	3,337.56	245.65	0.00	0.00	190,240.64	0.00	190,240.64	479,624,785	0.00
321	0.00	3,091.90	317.02	0.00	0.00	176,238.42	0.00	176,238.42	479,815,025	0.00
322	0.00	2,774.88	253.24	0.00	0.00	158,168.05	0.00	158,168.05	479,991,264	0.00
323	0.00	2,521.63	178.80	0.00	0.00	143,733.15	0.00	143,733.15	480,149,432	0.00
324	2,000.0	2,342.84	587.40	1,371,356	0.00	133,541.82	8,400,000.00	9,934,898	480,293,165	0.00
325	0.00	3,755.44	211.07	0.00	0.00	214,060.24	0.00	214,060.24	490,228,062	0.00
326	0.00	3,544.37	217.49	0.00	0.00	202,029.25	0.00	202,029.25	490,442,123	0.00
327	0.00	3,326.88	264.70	0.00	0.00	189,632.06	0.00	189,632.06	490,644,152	0.00
328	0.00	3,062.18	161.27	0.00	0.00	174,544.06	0.00	174,544.06	490,833,784	0.00
329	0.00	2,900.90	285.66	0.00	0.00	165,351.44	0.00	165,351.44	491,008,328	0.00
330	0.00	2,615.24	269.16	0.00	0.00	149,068.59	0.00	149,068.59	491,173,679	0.00
331	2,000.0	2,346.08	592.95	1,384,310	0.00	133,726.42	8,400,000.00	9,948,037	491,322,748	0.00
332	0.00	3,753.13	291.46	0.00	0.00	213,928.42	0.00	213,928.42	501,270,785	0.00
333	0.00	3,461.67	329.68	0.00	0.00	197,315.10	0.00	197,315.10	501,484,713	0.00
334	0.00	3,131.99	417.74	0.00	0.00	178,523.45	0.00	178,523.45	501,682,028	0.00
335	0.00	2,714.25	248.83	0.00	0.00	154,712.51	0.00	154,712.51	501,860,552	0.00
336	0.00	2,465.42	324.99	0.00	0.00	140,529.18	0.00	140,529.18	502,015,264	0.00
337	0.00	2,140.43	255.61	0.00	0.00	122,004.79	0.00	122,004.79	502,155,793	0.00
338	2,000.0	1,884.82	350.14	0.00	0.00	107,434.94	8,400,000.00	8,537,435	502,277,798	0.00
339	0.00	3,534.68	246.73	0.00	0.00	201,476.94	0.00	201,476.94	510,815,233	0.00
340	0.00	3,287.95	200.56	0.00	0.00	187,413.41	0.00	187,413.41	511,016,710	0.00

341	0.00	3,087.39	250.12	0.00	0.00	175,981.30	0.00	175,981.30	511,204,123	0.00
342	0.00	2,837.27	274.97	0.00	0.00	161,724.24	0.00	161,724.24	511,380,105	0.00
343	0.00	2,562.29	237.64	0.00	0.00	146,050.75	0.00	146,050.75	511,541,829	0.00
344	0.00	2,324.65	317.18	0.00	0.00	132,505.13	0.00	132,505.13	511,687,880	0.00
345	2,000.0	2,007.47	295.40	29,886.18	0.00	114,425.88	8,400,000.00	8,574,312	511,820,385	0.00
346	0.00	3,712.08	267.61	0.00	0.00	211,588.32	0.00	211,588.32	520,394,697	0.00
347	0.00	3,444.46	274.42	0.00	0.00	196,334.46	0.00	196,334.46	520,606,285	0.00
348	0.00	3,170.04	334.56	0.00	0.00	180,692.46	0.00	180,692.46	520,802,620	0.00
349	0.00	2,835.48	258.07	0.00	0.00	161,622.50	0.00	161,622.50	520,983,312	0.00
350	0.00	2,577.42	291.71	0.00	0.00	146,912.66	0.00	146,912.66	521,144,935	0.00
351	0.00	2,285.70	294.14	0.00	0.00	130,285.09	0.00	130,285.09	521,291,847	0.00
352	2,000.0	1,991.57	218.68	0.00	0.00	113,519.31	8,400,000.00	8,543,519	521,422,132	0.00
353	0.00	3,772.88	304.16	0.00	0.00	215,054.43	0.00	215,054.43	529,965,652	0.00
354	0.00	3,468.72	186.09	0.00	0.00	197,717.03	0.00	197,717.03	530,180,706	0.00
355	0.00	3,282.63	300.72	0.00	0.00	187,109.71	0.00	187,109.71	530,378,423	0.00
356	0.00	2,981.91	290.33	0.00	0.00	169,968.72	0.00	169,968.72	530,565,533	0.00
357	0.00	2,691.58	175.69	0.00	0.00	153,420.13	0.00	153,420.13	530,735,501	0.00
358	0.00	2,515.89	168.59	0.00	0.00	143,405.85	0.00	143,405.85	530,888,922	0.00
359	2,000.0	2,347.31	576.89	1,389,222	0.00	133,796.41	8,400,000.00	9,953,018	531,032,327	0.00
360	0.00	3,770.42	213.12	0.00	0.00	214,913.95	0.00	214,913.95	540,985,346	0.00
361	0.00	3,557.30	266.49	0.00	0.00	202,765.94	0.00	202,765.94	541,200,260	0.00
362	0.00	3,290.81	193.19	0.00	0.00	187,576.04	0.00	187,576.04	541,403,026	0.00
363	0.00	3,097.62	347.45	0.00	0.00	176,564.23	0.00	176,564.23	541,590,602	0.00
364	0.00	2,750.16	218.46	0.00	0.00	156,759.35	0.00	156,759.35	541,767,166	0.00
365	0.00	2,531.70	346.12	0.00	0.00	144,307.04	0.00	144,307.04	541,923,925	0.00

GRAFIK BIAYA IKAN SKENARIO 2, PERIODE PEMASUKAN 7 HARI



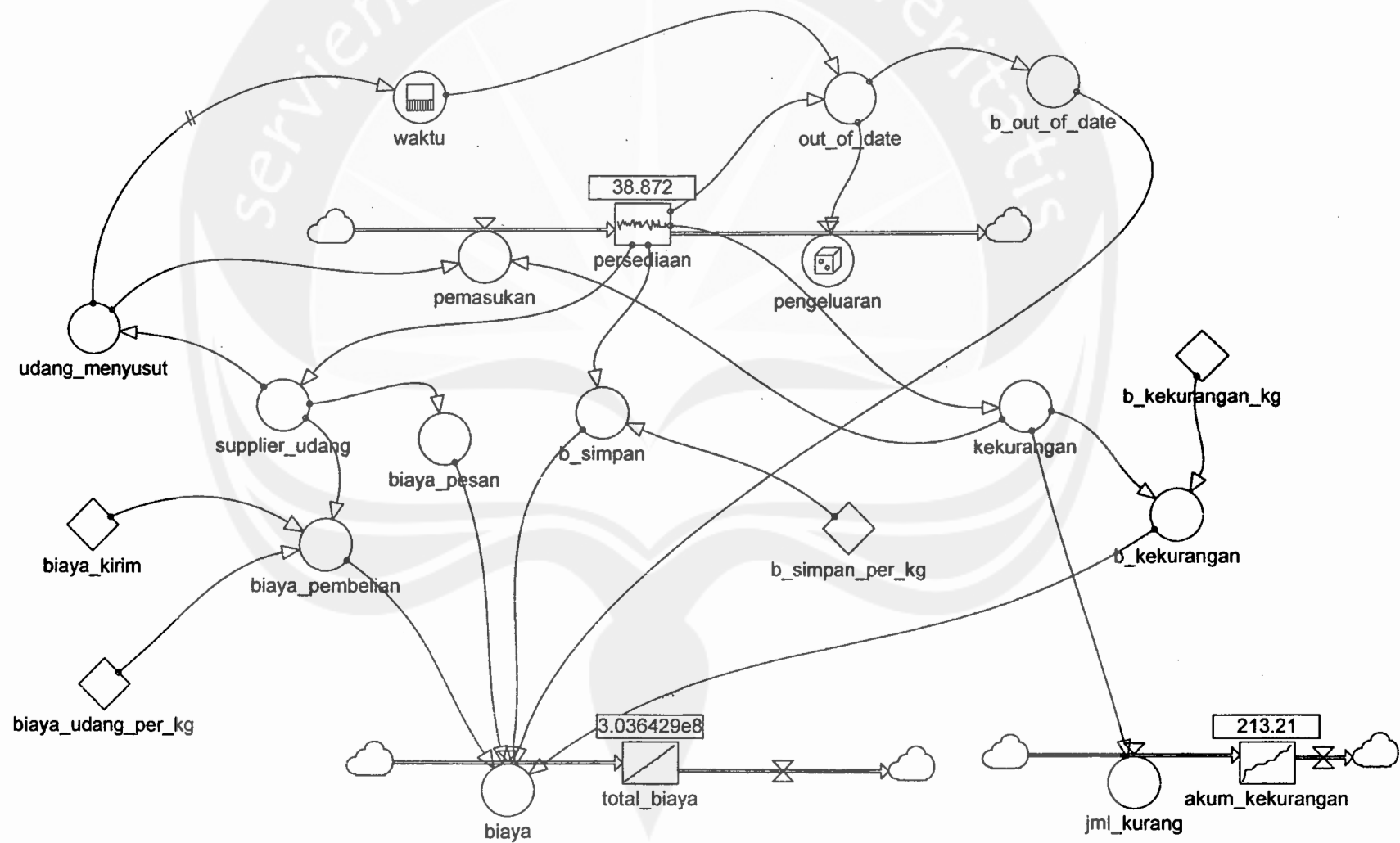
GRAFIK TOTAL BIAYA ikan SKENARIO 2, PERIODE PEMASUKAN 7 HARI





SISTEM PERSEDIAAN UDANG SKENARIO 3, TINGKAT REORDER POINT <135 KG

155



- ☐ akumul_kurungan
☐ 0
 $\Rightarrow +dt*jml_kurang$
- ☐ persediaan
☐ 100
 $\Rightarrow -dt*pengeluaran$
 $\Rightarrow +dt*pemasukan$
☐ persediaan dari 31 desember 2005
- ☐ total_biaya
☐ 0
 $\Rightarrow +dt*biaya$
- ☐ biaya
 $= b_kekurangan+b_simpan+biaya_pembelian+biaya_pesan+b_out_of_date$
- ☐ jml_kurang
 $= kekurangan$
- ☐ pemasukan
 $= udang_menyusut+kekurangan$
- ☐ pengeluaran
 $= out_of_date+NORMAL(125, 25.9)$
- ☐ b_kekurangan
 $= kekurangan*b_kekurangan_kg$
- ☐ b_out_of_date
 $= out_of_date*6000$
- ☐ b_simpan
 $= IF(persediaan>0, persediaan*b_simpan_per_kg, 0)$
- ☐ biaya_pembelian
 $= biaya_udang_per_kg*supplier_udang+IF(supplier_udang>0, biaya_kirim, 0)$
- ☐ biaya_pesan
 $= IF(supplier_udang>0, 7000, 0)$
- ☐ kekurangan
 $= IF(persediaan<0, -persediaan, 0)$
- ☐ out_of_date
 $= IF(waktu>0, IF(persediaan>waktu, persediaan-waktu, 0), 0)$
- ☐ supplier_udang
 $= IF(persediaan<135, 200, 0)$
- ☐ udang_menyusut
 $= supplier_udang-supplier_udang*0.05$
- ☐ waktu
 $= DELAYPPL(udang_menyusut, 3, 0)$

- ◇ b_kekurangan_kg
= 5600
- ◇ b_simpan_per_kg
= 48
- ◇ biaya_kirim
= 30000
- ◇ biaya_udang_per_kg
= 6000

TABEL SIMULASI DATA UDANG SKENARIO 3, TINGKAT REORDER POINT <135 KG

Time	emasuka	ersedia	ngeluar	out of d	kekurang	b simpan	biaya pembelian	biaya	total biaya	upplier ud	waktu	m kekurangan
0	190.00	100.00	92.22	0.00	0.00	4,800.00	1,230,000.00	1,241,800.00	0.00	200.00	0.00	0.00
1	0.00	197.78	117.70	0.00	0.00	9,493.59	0.00	9,493.59	1,241,800.00	0.00	0.00	0.00
2	190.00	80.08	97.95	0.00	0.00	3,844.08	1,230,000.00	1,240,844.08	1,251,293.59	200.00	0.00	0.00
3	0.00	172.14	78.41	0.00	0.00	8,262.65	0.00	8,262.65	2,492,137.67	0.00	190.00	0.00
4	190.00	93.73	117.24	0.00	0.00	4,499.09	1,230,000.00	1,241,499.09	2,500,400.32	200.00	0.00	0.00
5	0.00	166.49	125.70	0.00	0.00	7,991.34	0.00	7,991.34	3,741,899.41	0.00	190.00	0.00
6	190.00	40.79	94.10	0.00	0.00	1,957.94	1,230,000.00	1,238,957.94	3,749,890.76	200.00	0.00	0.00
7	0.00	136.69	120.67	0.00	0.00	6,561.26	0.00	6,561.26	4,988,848.69	0.00	190.00	0.00
8	190.00	16.03	149.03	0.00	0.00	769.23	1,230,000.00	1,237,769.23	4,995,409.95	200.00	0.00	0.00
9	190.00	56.99	124.77	0.00	0.00	2,735.67	1,230,000.00	1,239,735.67	6,233,179.18	200.00	190.00	0.00
10	190.00	122.22	128.23	0.00	0.00	5,866.51	1,230,000.00	1,242,866.51	7,472,914.85	200.00	0.00	0.00
11	0.00	183.98	112.35	0.00	0.00	8,831.23	0.00	8,831.23	8,715,781.36	0.00	190.00	0.00
12	190.00	71.63	120.62	0.00	0.00	3,438.35	1,230,000.00	1,240,438.35	8,724,612.59	200.00	190.00	0.00
13	0.00	141.01	165.15	0.00	0.00	6,768.70	0.00	6,768.70	9,965,050.94	0.00	190.00	0.00
14	214.14	-24.14	173.08	0.00	135,174	0.00	1,230,000.00	1,372,173.69	9,971,819.64	200.00	0.00	0.00
15	190.00	16.92	95.46	0.00	0.00	812.14	1,230,000.00	1,237,812.14	11,343,993.3	200.00	190.00	24.14
16	190.00	111.46	144.05	0.00	0.00	5,350.00	1,230,000.00	1,242,350.00	12,581,805.5	200.00	0.00	24.14
17	0.00	157.41	146.36	0.00	0.00	7,555.72	0.00	7,555.72	13,824,155.5	0.00	190.00	24.14
18	190.00	11.05	123.65	0.00	0.00	530.42	1,230,000.00	1,237,530.42	13,831,711.2	200.00	190.00	24.14
19	190.00	77.40	130.46	0.00	0.00	3,715.04	1,230,000.00	1,240,715.04	15,069,241.6	200.00	190.00	24.14
20	0.00	136.94	174.28	0.00	0.00	6,573.01	0.00	6,573.01	16,309,956.7	0.00	0.00	24.14
21	227.35	-37.35	129.44	0.00	209,142	0.00	1,230,000.00	1,446,142.04	16,316,529.7	200.00	190.00	24.14
22	190.00	60.56	105.55	0.00	0.00	2,906.93	1,230,000.00	1,239,906.93	17,762,671.7	200.00	190.00	61.48
23	0.00	145.01	121.05	0.00	0.00	6,960.49	0.00	6,960.49	19,002,578.6	0.00	0.00	61.48
24	190.00	23.96	127.59	0.00	0.00	1,150.31	1,230,000.00	1,238,150.31	19,009,539.1	200.00	190.00	61.48
25	190.00	86.38	111.20	0.00	0.00	4,146.13	1,230,000.00	1,241,146.13	20,247,689.4	200.00	190.00	61.48
26	0.00	165.17	119.82	0.00	0.00	7,928.33	0.00	7,928.33	21,488,835.6	0.00	0.00	61.48
27	190.00	45.36	95.63	0.00	0.00	2,177.12	1,230,000.00	1,239,177.12	21,496,763.9	200.00	190.00	61.48
28	0.00	139.72	149.12	0.00	0.00	6,706.79	0.00	6,706.79	22,735,941.0	0.00	190.00	61.48
29	199.39	-9.39	145.52	0.00	52,592	0.00	1,230,000.00	1,289,592.08	22,742,647.8	200.00	0.00	61.48
30	190.00	44.48	97.01	0.00	0.00	2,135.13	1,230,000.00	1,239,135.13	24,032,239.9	200.00	190.00	70.88

31	0.00	137.47	115.08	0.00	0.00	6,598.52	0.00	6,598.52	25,271,375.0	0.00	0.00	70.88
32	190.00	22.39	96.49	0.00	0.00	1,074.78	1,230,000.00	1,238,074.78	25,277,973.5	200.00	190.00	70.88
33	190.00	115.91	148.29	0.00	0.00	5,563.48	1,230,000.00	1,242,563.48	26,516,048.3	200.00	190.00	70.88
34	0.00	157.61	135.63	0.00	0.00	7,565.44	0.00	7,565.44	27,758,611.8	0.00	0.00	70.88
35	190.00	21.98	101.12	0.00	0.00	1,055.10	1,230,000.00	1,238,055.10	27,766,177.2	200.00	190.00	70.88
36	190.00	110.86	101.49	0.00	0.00	5,321.21	1,230,000.00	1,242,321.21	29,004,232.3	200.00	190.00	70.88
37	0.00	199.37	59.53	0.00	0.00	9,569.70	0.00	9,569.70	30,246,553.5	0.00	0.00	70.88
38	0.00	139.84	93.51	0.00	0.00	6,712.24	0.00	6,712.24	30,256,123.3	0.00	190.00	70.88
39	190.00	46.33	130.37	0.00	0.00	2,223.84	1,230,000.00	1,239,223.84	30,262,835.5	200.00	190.00	70.88
40	190.00	105.96	163.16	0.00	0.00	5,086.08	1,230,000.00	1,242,086.08	31,502,059.3	200.00	0.00	70.88
41	190.00	132.80	102.64	0.00	0.00	6,374.43	1,230,000.00	1,243,374.43	32,744,145.4	200.00	0.00	70.88
42	0.00	220.16	137.43	1.81e5	0.00	10,567.53	0.00	191,508.41	33,987,519.8	0.00	190.00	70.88
43	190.00	82.73	167.31	0.00	0.00	3,971.04	1,230,000.00	1,240,971.04	34,179,028.3	200.00	190.00	70.88
44	190.00	105.42	114.66	0.00	0.00	5,060.18	1,230,000.00	1,242,060.18	35,419,999.3	200.00	190.00	70.88
45	0.00	180.76	141.76	0.00	0.00	8,676.56	0.00	8,676.56	36,662,059.5	0.00	0.00	70.88
46	190.00	39.00	80.18	0.00	0.00	1,872.10	1,230,000.00	1,238,872.10	36,670,736.0	200.00	190.00	70.88
47	0.00	148.82	72.26	0.00	0.00	7,143.27	0.00	7,143.27	37,909,608.1	0.00	190.00	70.88
48	190.00	76.56	131.67	0.00	0.00	3,675.03	1,230,000.00	1,240,675.03	37,916,751.4	200.00	0.00	70.88
49	190.00	134.89	135.45	0.00	0.00	6,474.78	1,230,000.00	1,243,474.78	39,157,426.4	200.00	190.00	70.88
50	0.00	189.44	121.61	0.00	0.00	9,093.01	0.00	9,093.01	40,400,901.2	0.00	0.00	70.88
51	190.00	67.82	165.25	0.00	0.00	3,255.59	1,230,000.00	1,240,255.59	40,409,994.2	200.00	190.00	70.88
52	190.00	92.58	127.42	0.00	0.00	4,443.82	1,230,000.00	1,241,443.82	41,650,249.8	200.00	190.00	70.88
53	0.00	155.16	154.35	0.00	0.00	7,447.55	0.00	7,447.55	42,891,693.6	0.00	0.00	70.88
54	190.00	0.804	98.03	0.00	0.00	38.59	1,230,000.00	1,237,038.59	42,899,141.2	200.00	190.00	70.88
55	190.00	92.78	163.71	0.00	0.00	4,453.24	1,230,000.00	1,241,453.24	44,136,179.8	200.00	190.00	70.88
56	190.00	119.07	103.07	0.00	0.00	5,715.14	1,230,000.00	1,242,715.14	45,377,633.0	200.00	0.00	70.88
57	0.00	205.99	170.53	95,951	0.00	9,887.61	0.00	105,838.84	46,620,348.2	0.00	190.00	70.88
58	190.00	35.46	107.62	0.00	0.00	1,702.31	1,230,000.00	1,238,702.31	46,726,187.0	200.00	190.00	70.88
59	190.00	117.84	124.91	0.00	0.00	5,656.36	1,230,000.00	1,242,656.36	47,964,889.3	200.00	190.00	70.88
60	0.00	182.93	116.21	0.00	0.00	8,780.65	0.00	8,780.65	49,207,545.7	0.00	0.00	70.88
61	190.00	66.72	132.51	0.00	0.00	3,202.71	1,230,000.00	1,240,202.71	49,216,326.3	200.00	190.00	70.88
62	190.00	124.22	106.23	0.00	0.00	5,962.38	1,230,000.00	1,242,962.38	50,456,529.0	200.00	190.00	70.88
63	0.00	207.99	135.11	0.00	0.00	9,983.55	0.00	9,983.55	51,699,491.4	0.00	0.00	70.88
64	190.00	72.88	136.80	0.00	0.00	3,498.47	1,230,000.00	1,240,498.47	51,709,475.0	200.00	190.00	70.88
65	190.00	126.08	145.22	0.00	0.00	6,051.95	1,230,000.00	1,243,051.95	52,949,973.4	200.00	190.00	70.88
66	0.00	170.87	95.45	0.00	0.00	8,201.62	0.00	8,201.62	54,193,025.4	0.00	0.00	70.88
67	190.00	75.41	104.20	0.00	0.00	3,619.87	1,230,000.00	1,240,619.87	54,201,227.0	200.00	190.00	70.88
68	0.00	161.21	84.46	0.00	0.00	7,738.14	0.00	7,738.14	55,441,846.9	0.00	190.00	70.88
69	190.00	76.75	122.29	0.00	0.00	3,684.03	1,230,000.00	1,240,684.03	55,449,585.0	200.00	0.00	70.88

70	0.00	144.46	136.54	0.00	0.00	6,934.27	0.00	6,934.27	56,690,269.0	0.00	190.00	70.88
71	190.00	7.92	129.23	0.00	0.00	380.26	1,230,000.00	1,237,380.26	56,697,203.3	200.00	0.00	70.88
72	190.00	68.70	114.69	0.00	0.00	3,297.43	1,230,000.00	1,240,297.43	57,934,583.6	200.00	190.00	70.88
73	0.00	144.00	130.33	0.00	0.00	6,912.11	0.00	6,912.11	59,174,881.0	0.00	0.00	70.88
74	190.00	13.67	179.13	0.00	0.00	656.29	1,230,000.00	1,237,656.29	59,181,793.1	200.00	190.00	70.88
75	190.00	24.54	108.74	0.00	0.00	1,177.94	1,230,000.00	1,238,177.94	60,419,449.4	200.00	190.00	70.88
76	190.00	105.80	116.17	0.00	0.00	5,078.36	1,230,000.00	1,242,078.36	61,657,627.3	200.00	0.00	70.88
77	0.00	179.62	158.90	0.00	0.00	8,622.00	0.00	8,622.00	62,899,705.7	0.00	190.00	70.88
78	190.00	20.73	123.75	0.00	0.00	994.94	1,230,000.00	1,237,994.94	62,908,327.7	200.00	190.00	70.88
79	190.00	86.98	148.44	0.00	0.00	4,174.85	1,230,000.00	1,241,174.85	64,146,322.6	200.00	190.00	70.88
80	190.00	128.53	88.30	0.00	0.00	6,169.50	1,230,000.00	1,243,169.50	65,387,497.5	200.00	0.00	70.88
81	0.00	230.23	209.45	2.41e5	0.00	11,051.03	0.00	252,429.44	66,630,667.0	0.00	190.00	70.88
82	190.00	20.78	153.74	0.00	0.00	997.63	1,230,000.00	1,237,997.63	66,883,096.4	200.00	190.00	70.88
83	190.00	57.05	101.29	0.00	0.00	2,738.32	1,230,000.00	1,239,738.32	68,121,094.0	200.00	190.00	70.88
84	0.00	145.76	159.73	0.00	0.00	6,996.63	0.00	6,996.63	69,360,832.3	0.00	0.00	70.88
85	203.96	-13.96	167.39	0.00	78,187	0.00	1,230,000.00	1,315,186.84	69,367,829.0	200.00	190.00	70.88
86	190.00	22.61	57.40	0.00	0.00	1,085.07	1,230,000.00	1,238,085.07	70,683,015.8	200.00	190.00	84.84
87	0.00	155.21	87.59	0.00	0.00	7,449.89	0.00	7,449.89	71,921,100.9	0.00	0.00	84.84
88	190.00	67.62	106.28	0.00	0.00	3,245.59	1,230,000.00	1,240,245.59	71,928,550.8	200.00	190.00	84.84
89	0.00	151.34	128.26	0.00	0.00	7,264.16	0.00	7,264.16	73,168,796.4	0.00	190.00	84.84
90	190.00	23.08	113.52	0.00	0.00	1,107.91	1,230,000.00	1,238,107.91	73,176,060.5	200.00	0.00	84.84
91	190.00	99.56	135.46	0.00	0.00	4,778.98	1,230,000.00	1,241,778.98	74,414,168.4	200.00	190.00	84.84
92	0.00	154.10	121.82	0.00	0.00	7,396.92	0.00	7,396.92	75,655,947.4	0.00	0.00	84.84
93	190.00	32.28	122.75	0.00	0.00	1,549.56	1,230,000.00	1,238,549.56	75,663,344.4	200.00	190.00	84.84
94	190.00	99.53	195.87	0.00	0.00	4,777.38	1,230,000.00	1,241,777.38	76,901,893.9	200.00	190.00	84.84
95	190.00	93.66	136.76	0.00	0.00	4,495.85	1,230,000.00	1,241,495.85	78,143,671.3	200.00	0.00	84.84
96	0.00	146.90	164.99	0.00	0.00	7,051.28	0.00	7,051.28	79,385,167.1	0.00	190.00	84.84
97	208.09	-18.09	173.06	0.00	101,276	0.00	1,230,000.00	1,338,276.06	79,392,218.4	200.00	190.00	84.84
98	190.00	16.94	83.66	0.00	0.00	813.09	1,230,000.00	1,237,813.09	80,730,494.5	200.00	190.00	102.92
99	190.00	123.27	101.62	0.00	0.00	5,917.18	1,230,000.00	1,242,917.18	81,968,307.6	200.00	0.00	102.92
100	0.00	211.65	108.60	1.3e5	0.00	10,159.43	0.00	140,087.66	83,211,224.8	0.00	190.00	102.92
101	190.00	103.06	91.98	0.00	0.00	4,946.74	1,230,000.00	1,241,946.74	83,351,312.4	200.00	190.00	102.92
102	0.00	201.08	82.69	66,465	0.00	9,651.72	0.00	76,116.80	84,593,259.1	0.00	190.00	102.92
103	190.00	118.39	177.55	0.00	0.00	5,682.74	1,230,000.00	1,242,682.74	84,669,376.0	200.00	0.00	102.92
104	190.00	130.84	124.89	0.00	0.00	6,280.24	1,230,000.00	1,243,280.24	85,912,058.7	200.00	190.00	102.92
105	0.00	195.95	148.47	0.00	0.00	9,405.42	0.00	9,405.42	87,155,338.9	0.00	0.00	102.92
106	190.00	47.47	108.64	0.00	0.00	2,278.76	1,230,000.00	1,239,278.76	87,164,744.3	200.00	190.00	102.92
107	190.00	128.83	113.67	0.00	0.00	6,184.00	1,230,000.00	1,243,184.00	88,404,023.1	200.00	190.00	102.92
108	0.00	205.16	115.79	0.00	0.00	9,847.72	0.00	9,847.72	89,647,207.1	0.00	0.00	102.92

109	190.00	89.37	75.29	0.00	0.00	4,289.79	1,230,000.00	1,241,289.79	89,657,054.8	200.00	190.00	102.92
110	0.00	204.08	118.16	84,455	0.00	9,795.64	0.00	94,250.46	90,898,344.6	0.00	190.00	102.92
111	190.00	85.92	141.38	0.00	0.00	4,124.07	1,230,000.00	1,241,124.07	90,992,595.1	200.00	0.00	102.92
112	190.00	134.54	119.51	0.00	0.00	6,457.86	1,230,000.00	1,243,457.86	92,233,719.1	200.00	190.00	102.92
113	0.00	205.03	115.79	0.00	0.00	9,841.55	0.00	9,841.55	93,477,177.0	0.00	0.00	102.92
114	190.00	89.25	98.95	0.00	0.00	4,283.86	1,230,000.00	1,241,283.86	93,487,018.6	200.00	190.00	102.92
115	0.00	180.30	130.50	0.00	0.00	8,654.18	0.00	8,654.18	94,728,302.4	0.00	190.00	102.92
116	190.00	49.80	127.70	0.00	0.00	2,390.30	1,230,000.00	1,239,390.30	94,736,956.6	200.00	0.00	102.92
117	190.00	112.10	179.94	0.00	0.00	5,380.92	1,230,000.00	1,242,380.92	95,976,346.9	200.00	190.00	102.92
118	190.00	122.16	99.59	0.00	0.00	5,863.84	1,230,000.00	1,242,863.84	97,218,727.8	200.00	0.00	102.92
119	0.00	212.57	135.35	1.35e5	0.00	10,203.42	0.00	145,631.14	98,461,591.6	0.00	190.00	102.92
120	190.00	77.23	129.01	0.00	0.00	3,706.81	1,230,000.00	1,240,706.81	98,607,222.8	200.00	190.00	102.92
121	0.00	138.21	122.46	0.00	0.00	6,634.25	0.00	6,634.25	99,847,929.6	0.00	190.00	102.92
122	190.00	15.76	110.11	0.00	0.00	756.40	1,230,000.00	1,237,756.40	99,854,563.8	200.00	0.00	102.92
123	190.00	95.65	103.67	0.00	0.00	4,591.30	1,230,000.00	1,241,591.30	101,092,320	200.00	190.00	102.92
124	0.00	181.98	117.57	0.00	0.00	8,735.14	0.00	8,735.14	102,333,912	0.00	0.00	102.92
125	190.00	64.41	162.79	0.00	0.00	3,091.75	1,230,000.00	1,240,091.75	102,342,647	200.00	190.00	102.92
126	190.00	91.62	75.30	0.00	0.00	4,397.98	1,230,000.00	1,241,397.98	103,582,738	200.00	190.00	102.92
127	0.00	206.32	64.79	0.00	0.00	9,903.54	0.00	9,903.54	104,824,136	0.00	0.00	102.92
128	0.00	141.53	106.17	0.00	0.00	6,793.40	0.00	6,793.40	104,834,040	0.00	190.00	102.92
129	190.00	35.36	116.51	0.00	0.00	1,697.43	1,230,000.00	1,238,697.43	104,840,833	200.00	190.00	102.92
130	190.00	108.85	158.73	0.00	0.00	5,225.03	1,230,000.00	1,242,225.03	106,079,531	200.00	0.00	102.92
131	0.00	140.12	121.15	0.00	0.00	6,725.99	0.00	6,725.99	107,321,756	0.00	0.00	102.92
132	190.00	18.97	68.14	0.00	0.00	910.74	1,230,000.00	1,237,910.74	107,328,482	200.00	190.00	102.92
133	0.00	140.84	95.36	0.00	0.00	6,760.18	0.00	6,760.18	108,566,393	0.00	190.00	102.92
134	190.00	45.47	117.97	0.00	0.00	2,182.79	1,230,000.00	1,239,182.79	108,573,153	200.00	0.00	102.92
135	190.00	117.51	174.37	0.00	0.00	5,640.37	1,230,000.00	1,242,640.37	109,812,336	200.00	190.00	102.92
136	190.00	133.14	127.04	0.00	0.00	6,390.69	1,230,000.00	1,243,390.69	111,054,976	200.00	0.00	102.92
137	0.00	196.09	121.68	36,566	0.00	9,412.53	0.00	45,978.95	112,298,367	0.00	190.00	102.92
138	190.00	74.41	158.59	0.00	0.00	3,571.90	1,230,000.00	1,240,571.90	112,344,346	200.00	190.00	102.92
139	190.00	105.83	120.07	0.00	0.00	5,079.79	1,230,000.00	1,242,079.79	113,584,917	200.00	190.00	102.92
140	0.00	175.75	49.47	0.00	0.00	8,436.22	0.00	8,436.22	114,826,997	0.00	0.00	102.92
141	190.00	126.28	112.33	0.00	0.00	6,061.68	1,230,000.00	1,243,061.68	114,835,433	200.00	190.00	102.92
142	0.00	203.95	164.57	83,717	0.00	9,789.74	0.00	93,506.63	116,078,495	0.00	190.00	102.92
143	190.00	39.38	142.23	0.00	0.00	1,890.33	1,230,000.00	1,238,890.33	116,172,002	200.00	0.00	102.92
144	190.00	87.15	118.43	0.00	0.00	4,183.26	1,230,000.00	1,241,183.26	117,410,892	200.00	190.00	102.92
145	0.00	158.72	109.67	0.00	0.00	7,618.77	0.00	7,618.77	118,652,075	0.00	0.00	102.92
146	190.00	49.06	158.62	0.00	0.00	2,354.65	1,230,000.00	1,239,354.65	118,659,694	200.00	190.00	102.92
147	190.00	80.43	165.86	0.00	0.00	3,860.74	1,230,000.00	1,240,860.74	119,899,049	200.00	190.00	102.92

148	190.00	104.58	155.11	0.00	0.00	5,019.68	1,230,000.00	1,242,019.68	121,139,909	200.00	0.00	102.92
149	0.00	139.47	86.03	0.00	0.00	6,694.37	0.00	6,694.37	122,381,929	0.00	190.00	102.92
150	190.00	53.44	153.55	0.00	0.00	2,565.15	1,230,000.00	1,239,565.15	122,388,624	200.00	190.00	102.92
151	190.00	89.89	134.45	0.00	0.00	4,314.77	1,230,000.00	1,241,314.77	123,628,189	200.00	190.00	102.92
152	0.00	145.44	93.70	0.00	0.00	6,981.20	0.00	6,981.20	124,869,503	0.00	0.00	102.92
153	190.00	51.75	63.01	0.00	0.00	2,483.78	1,230,000.00	1,239,483.78	124,876,485	200.00	190.00	102.92
154	0.00	178.73	104.43	0.00	0.00	8,579.12	0.00	8,579.12	126,115,968	0.00	190.00	102.92
155	190.00	74.31	136.56	0.00	0.00	3,566.71	1,230,000.00	1,240,566.71	126,124,548	200.00	0.00	102.92
156	190.00	127.75	126.74	0.00	0.00	6,131.95	1,230,000.00	1,243,131.95	127,365,114	200.00	190.00	102.92
157	0.00	191.01	97.47	0.00	0.00	9,168.39	0.00	9,168.39	128,608,246	0.00	0.00	102.92
158	190.00	93.54	102.12	0.00	0.00	4,489.97	1,230,000.00	1,241,489.97	128,617,415	200.00	190.00	102.92
159	0.00	181.42	76.19	0.00	0.00	8,708.31	0.00	8,708.31	129,858,905	0.00	190.00	102.92
160	190.00	105.23	139.71	0.00	0.00	5,050.99	1,230,000.00	1,242,050.99	129,867,613	200.00	0.00	102.92
161	0.00	155.52	143.18	0.00	0.00	7,464.82	0.00	7,464.82	131,109,664	0.00	190.00	102.92
162	190.00	12.33	94.81	0.00	0.00	591.98	1,230,000.00	1,237,591.98	131,117,129	200.00	0.00	102.92
163	190.00	107.53	159.62	0.00	0.00	5,161.31	1,230,000.00	1,242,161.31	132,354,721	200.00	190.00	102.92
164	0.00	137.91	138.77	0.00	0.00	6,619.58	0.00	6,619.58	133,596,882	0.00	0.00	102.92
165	190.86	-0.861	133.95	0.00	4,820.4	0.00	1,230,000.00	1,241,820.39	133,603,502	200.00	190.00	102.92
166	190.00	26.05	85.26	0.00	0.00	1,250.27	1,230,000.00	1,238,250.27	134,845,322	200.00	190.00	103.78
167	190.00	130.79	137.22	0.00	0.00	6,277.73	1,230,000.00	1,243,277.73	136,083,572	200.00	0.00	103.78
168	0.00	183.57	137.38	0.00	0.00	8,811.15	0.00	8,811.15	137,326,850	0.00	190.00	103.78
169	190.00	46.19	120.39	0.00	0.00	2,216.89	1,230,000.00	1,239,216.89	137,335,661	200.00	190.00	103.78
170	190.00	115.80	102.76	0.00	0.00	5,558.20	1,230,000.00	1,242,558.20	138,574,878	200.00	190.00	103.78
171	0.00	203.03	104.11	0.00	0.00	9,745.48	0.00	9,745.48	139,817,436	0.00	0.00	103.78
172	190.00	98.92	133.08	0.00	0.00	4,748.19	1,230,000.00	1,241,748.19	139,827,182	200.00	190.00	103.78
173	0.00	155.84	128.08	0.00	0.00	7,480.50	0.00	7,480.50	141,068,930	0.00	190.00	103.78
174	190.00	27.76	102.87	0.00	0.00	1,332.68	1,230,000.00	1,238,332.68	141,076,410	200.00	0.00	103.78
175	190.00	114.89	125.79	0.00	0.00	5,514.89	1,230,000.00	1,242,514.89	142,314,743	200.00	190.00	103.78
176	0.00	179.11	75.73	0.00	0.00	8,597.18	0.00	8,597.18	143,557,258	0.00	0.00	103.78
177	190.00	103.38	140.73	0.00	0.00	4,962.35	1,230,000.00	1,241,962.35	143,565,855	200.00	190.00	103.78
178	0.00	152.65	110.58	0.00	0.00	7,327.21	0.00	7,327.21	144,807,817	0.00	190.00	103.78
179	190.00	42.08	130.89	0.00	0.00	2,019.60	1,230,000.00	1,239,019.60	144,815,145	200.00	0.00	103.78
180	190.00	101.18	127.82	0.00	0.00	4,856.85	1,230,000.00	1,241,856.85	146,054,164	200.00	190.00	103.78
181	0.00	163.36	171.96	0.00	0.00	7,841.46	0.00	7,841.46	147,296,021	0.00	0.00	103.78
182	198.59	-8.59	155.39	0.00	48,124	0.00	1,230,000.00	1,285,124.14	147,303,863	200.00	190.00	103.78
183	190.00	34.61	130.11	0.00	0.00	1,661.05	1,230,000.00	1,238,661.05	148,588,987	200.00	190.00	112.38
184	190.00	94.49	129.40	0.00	0.00	4,535.75	1,230,000.00	1,241,535.75	149,827,648	200.00	0.00	112.38
185	0.00	155.09	165.12	0.00	0.00	7,444.41	0.00	7,444.41	151,069,184	0.00	190.00	112.38
186	200.02	-10.02	90.41	0.00	56,138	0.00	1,230,000.00	1,293,137.79	151,076,628	200.00	190.00	112.38

187	190.00	99.59	94.30	0.00	0.00	4,780.22	1,230,000.00	1,241,780.22	152,369,766	200.00	190.00	122.40
188	0.00	195.29	92.56	0.00	0.00	9,373.88	0.00	9,373.88	153,611,546	0.00	0.00	122.40
189	190.00	102.73	161.13	0.00	0.00	4,931.21	1,230,000.00	1,241,931.21	153,620,920	200.00	190.00	122.40
190	190.00	131.61	160.51	0.00	0.00	6,317.19	1,230,000.00	1,243,317.19	154,862,851	200.00	190.00	122.40
191	0.00	161.09	94.84	0.00	0.00	7,732.49	0.00	7,732.49	156,106,168	0.00	0.00	122.40
192	190.00	66.25	133.54	0.00	0.00	3,179.98	1,230,000.00	1,240,179.98	156,113,901	200.00	190.00	122.40
193	190.00	122.71	125.87	0.00	0.00	5,890.08	1,230,000.00	1,242,890.08	157,354,081	200.00	190.00	122.40
194	0.00	186.84	138.96	0.00	0.00	8,968.22	0.00	8,968.22	158,596,971	0.00	0.00	122.40
195	190.00	47.87	155.23	0.00	0.00	2,297.99	1,230,000.00	1,239,297.99	158,605,939	200.00	190.00	122.40
196	190.00	82.64	126.30	0.00	0.00	3,966.82	1,230,000.00	1,240,966.82	159,845,237	200.00	190.00	122.40
197	0.00	146.34	141.24	0.00	0.00	7,024.22	0.00	7,024.22	161,086,204	0.00	0.00	122.40
198	190.00	5.10	150.54	0.00	0.00	244.79	1,230,000.00	1,237,244.79	161,093,228	200.00	190.00	122.40
199	190.00	44.56	139.42	0.00	0.00	2,138.64	1,230,000.00	1,239,138.64	162,330,473	200.00	190.00	122.40
200	190.00	95.13	108.90	0.00	0.00	4,566.31	1,230,000.00	1,241,566.31	163,569,611	200.00	0.00	122.40
201	0.00	176.23	138.94	0.00	0.00	8,458.97	0.00	8,458.97	164,811,178	0.00	190.00	122.40
202	190.00	37.29	122.96	0.00	0.00	1,789.83	1,230,000.00	1,238,789.83	164,819,637	200.00	190.00	122.40
203	190.00	104.33	95.24	0.00	0.00	5,007.90	1,230,000.00	1,242,007.90	166,058,427	200.00	190.00	122.40
204	0.00	199.10	148.11	0.00	0.00	9,556.61	0.00	9,556.61	167,300,434	0.00	0.00	122.40
205	190.00	50.99	131.74	0.00	0.00	2,447.57	1,230,000.00	1,239,447.57	167,309,991	200.00	190.00	122.40
206	190.00	109.25	140.06	0.00	0.00	5,243.96	1,230,000.00	1,242,243.96	168,549,439	200.00	190.00	122.40
207	0.00	159.18	111.66	0.00	0.00	7,640.86	0.00	7,640.86	169,791,683	0.00	0.00	122.40
208	190.00	47.53	150.61	0.00	0.00	2,281.41	1,230,000.00	1,239,281.41	169,799,323	200.00	190.00	122.40
209	190.00	86.92	140.82	0.00	0.00	4,172.17	1,230,000.00	1,241,172.17	171,038,605	200.00	190.00	122.40
210	0.00	136.10	126.79	0.00	0.00	6,532.84	0.00	6,532.84	172,279,777	0.00	0.00	122.40
211	190.00	9.31	90.46	0.00	0.00	446.73	1,230,000.00	1,237,446.73	172,286,310	200.00	190.00	122.40
212	190.00	108.85	95.66	0.00	0.00	5,224.60	1,230,000.00	1,242,224.60	173,523,757	200.00	190.00	122.40
213	0.00	203.18	163.67	0.00	0.00	9,752.84	0.00	9,752.84	174,765,981	0.00	0.00	122.40
214	190.00	39.52	100.22	0.00	0.00	1,896.79	1,230,000.00	1,238,896.79	174,775,734	200.00	190.00	122.40
215	190.00	129.29	134.69	0.00	0.00	6,206.02	1,230,000.00	1,243,206.02	176,014,631	200.00	190.00	122.40
216	0.00	184.60	118.75	0.00	0.00	8,860.98	0.00	8,860.98	177,257,837	0.00	0.00	122.40
217	190.00	65.85	114.91	0.00	0.00	3,160.83	1,230,000.00	1,240,160.83	177,266,698	200.00	190.00	122.40
218	0.00	140.94	74.97	0.00	0.00	6,765.03	0.00	6,765.03	178,506,859	0.00	190.00	122.40
219	190.00	65.97	111.28	0.00	0.00	3,166.51	1,230,000.00	1,240,166.51	178,513,624	200.00	0.00	122.40
220	0.00	144.69	90.33	0.00	0.00	6,945.13	0.00	6,945.13	179,753,790	0.00	190.00	122.40
221	190.00	54.36	147.86	0.00	0.00	2,609.23	1,230,000.00	1,239,609.23	179,760,735	200.00	0.00	122.40
222	190.00	96.50	82.49	0.00	0.00	4,631.77	1,230,000.00	1,241,631.77	181,000,345	200.00	190.00	122.40
223	0.00	204.01	157.28	0.00	0.00	9,792.29	0.00	9,792.29	182,241,976	0.00	0.00	122.40
224	190.00	46.73	97.52	0.00	0.00	2,243.03	1,230,000.00	1,239,243.03	182,251,769	200.00	190.00	122.40
225	0.00	139.21	70.53	0.00	0.00	6,682.21	0.00	6,682.21	183,491,012	0.00	190.00	122.40

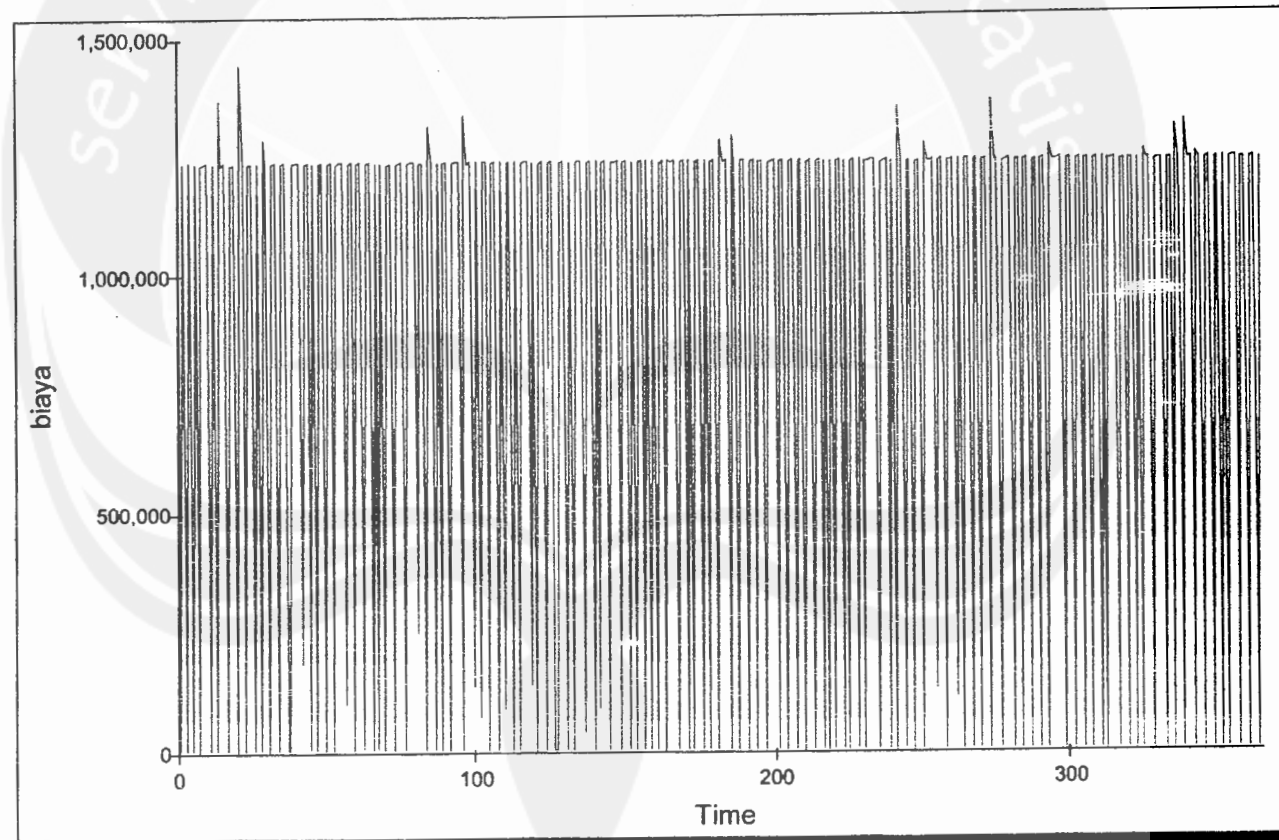
226	190.00	68.68	137.65	0.00	0.00	2,296.74	1,230,000.00	1,240,296.74	183,497,694	200.00	0.00	122.40
227	190.00	121.03	131.72	0.00	0.00	5,809.54	1,230,000.00	1,242,809.54	184,737,991	200.00	190.00	122.40
228	0.00	179.32	72.29	0.00	0.00	8,607.18	0.00	8,607.18	185,980,800	0.00	0.00	122.40
229	190.00	107.03	134.25	0.00	0.00	5,137.20	1,230,000.00	1,242,137.20	185,989,407	200.00	190.00	122.40
230	0.00	162.77	134.83	0.00	0.00	7,813.14	0.00	7,813.14	187,231,545	0.00	190.00	122.40
231	190.00	27.94	137.89	0.00	0.00	1,341.35	1,230,000.00	1,238,341.35	187,239,358	200.00	0.00	122.40
232	190.00	80.05	149.01	0.00	0.00	3,842.57	1,230,000.00	1,240,842.57	188,477,699	200.00	190.00	122.40
233	190.00	121.05	194.18	0.00	0.00	5,810.17	1,230,000.00	1,242,810.17	189,718,542	200.00	0.00	122.40
234	190.00	116.87	164.99	0.00	0.00	5,609.74	1,230,000.00	1,242,609.74	190,961,352	200.00	190.00	122.40
235	0.00	141.88	141.54	0.00	0.00	6,810.18	0.00	6,810.18	192,203,962	0.00	190.00	122.40
236	190.00	0.342	120.62	0.00	0.00	16.44	1,230,000.00	1,237,016.44	192,210,772	200.00	190.00	122.40
237	190.00	69.72	160.58	0.00	0.00	3,346.58	1,230,000.00	1,240,346.58	193,447,788	200.00	190.00	122.40
238	190.00	99.14	128.54	0.00	0.00	4,758.56	1,230,000.00	1,241,758.56	194,688,135	200.00	0.00	122.40
239	0.00	160.60	133.08	0.00	0.00	7,708.87	0.00	7,708.87	195,929,893	0.00	190.00	122.40
240	190.00	27.52	81.90	0.00	0.00	1,320.83	1,230,000.00	1,238,320.83	195,937,602	200.00	190.00	122.40
241	0.00	135.62	156.50	0.00	0.00	6,509.57	0.00	6,509.57	197,175,923	0.00	190.00	122.40
242	210.88	-20.88	94.84	0.00	116,927	0.00	1,230,000.00	1,353,926.91	197,182,433	200.00	0.00	122.40
243	190.00	95.16	141.36	0.00	0.00	4,567.54	1,230,000.00	1,241,567.54	198,536,359	200.00	190.00	143.28
244	0.00	143.80	123.74	0.00	0.00	6,902.36	0.00	6,902.36	199,777,927	0.00	0.00	143.28
245	190.00	20.05	130.47	0.00	0.00	962.61	1,230,000.00	1,237,962.61	199,784,829	200.00	190.00	143.28
246	190.00	79.58	134.18	0.00	0.00	3,819.82	1,230,000.00	1,240,819.82	201,022,792	200.00	190.00	143.28
247	0.00	135.40	121.47	0.00	0.00	6,498.97	0.00	6,498.97	202,263,612	0.00	0.00	143.28
248	190.00	13.92	129.58	0.00	0.00	668.18	1,230,000.00	1,237,668.18	202,270,111	200.00	190.00	143.28
249	190.00	74.34	120.04	0.00	0.00	3,568.31	1,230,000.00	1,240,568.31	203,507,779	200.00	190.00	143.28
250	0.00	144.30	151.41	0.00	0.00	6,926.44	0.00	6,926.44	204,748,347	0.00	0.00	143.28
251	197.11	-7.11	170.90	0.00	39,823	0.00	1,230,000.00	1,276,822.70	204,755,274	200.00	190.00	143.28
252	190.00	19.10	151.57	0.00	0.00	916.66	1,230,000.00	1,237,916.66	206,032,096	200.00	190.00	150.39
253	190.00	57.52	142.19	0.00	0.00	2,761.17	1,230,000.00	1,239,761.17	207,270,013	200.00	0.00	150.39
254	190.00	105.34	84.38	0.00	0.00	5,056.11	1,230,000.00	1,242,056.11	208,509,774	200.00	190.00	150.39
255	0.00	210.95	145.35	1.26e5	0.00	10,125.75	0.00	135,844.85	209,751,830	0.00	190.00	150.39
256	190.00	65.60	123.20	0.00	0.00	3,148.95	1,230,000.00	1,240,148.95	209,887,675	200.00	190.00	150.39
257	190.00	132.41	169.58	0.00	0.00	6,355.48	1,230,000.00	1,243,355.48	211,127,824	200.00	190.00	150.39
258	0.00	152.83	105.45	0.00	0.00	7,335.62	0.00	7,335.62	212,371,180	0.00	0.00	150.39
259	190.00	47.38	174.50	0.00	0.00	2,274.07	1,230,000.00	1,239,274.07	212,378,515	200.00	190.00	150.39
260	190.00	62.88	118.61	0.00	0.00	3,018.30	1,230,000.00	1,240,018.30	213,617,789	200.00	190.00	150.39
261	190.00	134.27	116.41	0.00	0.00	6,445.12	1,230,000.00	1,243,445.12	214,857,808	200.00	0.00	150.39
262	0.00	207.87	107.90	1.07e5	0.00	9,977.52	0.00	117,167.56	216,101,253	0.00	190.00	150.39
263	190.00	99.96	120.75	0.00	0.00	4,798.12	1,230,000.00	1,241,798.12	216,218,420	200.00	190.00	150.39
264	0.00	169.21	76.98	0.00	0.00	8,122.18	0.00	8,122.18	217,460,218	0.00	190.00	150.39

265	190.00	92.23	166.40	0.00	0.00	4,427.00	1,230,000.00	1,241,427.00	217,468,341	200.00	0.00	150.39
266	190.00	115.83	142.91	0.00	0.00	5,559.64	1,230,000.00	1,242,559.64	218,709,768	200.00	190.00	150.39
267	0.00	162.92	120.04	0.00	0.00	7,820.06	0.00	7,820.06	219,952,327	0.00	0.00	150.39
268	190.00	42.88	106.84	0.00	0.00	2,058.33	1,230,000.00	1,239,058.33	219,960,147	200.00	190.00	150.39
269	190.00	126.05	126.14	0.00	0.00	6,050.23	1,230,000.00	1,243,050.23	221,199,206	200.00	190.00	150.39
270	0.00	189.90	122.46	0.00	0.00	9,115.34	0.00	9,115.34	222,442,256	0.00	0.00	150.39
271	190.00	67.44	132.05	0.00	0.00	3,237.29	1,230,000.00	1,240,237.29	222,451,371	200.00	190.00	150.39
272	190.00	125.39	152.50	0.00	0.00	6,018.72	1,230,000.00	1,243,018.72	223,691,608	200.00	190.00	150.39
273	0.00	162.89	185.83	0.00	0.00	7,818.64	0.00	7,818.64	224,934,627	0.00	0.00	150.39
274	212.94	-22.94	149.34	0.00	128,475	0.00	1,230,000.00	1,365,474.95	224,942,446	200.00	190.00	150.39
275	190.00	40.66	96.83	0.00	0.00	1,951.57	1,230,000.00	1,238,951.57	226,307,921	200.00	190.00	173.34
276	190.00	133.83	141.18	0.00	0.00	6,423.96	1,230,000.00	1,243,423.96	227,546,872	200.00	0.00	173.34
277	0.00	182.65	170.53	0.00	0.00	8,767.40	0.00	8,767.40	228,790,296	0.00	190.00	173.34
278	190.00	12.12	125.97	0.00	0.00	581.96	1,230,000.00	1,237,581.96	228,799,064	200.00	190.00	173.34
279	190.00	76.15	168.47	0.00	0.00	3,655.23	1,230,000.00	1,240,655.23	230,036,646	200.00	190.00	173.34
280	190.00	97.68	119.34	0.00	0.00	4,688.87	1,230,000.00	1,241,688.87	231,277,301	200.00	0.00	173.34
281	0.00	168.35	130.11	0.00	0.00	8,080.62	0.00	8,080.62	232,518,990	0.00	190.00	173.34
282	190.00	38.24	147.18	0.00	0.00	1,835.55	1,230,000.00	1,238,835.55	232,527,070	200.00	190.00	173.34
283	190.00	81.06	118.04	0.00	0.00	3,890.94	1,230,000.00	1,240,890.94	233,765,906	200.00	190.00	173.34
284	0.00	153.03	114.76	0.00	0.00	7,345.22	0.00	7,345.22	235,006,797	0.00	0.00	173.34
285	190.00	38.27	102.69	0.00	0.00	1,836.87	1,230,000.00	1,238,836.87	235,014,142	200.00	190.00	173.34
286	190.00	125.57	167.63	0.00	0.00	6,027.53	1,230,000.00	1,243,027.53	236,252,979	200.00	190.00	173.34
287	0.00	147.94	132.21	0.00	0.00	7,101.26	0.00	7,101.26	237,496,006	0.00	0.00	173.34
288	190.00	15.73	119.73	0.00	0.00	755.21	1,230,000.00	1,237,755.21	237,503,108	200.00	190.00	173.34
289	190.00	86.00	103.32	0.00	0.00	4,127.95	1,230,000.00	1,241,127.95	238,740,863	200.00	190.00	173.34
290	0.00	172.68	119.11	0.00	0.00	8,288.53	0.00	8,288.53	239,981,991	0.00	0.00	173.34
291	190.00	53.57	111.32	0.00	0.00	2,571.39	1,230,000.00	1,239,571.39	239,990,279	200.00	190.00	173.34
292	190.00	132.25	147.77	0.00	0.00	6,347.93	1,230,000.00	1,243,347.93	241,229,851	200.00	190.00	173.34
293	0.00	174.47	180.06	0.00	0.00	8,374.74	0.00	8,374.74	242,473,199	0.00	0.00	173.34
294	195.59	-5.59	148.21	0.00	31,295	0.00	1,230,000.00	1,268,295.10	242,481,573	200.00	190.00	173.34
295	190.00	41.79	153.30	0.00	0.00	2,005.75	1,230,000.00	1,239,005.75	243,749,869	200.00	190.00	178.92
296	190.00	78.49	153.30	0.00	0.00	3,767.47	1,230,000.00	1,240,767.47	244,988,874	200.00	0.00	178.92
297	190.00	115.19	180.89	0.00	0.00	5,529.24	1,230,000.00	1,242,529.24	246,229,642	200.00	190.00	178.92
298	190.00	124.30	153.76	0.00	0.00	5,966.55	1,230,000.00	1,242,966.55	247,472,171	200.00	190.00	178.92
299	0.00	160.54	130.58	0.00	0.00	7,706.04	0.00	7,706.04	248,715,138	0.00	190.00	178.92
300	190.00	29.96	101.50	0.00	0.00	1,438.31	1,230,000.00	1,238,438.31	248,722,844	200.00	190.00	178.92
301	190.00	118.47	127.62	0.00	0.00	5,686.33	1,230,000.00	1,242,686.33	249,961,282	200.00	190.00	178.92
302	0.00	180.84	158.58	0.00	0.00	8,680.36	0.00	8,680.36	251,203,968	0.00	0.00	178.92
303	190.00	22.26	106.82	0.00	0.00	1,068.63	1,230,000.00	1,238,068.63	251,212,649	200.00	190.00	178.92

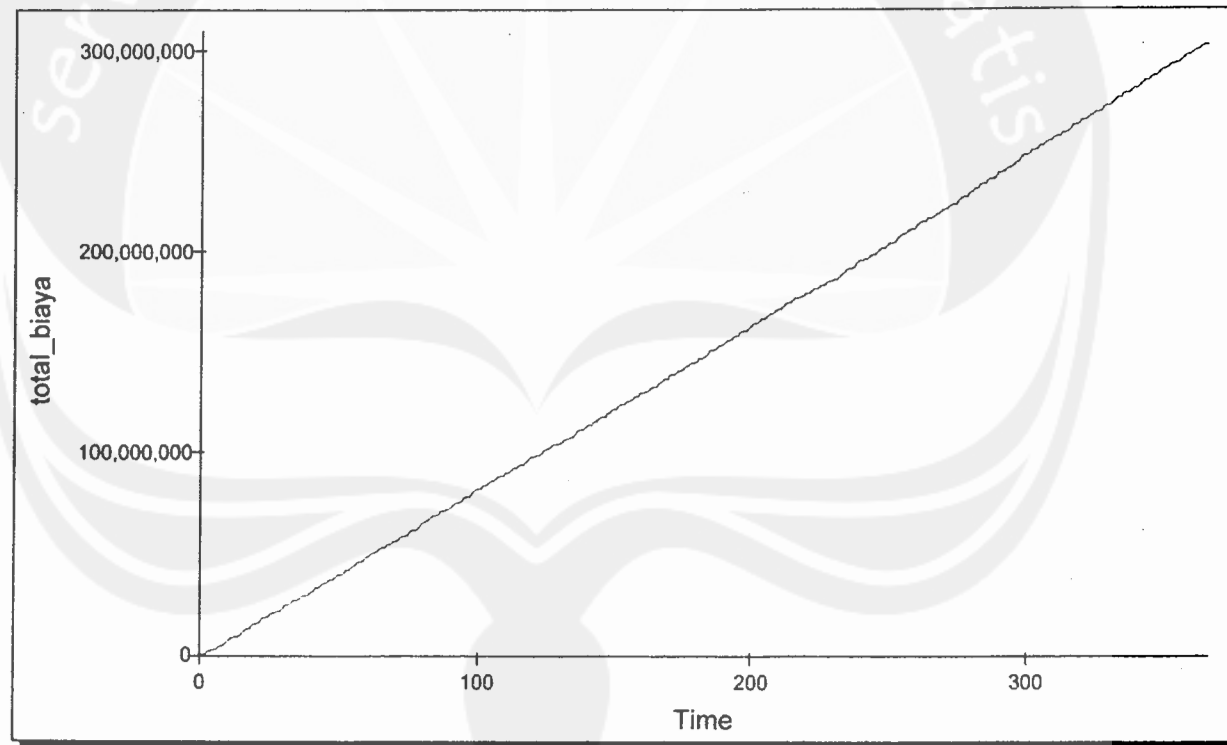
304	190.00	105.44	95.37	0.00	0.00	5,061.08	1,230,000.00	1,242,061.08	252,450,717	200.00	190.00	178.92
305	0.00	200.07	123.72	0.00	0.00	9,603.35	0.00	9,603.35	253,692,778	0.00	0.00	178.92
306	190.00	76.35	134.66	0.00	0.00	3,664.57	1,230,000.00	1,240,664.57	253,702,382	200.00	190.00	178.92
307	190.00	131.68	142.91	0.00	0.00	6,320.68	1,230,000.00	1,243,320.68	254,943,046	200.00	190.00	178.92
308	0.00	178.77	113.98	0.00	0.00	8,581.04	0.00	8,581.04	255,186,367	0.00	0.00	178.92
309	190.00	64.80	134.59	0.00	0.00	3,110.17	1,230,000.00	1,240,110.17	255,194,948	200.00	190.00	178.92
310	190.00	120.20	120.46	0.00	0.00	5,769.65	1,230,000.00	1,242,769.65	257,435,058	200.00	190.00	178.92
311	0.00	189.74	91.56	0.00	0.00	9,107.72	0.00	9,107.72	258,677,828	0.00	0.00	178.92
312	190.00	98.18	129.87	0.00	0.00	4,712.64	1,230,000.00	1,241,712.64	258,686,936	200.00	190.00	178.92
313	0.00	158.31	126.45	0.00	0.00	7,598.97	0.00	7,598.97	259,928,648	0.00	190.00	178.92
314	190.00	31.86	151.07	0.00	0.00	1,529.14	1,230,000.00	1,238,529.14	259,936,247	200.00	0.00	178.92
315	190.00	70.78	167.31	0.00	0.00	3,397.54	1,230,000.00	1,240,397.54	261,174,776	200.00	190.00	178.92
316	190.00	93.47	126.74	0.00	0.00	4,486.51	1,230,000.00	1,241,486.51	262,415,174	200.00	0.00	178.92
317	0.00	156.73	145.33	0.00	0.00	7,523.08	0.00	7,523.08	263,656,660	0.00	190.00	178.92
318	190.00	11.40	137.10	0.00	0.00	547.37	1,230,000.00	1,237,547.37	263,664,183	200.00	190.00	178.92
319	190.00	64.31	80.13	0.00	0.00	3,086.68	1,230,000.00	1,240,086.68	264,901,731	200.00	190.00	178.92
320	0.00	174.17	99.33	0.00	0.00	8,360.28	0.00	8,360.28	266,141,817	0.00	0.00	178.92
321	190.00	74.85	182.69	0.00	0.00	3,592.56	1,230,000.00	1,240,592.56	266,150,178	200.00	190.00	178.92
322	190.00	82.15	111.23	0.00	0.00	3,943.37	1,230,000.00	1,240,943.37	267,390,770	200.00	190.00	178.92
323	0.00	160.93	107.52	0.00	0.00	7,724.49	0.00	7,724.49	268,631,714	0.00	0.00	178.92
324	190.00	53.41	97.09	0.00	0.00	2,563.70	1,230,000.00	1,239,563.70	268,639,438	200.00	190.00	178.92
325	0.00	146.32	150.34	0.00	0.00	7,023.43	0.00	7,023.43	269,879,002	0.00	190.00	178.92
326	194.02	-4.02	164.47	0.00	22,487	0.00	1,230,000.00	1,259,486.67	269,886,025	200.00	0.00	178.92
327	190.00	25.53	117.89	0.00	0.00	1,225.51	1,230,000.00	1,238,225.51	271,145,512	200.00	190.00	182.94
328	190.00	97.64	133.91	0.00	0.00	4,686.74	1,230,000.00	1,241,686.74	272,383,737	200.00	0.00	182.94
329	0.00	153.73	150.67	0.00	0.00	7,379.19	0.00	7,379.19	273,625,424	0.00	190.00	182.94
330	190.00	3.07	157.91	0.00	0.00	147.27	1,230,000.00	1,237,147.27	273,632,803	200.00	190.00	182.94
331	190.00	35.15	140.87	0.00	0.00	1,687.40	1,230,000.00	1,238,687.40	274,869,951	200.00	190.00	182.94
332	190.00	84.28	112.18	0.00	0.00	4,045.55	1,230,000.00	1,241,045.55	276,108,638	200.00	0.00	182.94
333	0.00	162.10	115.89	0.00	0.00	7,780.93	0.00	7,780.93	277,349,684	0.00	190.00	182.94
334	190.00	46.21	178.22	0.00	0.00	2,218.00	1,230,000.00	1,239,218.00	277,357,465	200.00	190.00	182.94
335	190.00	57.99	106.01	0.00	0.00	2,783.66	1,230,000.00	1,239,783.66	278,596,683	200.00	190.00	182.94
336	0.00	141.99	155.02	0.00	0.00	6,815.30	0.00	6,815.30	279,836,466	0.00	0.00	182.94
337	203.03	-13.03	148.87	0.00	72,974	0.00	1,230,000.00	1,309,974.42	279,843,281	200.00	190.00	182.94
338	190.00	41.13	85.09	0.00	0.00	1,974.21	1,230,000.00	1,238,974.21	281,153,256	200.00	190.00	195.97
339	0.00	146.04	160.41	0.00	0.00	7,009.68	0.00	7,009.68	282,392,230	0.00	0.00	195.97
340	204.38	-14.38	113.89	0.00	80,516	0.00	1,230,000.00	1,317,516.03	282,399,240	200.00	190.00	195.97
341	190.00	76.11	157.36	0.00	0.00	3,653.10	1,230,000.00	1,240,653.10	283,716,756	200.00	190.00	210.35
342	190.00	108.75	121.67	0.00	0.00	5,219.92	1,230,000.00	1,242,219.92	284,957,409	200.00	0.00	210.35

343	0.00	177.08	179.94	0.00	0.00	8,499.69	0.00	8,499.69	286,199,629	0.00	190.00	210.35
344	192.86	-2.86	80.19	0.00	16,034	0.00	1,230,000.00	1,253,033.58	286,208,129	200.00	190.00	210.35
345	190.00	109.81	157.45	0.00	0.00	5,271.04	1,230,000.00	1,242,271.04	287,461,162	200.00	190.00	213.21
346	0.00	142.36	115.75	0.00	0.00	6,833.35	0.00	6,833.35	288,703,433	0.00	0.00	213.21
347	190.00	26.61	124.38	0.00	0.00	1,277.42	1,230,000.00	1,238,277.42	288,710,267	200.00	190.00	213.21
348	190.00	92.23	109.72	0.00	0.00	4,427.11	1,230,000.00	1,241,427.11	289,948,544	200.00	190.00	213.21
349	0.00	172.51	144.85	0.00	0.00	8,280.51	0.00	8,280.51	291,189,971	0.00	0.00	213.21
350	190.00	27.66	115.14	0.00	0.00	1,327.86	1,230,000.00	1,238,327.86	291,198,252	200.00	190.00	213.21
351	190.00	102.52	100.90	0.00	0.00	4,920.93	1,230,000.00	1,241,920.93	292,436,579	200.00	190.00	213.21
352	0.00	191.62	100.68	0.00	0.00	9,197.94	0.00	9,197.94	293,678,500	0.00	0.00	213.21
353	190.00	90.95	112.28	0.00	0.00	4,365.47	1,230,000.00	1,241,365.47	293,687,698	200.00	190.00	213.21
354	0.00	168.67	111.95	0.00	0.00	8,096.25	0.00	8,096.25	294,929,064	0.00	190.00	213.21
355	190.00	56.72	157.52	0.00	0.00	2,722.59	1,230,000.00	1,239,722.59	294,937,160	200.00	0.00	213.21
356	190.00	89.20	160.69	0.00	0.00	4,281.44	1,230,000.00	1,241,281.44	296,176,883	200.00	190.00	213.21
357	190.00	118.51	149.54	0.00	0.00	5,688.48	1,230,000.00	1,242,688.48	297,418,164	200.00	0.00	213.21
358	0.00	158.97	133.63	0.00	0.00	7,630.43	0.00	7,630.43	298,660,853	0.00	190.00	213.21
359	190.00	25.34	141.66	0.00	0.00	1,216.39	1,230,000.00	1,238,216.39	298,668,483	200.00	190.00	213.21
360	190.00	73.68	106.92	0.00	0.00	3,536.77	1,230,000.00	1,240,536.77	299,906,699	200.00	190.00	213.21
361	0.00	156.76	127.03	0.00	0.00	7,524.65	0.00	7,524.65	301,147,236	0.00	0.00	213.21
362	190.00	29.74	110.01	0.00	0.00	1,427.31	1,230,000.00	1,238,427.31	301,154,761	200.00	190.00	213.21
363	190.00	109.72	144.13	0.00	0.00	5,266.67	1,230,000.00	1,242,266.67	302,393,188	200.00	190.00	213.21
364	0.00	155.59	116.72	0.00	0.00	7,468.44	0.00	7,468.44	303,635,455	0.00	0.00	213.21
365	190.00	38.87	131.30	0.00	0.00	1,865.85	1,230,000.00	1,238,865.85	303,642,923	200.00	190.00	213.21

GRAFIK BIAYA UDANG SKENARIO 3, TINGKAT REORDER POINT <135



GRAFIK TOTAL BIAYA UDANG SKENARIO 3, TINGKAT REORDER POINT <135 KG





Critical points $t_{\nu, \gamma}$ for the t distribution with ν df, and z_{γ} for the standard normal distribution

$\gamma = P(T_{\nu} \leq t_{\nu, \gamma})$, where T_{ν} is a random variable having the t distribution with ν df; the last row, where $\nu = \infty$, gives the normal critical points satisfying $\gamma = P(Z \leq z_{\gamma})$, where Z is a standard normal random variable

ν	0.6000	0.7000	0.8000	0.9000	0.9333	0.9500	0.9600	0.9667	0.9750	0.9800	0.9833	0.9875	0.9900	0.9917	0.9938	0.9950
1	0.325	0.727	1.376	3.078	4.702	6.314	7.916	9.524	12.706	15.895	19.043	25.452	31.821	38.342	51.334	63.657
2	0.289	0.617	1.061	1.886	2.456	2.920	3.320	3.679	4.303	4.849	5.334	6.205	6.965	7.665	8.897	9.925
3	0.277	0.584	0.978	1.638	2.045	2.353	2.605	2.823	3.182	3.482	3.738	4.177	4.541	4.864	5.408	5.841
4	0.271	0.569	0.941	1.533	1.879	2.132	2.333	2.502	2.776	2.999	3.184	3.495	3.747	3.966	4.325	4.604
5	0.267	0.559	0.920	1.476	1.790	2.015	2.191	2.337	2.571	2.757	2.910	3.163	3.365	3.538	3.818	4.032
6	0.265	0.553	0.906	1.440	1.735	1.943	2.104	2.237	2.447	2.612	2.748	2.969	3.143	3.291	3.528	3.707
7	0.263	0.549	0.896	1.415	1.698	1.895	2.046	2.170	2.365	2.517	2.640	2.841	2.998	3.130	3.341	3.499
8	0.262	0.546	0.889	1.397	1.670	1.860	2.004	2.122	2.306	2.449	2.565	2.752	2.896	3.018	3.211	3.355
9	0.261	0.543	0.883	1.383	1.650	1.833	1.973	2.086	2.262	2.398	2.508	2.685	2.821	2.936	3.116	3.250
10	0.260	0.542	0.879	1.372	1.634	1.812	1.948	2.058	2.228	2.359	2.465	2.634	2.764	2.872	3.043	3.169
11	0.260	0.540	0.876	1.363	1.621	1.796	1.928	2.036	2.201	2.328	2.430	2.593	2.718	2.822	2.985	3.106
12	0.259	0.539	0.873	1.356	1.610	1.782	1.912	2.017	2.179	2.303	2.402	2.560	2.681	2.782	2.939	3.055
13	0.259	0.538	0.870	1.350	1.601	1.771	1.899	2.002	2.160	2.282	2.379	2.533	2.650	2.748	2.900	3.012
14	0.258	0.537	0.868	1.345	1.593	1.761	1.887	1.989	2.145	2.264	2.359	2.510	2.624	2.720	2.868	2.977
15	0.258	0.536	0.866	1.341	1.587	1.753	1.878	1.978	2.131	2.249	2.342	2.490	2.602	2.696	2.841	2.947
16	0.258	0.535	0.865	1.337	1.581	1.746	1.869	1.968	2.120	2.235	2.327	2.473	2.583	2.675	2.817	2.921
17	0.257	0.534	0.863	1.333	1.576	1.740	1.862	1.960	2.110	2.224	2.315	2.458	2.567	2.657	2.796	2.898
18	0.257	0.534	0.862	1.330	1.572	1.734	1.855	1.953	2.101	2.214	2.303	2.445	2.552	2.641	2.778	2.878
19	0.257	0.533	0.861	1.328	1.568	1.729	1.850	1.946	2.093	2.205	2.293	2.433	2.539	2.627	2.762	2.861
20	0.257	0.533	0.860	1.325	1.564	1.725	1.844	1.940	2.086	2.197	2.285	2.423	2.528	2.614	2.748	2.845
21	0.257	0.532	0.859	1.323	1.561	1.721	1.840	1.935	2.080	2.189	2.277	2.414	2.518	2.603	2.735	2.831
22	0.256	0.532	0.858	1.321	1.558	1.717	1.835	1.930	2.074	2.183	2.269	2.405	2.508	2.593	2.724	2.819
23	0.256	0.532	0.858	1.319	1.556	1.714	1.832	1.926	2.069	2.177	2.263	2.398	2.500	2.584	2.713	2.807
24	0.256	0.531	0.857	1.318	1.553	1.711	1.828	1.922	2.064	2.172	2.257	2.391	2.492	2.575	2.704	2.797
25	0.256	0.531	0.856	1.316	1.551	1.708	1.825	1.918	2.060	2.167	2.251	2.385	2.485	2.568	2.695	2.787
26	0.256	0.531	0.856	1.315	1.549	1.706	1.822	1.915	2.056	2.162	2.246	2.379	2.479	2.561	2.687	2.779
27	0.256	0.531	0.855	1.314	1.547	1.703	1.819	1.912	2.052	2.158	2.242	2.373	2.473	2.554	2.680	2.771
28	0.256	0.530	0.855	1.313	1.546	1.701	1.817	1.909	2.048	2.154	2.237	2.368	2.467	2.548	2.673	2.763
29	0.256	0.530	0.854	1.311	1.544	1.699	1.814	1.906	2.045	2.150	2.233	2.364	2.462	2.543	2.667	2.756
30	0.256	0.530	0.854	1.310	1.543	1.697	1.812	1.904	2.042	2.147	2.230	2.360	2.457	2.537	2.661	2.750
40	0.255	0.529	0.851	1.303	1.532	1.684	1.796	1.886	2.021	2.123	2.203	2.329	2.423	2.501	2.619	2.704
50	0.255	0.528	0.849	1.299	1.526	1.676	1.787	1.875	2.009	2.109	2.188	2.311	2.403	2.479	2.594	2.678
75	0.254	0.527	0.846	1.293	1.517	1.665	1.775	1.861	1.992	2.090	2.167	2.287	2.377	2.450	2.562	2.643
100	0.254	0.526	0.845	1.290	1.513	1.660	1.769	1.855	1.984	2.081	2.157	2.276	2.364	2.436	2.547	2.626
∞	0.253	0.524	0.842	1.282	1.501	1.645	1.751	1.834	1.960	2.054	2.127	2.241	2.326	2.395	2.501	2.576



SURAT KETERANGAN

Dengan ini, UD MAJU JAYA menerangkan bahwa mahasiswa berikut ini :

Nama : Nicolas Susprima Adianto
No Mhs : 03278 / TI
Program Studi : Teknik Industri
Fakultas : Teknologi Industri
Universitas : Atma Jaya Yogyakarta

Telah melakukan penelitian di UD MAJU JAYA guna keperluan Tugas Akhir.

Demikian surat keterangan ini kami buat untuk dapat dipergunakan sebagaimana mestinya.

Cilacap, 31 Mei 2006

UD MAJU JAYA



Direksi
UD. MAJU JAYA
CILACAP

(Pak Ony)





**Foto 1. Gudang Penyimpanan
Bahan Baku Udang dan Ikan**



**Foto 2. Box Penyimpan Bahan
Baku Berkapasitas 300 kg Ikan
atau 250 kg Udang**

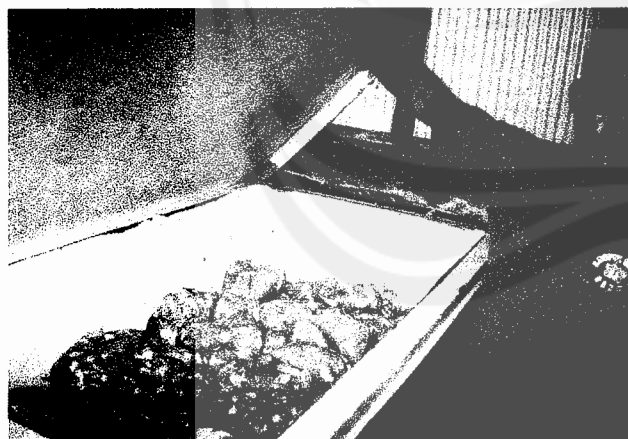
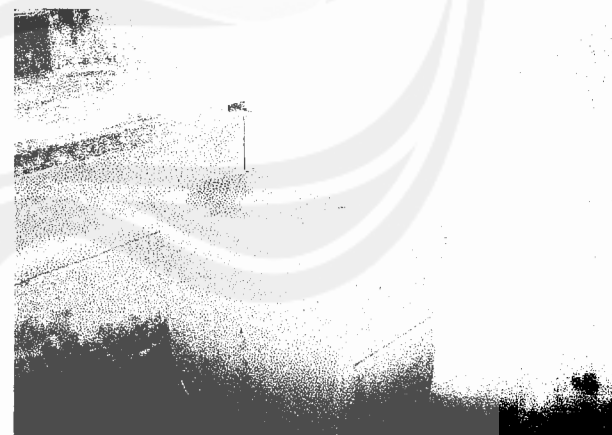


Foto 3. Bahan Baku Ikan



**Foto 4. Box Penyimpan Bahan
Baku Berkapasitas 200 kg Ikan
atau 167 kg Udang**



Foto 5. Hasil dari Proses Pengkukusan



Foto 6. Penjemuran Kerupuk dengan Sinar Matahari



Foto 7. Penjemuran Kerupuk dengan Oven



Foto 8. Tungku Pemanas