

## DAFTAR PUSTAKA

- AFGANI, L. M. J. AI. (2021). Accuracy of Zero Inflated Generalized Poisson Exponentially Moving Average Control Chart. *Jurnal Matematika, Statistika dan Komputasi*, 18(1), 121–129. <https://doi.org/10.20956/j.v18i1.14035>
- E.W, R. M. . A., Syarief, A., & Tumanggor, A. H. U. (2021). Analisis Kecacatan Produk Block Cylinder Dengan Menggunakan Peta Kendali. *Journal of Industrial Engineering and Operation Management*, 4(2), 1–5. <https://doi.org/10.31602/jjeom.v4i2.5937>
- Elmas, M. (2017). Pengendalian kualitas dengan menggunakan metode SQC. *Jurnal Penelitian Ilmu Ekonomi*, 7, 15–22. Diambil dari file:///C:/Users/steve/Downloads/330-Article Text-474-2-10-20190503.pdf
- Hasari, G. (2021). *Analisa Pengendalian Kualitas Crude Palm Oil (Cpo) Menggunakan Alat Bantu Statistical Quality Control (Sqc)*.
- Nasruddin, N. (2023). Peta Kendali Demerit Untuk Data Nurmasiyta Nasruddin.
- Nurkomara, E., Rahmana, A., & Puspani, N. S. (2016). Analisis Pengendalian Kualitas Kejernihan Gula di PT. Tersana Baru dengan menggunakan Peta Kendali Exponentially Weighted Moving Average (EWMA). *Seminar Nasional IENACO*, (2337–4349), 361–365.
- Parung, J., L., S., S., Amelia., Prayogo, & N, D. (2021). Penggunaan teknologi Blockchain Internet of Thingd dan Artificial Intelligence untuk mendukung kota cerdas. *Journal Teknik Informatika*, 1131.
- Putri R, N. E., & Aksioma, D. F. (2018). Pengendalian Kualitas Kantong Semen di PT. Industri Kemasan Semen Gresik Menggunakan Peta Kendali Demerit dan Fuzzy DemeritKurniawan, H. dan R. (2011). Penentuan Biaya Kualitas dalam Proses Produksi Kantong Jenis Pasted. *Teknik Industri*, 8, 68–79. *Jurnal Sains dan Seni ITS*, 7(2).
- Putri R, N. E., & Aksioma, D. F. (2019). Pengendalian Kualitas Kantong Semen di PT. Industri Kemasan Semen Gresik Menggunakan Peta Kendali Demerit dan Fuzzy Demerit. *Jurnal Sains dan Seni ITS*, 7(2). <https://doi.org/10.12962/j23373520.v7i2.33275>
- Ramadhani, F., & Nurdibyanandaru, D. (2014). Pengaruh Self-Compassion terhadap

Kompetensi Emosi Remaja Akhir. *Jurnal Psikologi Klinis dan Kesehatan Mental*, 3(03), 120–126.

Rifqi, O., & Noviana, J. (2019). Pengendalian Proses Dengan Menggunakan Peta Kendali Alternatif Improved Square Root Transformation P Exponentially Weighted Moving Average (Isrt P Ewma) Di Pt. Primarindo Asia Infrastruktur Tbk (Studi Kasus : Pt Primarindo Asia Infrastruktur Tbk).

Septilasse, Rebeka Norcaline. Goejantoro, Rito. Wahyuningsih, S. (2020). Perbandingan Diagram Kontrol Dem erit danFuzzy u(Studi Kasus : Kecacatan Produk Kayu Lapis (Plywood)di PT. Segara Timber Mangk ujenang, SamarindaProvinsi Kalimantan Timur Tahun 2019). *Jurnal EKSPONENSIAL*, 11(2), 1–23.

Setyorini, E. Y., & Surjanto, S. D. (2023). Perbandingan Kinerja Peta Kendali CUSUM di PT Serbaguna Prima. *Jurnal Sains dan Seni ITS*, 12(1), 2337–3520.

Susanti, D., Sukono, S., & Verrany, M. J. (2020). Value-at-Risk Estimation Method Based on Normal Distribution, Logistics Distribution and Historical Simulation. *Operations Research: International Conference Series*, 1(1), 13–18. <https://doi.org/10.47194/orics.v1i1.19>

Usmaliadanti, C. (2011). *Analisis Pengaruh Tingkat Kemiskinan, Pengeluaran Pemerintah Sektor Pendidikan Dan Kesehatan terhadap Indeks Pembangunan Manusia Di Provinsi Jawa Tengah Tahun 2007-2009*. *Journal of Economics Undip Repository* (Vol. 2).

Viana, D. W. I. A. (2019). PERBANDINGAN APLIKASI PETA KENDALI DEMERIT DAN PETA KENDALI FUZZY DEMERIT UNTUK PROGRAM STUDI MATEMATIKA.

Wu, W. T., Yang, Y. M., & Maa, J. R. (1995). Enhancement of nucleate boiling heat transfer and depression of surface tension by surfactant additives. *Journal of Heat Transfer*, 117(2), 526–529. <https://doi.org/10.1115/1.2822558>

Yunita, A. M., Wardah, N. N., Sugiarto, A., Susanti, E., Sujai, L., & Rizky, R. (2020). Water level measurements at the cikupa pandeglang bantendam using fuzzy sugenowith microcontroler-based ultrasonik sensor. *Journal of Physics: Conference Series*, 1477(5). <https://doi.org/10.1088/1742-6596/1477/5/052048>

# LAMPIRAN

**Lampiran I. Data Banyaknya Kecacatan untuk Masing-Masing Kelas**

<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$\bar{U}$	$n_i$	$UCL$	$CL$	$LCL$
1	0	0	0	0	0	0	0,01 8696 29	378 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
2	0	0	12 0	0	1200	0,38 0952 38	0,00 7382 44	315 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
3	12 0	0	0	0	12000	3,12 5	0,00 9253 34	384 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
4	60	0	0	0	6000	1,69 4915 25	0,00 1213 55	354 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
5	0	0	0	0	0	0		312 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
6	0	0	12 0	0	1200	0,27 9720 28		429 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
7	0	0	0	0	0	0		336 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21

8	0	0	0	0	0	0	0	369 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
9	24 0	0	0	0	24000	5,97 0149 25	402 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
10	12 0	0	0	0	12000	3,53 9823 01	339 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
11	24 0	1 2 0	0	0	30000	6,66 6666 67	450 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
12	18 0	0	0	0	18000	5,21 7391 3	345 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
13	60	0	0	0	6000	1,68 0672 27	357 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
14	0	0	0	12 0	120	0,06 3492 06	189 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
15	0	0	0	0	0	0	168 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	
16	0	0	0	0	0	0	147 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21	

17	0	0	0	0	0	0	207 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
18	0	0	12 0	0	1200	0,65 5737 7	183 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
19	12 0	0	0	0	12000	6,45 1612 9	186 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
20	18 0	0	0	0	18000	14,2 8571 43	126 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
21	0	0	0	0	0	0	141 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
22	18 0	0	0	0	18000	7,5	240 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
23	0	0	0	0	0	0	222 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
24	36 0	0	90	0	36900	15,5 6962 03	237 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21
25	36 0	0	0	0	36000	18,1 8181 82	198 0	4,88 9668 48	2,33 2498 17	- 1,70 4780 21

Su bgr up	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	$UCL$	$CL$	$LCL$
26	0	0	0	0	0	0	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
27	60	0	0	0	6000	2,56 4102 56	234 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
28	12 0	0	0	0	12000	3,2	375 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
29	0	0	0	0	0	0	234 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
30	0	0	0	0	0	0	222 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
31	0	0	0	0	0	0	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
32	0	0	0	0	0	0	303 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
33	0	0	0	0	0	0	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
34	0	0	0	0	0	0	249 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
35	0	1 2 0	0	0	6000	1,85 1851 85	324 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

36	0	0	0	0	0	0	375 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
37	12 0	0	0	0	12000	2,79 7202 8	429 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
38	12 0	0	0	0	12000	2,85 7142 86	420 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
39	30	0	0	0	3000	0,64 5161 29	465 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
40	0	0	0	0	0	0	420 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
41	0	0	0	0	0	0	414 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
42	0	0	0	0	0	0	366 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
43	12 0	0	0	0	12000	2,83 6879 43	423 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
44	60	6 0	0	0	9000	2,43 9024 39	369 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
45	60	0	0	0	6000	1,63 9344 26	366 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
46	30 0	0	0	0	30000	8,25 7638 32	363 3	4,88 9668 48	2,33 2498 17	- 1,704780 21



47	24 0	0	0	0	24000	5,88 2352 94	408 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
48	48 0	0	0	0	48000	11,7 6470 59	408 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
49	0	0	0	0	0	0	375 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
50	12 0	0	0	0	12000	2,91 9708 03	411 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
51	12 0	0	0	0	12000	4,30 1075 27	279 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
52	60	0	0	0	6000	2,22 2222 22	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
53	90	0	0	0	9000	4,54 5454 55	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
54	60	1 2 0	12 0	0	13200	4,63 1578 95	285 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
55	0	0	0	0	0	0	309 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
56	0	0	0	0	0	0	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

57	0	0	0	0	0	0	276 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
58	0	0	0	0	0	0	282 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
59	0	0	0	0	0	0	195 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
60	0	0	0	0	0	0	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
61	0	1 2 0	0	0	6000	2,06 1855 67	291 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
62	0	0	0	0	0	0	261 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
63	0	0	60	0	600	0,30 3030 3	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
64	0	0	0	0	0	0	174 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
65	60	0	0	0	6000	3,44 8275 86	174 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
66	0	0	0	0	0	0	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
67	0	0	0	0	0	0	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

68	60	0	12 0	0	7200	1,96 7213 11	366 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
69	60	0	12 0	0	7200	2,52 6315 79	285 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
70	12 0	1 2 0	12 0	0	19200	7,71 0843 37	249 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
71	12 0	1 2 0	0	0	18000	6,25	288 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
72	0	0	0	0	0	0	315 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
73	0	0	0	0	0	0	264 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
74	0	0	0	0	0	0	207 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
75	0	0	0	0	0	0	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
76	12 0	0	15 0	0	13500	7,75 8620 69	174 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
77	0	0	0	0	0	0	240 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
78	0	1 2 0	0	0	6000	3,84 6153 85	156 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

79	0	0	0	0	0	0	186 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
80	0	0	0	0	0	0	141 0	4,88 9668 48	2,33 2498 17	
81	0	0	0	0	0	0	111 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
82	12 0	0	0	0	12000	12,9 0322 58	930	4,88 9668 48	2,33 2498 17	- 1,704780 21
83	60	0	0	0	6000	11,1 1111 11	540	4,88 9668 48	2,33 2498 17	- 1,704780 21
84	0	0	0	0	0	0	360	4,88 9668 48	2,33 2498 17	- 1,704780 21
85	0	0	0	0	0	0	108 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
86	60	0	0	0	6000	5,55 5555 56	108 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
87	0	0	0	30	30	0,02 8571 43	105 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
88	0	0	0	90	90	0,06 25	144 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

89	60	0	0	0	6000	1,88 6792 45	318 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
90	0	0	0	0	0	0	330 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
91	0	0	0	0	0	0	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
92	0	0	0	0	0	0	327 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
93	0	0	0	0	0	0	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
94	0	0	0	0	0	0	255 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
95	0	0	0	0	0	0	309 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
96	0	0	0	0	0	0	372 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
97	0	0	12 0	0	1200	0,37 3831 78	321 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
98	0	0	0	0	0	0	390 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
99	0	0	0	0	0	0	228 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

100	0	0	12 0	0	1200	0,36 0360 36	333 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
101	0	0	0	0	0	0	348 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
102	0	0	0	0	0	0	231 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
103	60	1 2 0	12 0	0	13200	6,66 6666 67	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
104	0	0	12 0	0	1200	0,45 4545 45	264 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
105	0	0	0	0	0	0	276 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
106	24 0	0	0	0	24000	7,27 2727 27	330 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
107	0	0	0	0	0	0	264 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
108	0	0	0	0	0	0	381 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
109	12 0	0	0	0	12000	3,66 9724 77	327 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

110	0	0	12 0	0	1200	0,47 6190 48	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
111	0	0	0	0	0	0	393 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
112	12 0	0	0	0	12000	3,96 0396 04	303 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
113	0	0	0	0	0	0	330 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
114	60	0	0	0	6000	2,15 0537 63	279 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
115	12 0	0	0	0	12000	4,21 0526 32	285 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
116	24 0	0	12 0	0	25200	9,13 0434 78	276 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
117	12 0	0	0	0	12000	4,25 5319 15	282 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
118	0	0	12 0	0	1200	0,40 8163 27	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
119	0	2 4 0	12 0	0	13200	4,94 3820 22	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
120	0	0	12 0	0	1200	0,40 8163 27	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

121	0	0	0	0	0	0	219 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
122	0	0	0	24 0	240	0,07 5471 7	318 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
123	0	0	0	0	0	0	930	4,88 9668 48	2,33 2498 17	- 1,704780 21
124	0	0	0	0	0	0	324 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
125	0	0	0	0	0	0	240 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
126	60	0	0	0	6000	3,84 6153 85	156 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
127	12 0	0	0	0	12000	4,59 7701 15	261 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
128	0	0	0	0	0	0	180 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
129	0	1 2 0	0	0	6000	2,04 0816 33	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
130	12 0	0	0	0	12000	5,36 6726 3	223 6	4,88 9668 48	2,33 2498 17	- 1,704780 21
131	0	0	0	0	0	0	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21



132	0	3 0	0	0	1500	0,64 9350 65	231 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
133	0	0	0	0	0	0	255 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
134	0	0	0	0	0	0	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
135	0	0	0	0	0	0	204 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
136	0	0	0	0	0	0	201 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
137	0	0	0	0	0	0	132 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
138	0	0	0	0	0	0	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
139	0	0	0	0	0	0	291 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
140	0	0	12 0	0	1200	0,65 5737 7	183 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
141	0	0	12 0	0	1200	0,60 6060 61	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

142	0	0	0	0	0	0	177 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
143	60	0	0	0	6000	5,88 2352 94	102 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
144	60	0	0	0	6000	3,57 1428 57	168 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
145	0	0	0	0	0	0	132 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
146	0	0	0	0	0	0	234 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
147	0	0	0	0	0	0	144 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
148	0	0	0	0	0	0	261 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
149	0	0	0	0	0	0	171 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
150	0	0	12 0	0	1200	0,60 6060 61	198 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
151	0	0	0	0	0	0	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
152	0	1 2 0	0	0	6000	3,70 3703 7	162 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

153	0	0	0	0	0	0	186 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
154	0	6 0	0	0	3000	1,49 2537 31	201 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
155	0	0	0	0	0	0	150 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
156	0	1 2 0	0	0	6000	3,07 6923 08	195 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
157	0	0	12 0	0	1200	0,47 0588 24	255 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
158	0	0	0	0	0	0	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
159	12 0	6 0	0	0	15000	6,94 4444 44	216 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
160	60	0	0	0	6000	2,15 0537 63	279 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
161	60	0	0	0	6000	1,81 8181 82	330 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
162	0	0	0	0	0	0	348 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

163	60	0	0	0	6000	2,40 9638 55	249 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
164	0	1 8 0	0	0	9000	3,03 0303 03	297 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
165	0	1 2 0	12 0	0	7200	2,28 5714 29	315 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
166	60	0	0	0	6000	2,32 5581 4	258 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
167	0	0	12 0	0	1200	0,46 5116 28	258 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
168	0	9 0	12 0	0	5700	1,82 6923 08	312 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
169	0	0	0	0	0	0	297 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
170	0	1 2 0	0	0	6000	2	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
171	0	2 4 0	0	0	12000	3,57 1428 57	336 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
172	0	0	0	0	0	0	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
173	0	0	0	0	0	0	342 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

174	0	0	0	0	0	0	303 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
175	0	1 4 0	60	0	7600	2,37 5	320 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
176	12 0	0	18 0	0	13800	3,62 2047 24	381 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
177	60	0	0	0	6000	1,62 6016 26	369 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
178	24 0	1 2 0	0	0	30000	9,43 3962 26	318 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
179	12 0	0	0	0	12000	3,53 9823 01	339 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
180	0	0	0	0	0	0	306 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
181	0	0	0	0	0	0	366 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
182	0	2 4 0	12 0	0	13200	3,66 6666 67	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
183	0	0	0	0	0	0	273 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
184	0	1 2 0	0	0	6000	1,30 7189 54	459 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

185	0	0	0	0	0	0	426 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
186	0	0	0	0	0	0	348 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
187	0	0	0	0	0	0	390 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
188	0	0	0	0	0	0	336 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
189	12 0	1 2 0	0	0	18000	5	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
190	0	0	0	12 0	120	0,02 6845 64	447 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
191	0	0	60	0	600	0,2	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
192	24 0	1 2 0	0	0	30000	6,66 6666 67	450 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
193	12 0	0	0	0	12000	3,47 8260 87	345 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
194	24 0	0	0	0	24000	6,10 6870 23	393 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

195	12 0	0	0	0	12000	3,80 9523 81	315 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
196	60	0	12 0	0	7200	2,14 2857 14	336 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
197	12 0	0	0	0	12000	3,92 1568 63	306 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
198	60	0	0	0	6000	1,90 4761 9	315 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
199	12 0	0	0	0	12000	4,12 3711 34	291 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
200	24 0	0	0	0	24000	10,8 1081 08	222 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
201	0	0	0	0	0	0	309 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
202	0	1 2 0	0	0	6000	1,56 25	384 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
203	12 0	0	12 0	0	13200	4,48 9795 92	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
204	12 0	0	0	0	12000	3,12 5	384 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
205	12 0	0	0	0	12000	4,25 5319 15	282 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

206	0	0	0	0	0	0	345 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
207	24 0	0	0	0	24000	6,89 6551 72	348 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
208	0	0	0	0	0	0	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
209	0	0	0	0	0	0	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
210	0	0	0	12 0	120	0,03 3333 33	360 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
211	24 0	0	0	0	24000	8,16 3265 31	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
212	12 0	0	12 0	0	13200	3,33 3333 33	396 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
213	0	0	0	0	0	0	375 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
214	0	0	12 0	0	1200	0,40 8163 27	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
215	12 0	6 0	0	0	15000	4,31 0344 83	348 0	4,88 9668 48	2,33 2498 17	- 1,704780 21



216	0	0	0	0	0	0	393 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
217	0	1 2 0	12 0	0	7200	2,69 6629 21	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
218	0	0	0	0	0	0	372 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
219	0	0	0	0	0	0	321 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
220	0	0	0	0	0	0	279 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
221	60	1 2 0	0	0	12000	3,41 8803 42	351 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
222	24 0	0	0	0	24000	7,84 3137 25	306 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
223	24 0	6 0	0	0	27000	9,18 3673 47	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
224	90	0	0	0	9000	3,79 7468 35	237 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
225	48 0	2 4 0	12 0	0	61200	25,1 8518 52	243 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
226	24 0	2 4 0	0	0	36000	13,4 8314 61	267 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

227	12 0	0	30 0	0	15000	4,62 9629 63	324 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
228	60	0	24 0	0	8400	2,37 2881 36	354 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
229	60	0	0	0	6000	1,86 9158 88	321 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
230	0	0	0	0	0	0	288 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
231	0	6 0	0	0	3000	0,87 7192 98	342 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
232	0	0	0	12 0	120	0,03 7383 18	321 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
233	0	0	0	0	0	0	303 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
234	0	0	0	0	0	0	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
235	0	0	0	0	0	0	234 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
236	60	0	0	0	6000	2,29 8850 57	261 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
237	0	0	0	0	0	0	237 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

238	60	0	0	0	6000	2,22 2222 22	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
239	12 0	0	12 0	0	13200	4,68 0851 06	282 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
240	42 0	0	0	0	42000	20	210 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
241	12 0	0	0	0	12000	5,97 0149 25	201 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>
242	0	0	12 0	0	1200	0,55 5555 56	216 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
243	30 0	0	0	0	30000	11,7 6470 59	255 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
244	0	0	60	0	600	0,51 2382 58	117 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
245	0	0	0	0	0	0	324 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
246	60	0	0	0	6000	2,94 1176 47	204 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
247	0	0	0	0	0	0	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

248	0	0	12 0	0	1200	0,41 6666 67	288 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
249	0	0	0	0	0	0	291 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
250	12 0	0	0	0	12000	3,25 2032 52	369 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
251	0	1 2 0	0	0	6000	3,44 8275 86	174 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
252	12 0	0	0	0	12000	5,40 5405 41	222 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
253	0	0	0	0	0	0	780	4,88 9668 48	2,33 2498 17	- 1,704780 21
254	12 0	0	12 0	0	13200	4,48 9795 92	294 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
255	24 0	0	12 0	0	25200	11,6 6666 67	216 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
256	0	0	0	0	0	0	300 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
257	0	0	0	0	0	0	234 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
258	12 0	1 2 0	12 0	0	19200	7,80 4878 05	246 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

259	0	0	12 0	0	1200	0,48 1927 71	249 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
260	30	0	12 0	0	4200	1,52 1187 98	276 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
261	12 0	0	0	0	12000	4,49 2699 36	267 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
262	0	0	0	0	0	0	252 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
263	12 0	1 2 0	12 0	0	19200	7,60 9988 11	252 3	4,88 9668 48	2,33 2498 17	- 1,704780 21
264	0	1 2 0	0	0	6000	1,85 1280 47	324 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
265	0	0	12 0	0	1200	0,42 9953 42	279 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
266	0	0	12 0	0	1200	0,49 9791 75	240 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
267	0	0	12 0	0	1200	0,49 9791 75	240 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
268	0	0	12 0	0	1200	0,39 2028 75	306 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Su bgr up</b>	$C_{iA}$	$C_{iB}$	$C_{iC}$	$C_{iD}$	$D_i$	$U_i$	$n_i$	<b>UCL</b>	<b>CL</b>	<b>LCL</b>

269	0	1 2 0	0	0	6000	2,24 6349 68	267 1	4,88 9668 48	2,33 2498 17	- 1,704780 21
270	0	2 4 0	12 0	0	13200	7,08 5346 22	186 3	4,88 9668 48	2,33 2498 17	- 1,704780 21
271	0	0	0	0	0	0	321 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
272	0	0	0	12 0	120	0,04 4444 44	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
273	30	0	0	0	3000	1,17 6470 59	255 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
274	12 0	6 0	12 0	0	16200	6,13 6363 64	264 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
275	0	0	0	0	0	0	132 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
276	60	6 0	0	0	9000	4,34 7826 09	207 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
277	60	0	0	0	6000	2,85 7142 86	210 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
278	0	0	0	0	0	0	270 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
279	12 0	1 2 0	48 0	0	22800	6,60 8695 65	345 0	4,88 9668 48	2,33 2498 17	- 1,704780 21

280	18 0	0	24 0	0	20400	7,63 4730 54	267 2	4,88 9668 48	2,33 2498 17	- 1,704780 21
281	12 0	1 2 0	0	0	18000	5,66 0377 36	318 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
282	12 0	0	0	0	12000	4,34 7826 09	276 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
283	12 0	2 4 0	0	0	24000	7,27 2727 27	330 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
284	0	0	0	0	0	0	207 0	4,88 9668 48	2,33 2498 17	- 1,704780 21
<b>Tot al</b>	14 79 0	5 8 4 0	73 20	96 0			7910 66			