

## BAB V

### KESIMPULAN DAN SARAN

#### 5.1 Kesimpulan

1. Waktu konsentrasi yang dibutuhkan air dari titik terjauh (hulu) sampai ke titik tinjauan (hilir) pada Jalan Prof. Dr. Supomo yaitu 29.0563 menit.
2. Berdasarkan perhitungan debit rencana, kapasitas saluran riil sebesar  $5.4086 \text{ m}^3/\text{s}$  tidak dapat menampung debit hujan rencana periode ulang 2, 5, dan 10 tahun berturut-turut sebesar  $5.5516 \text{ m}^3/\text{s}$ ,  $6.8281 \text{ m}^3/\text{s}$ , dan  $7.6466 \text{ m}^3/\text{s}$ , sedangkan kapasitas saluran asli sebesar  $10.3919 \text{ m}^3/\text{s}$  masih dapat menampung debit hujan rencana dengan periode ulang yang sama berturut-turut.
3. Saluran pada daerah studi bercabang menjadi dua dengan kontribusi masing-masing kapasitas saluran adalah saluran arah barat sebesar  $5.4086 \text{ m}^3/\text{s}$  dan saluran arah timur sebesar  $3.0707 \text{ m}^3/\text{s}$ , sehingga kapasitas total sebesar  $8.4793 \text{ m}^3/\text{s}$ .
4. Berdasarkan perbandingan kapasitas saluran dengan debit hujan kejadian nyata tanggal 8 April 2012, terjadi kelebihan debit yang tidak dapat ditampung oleh saluran Jalan Prof. Dr. Supomo sebesar  $6.4449 \text{ m}^3/\text{s}$ .
5. Hasil analisis menunjukkan bahwa ketidakmampuan saluran dalam menampung debit disebabkan oleh hujan lokal sesaat dengan durasi hujan yang singkat, sehingga intensitas hujan terlalu besar. Terlihat dari

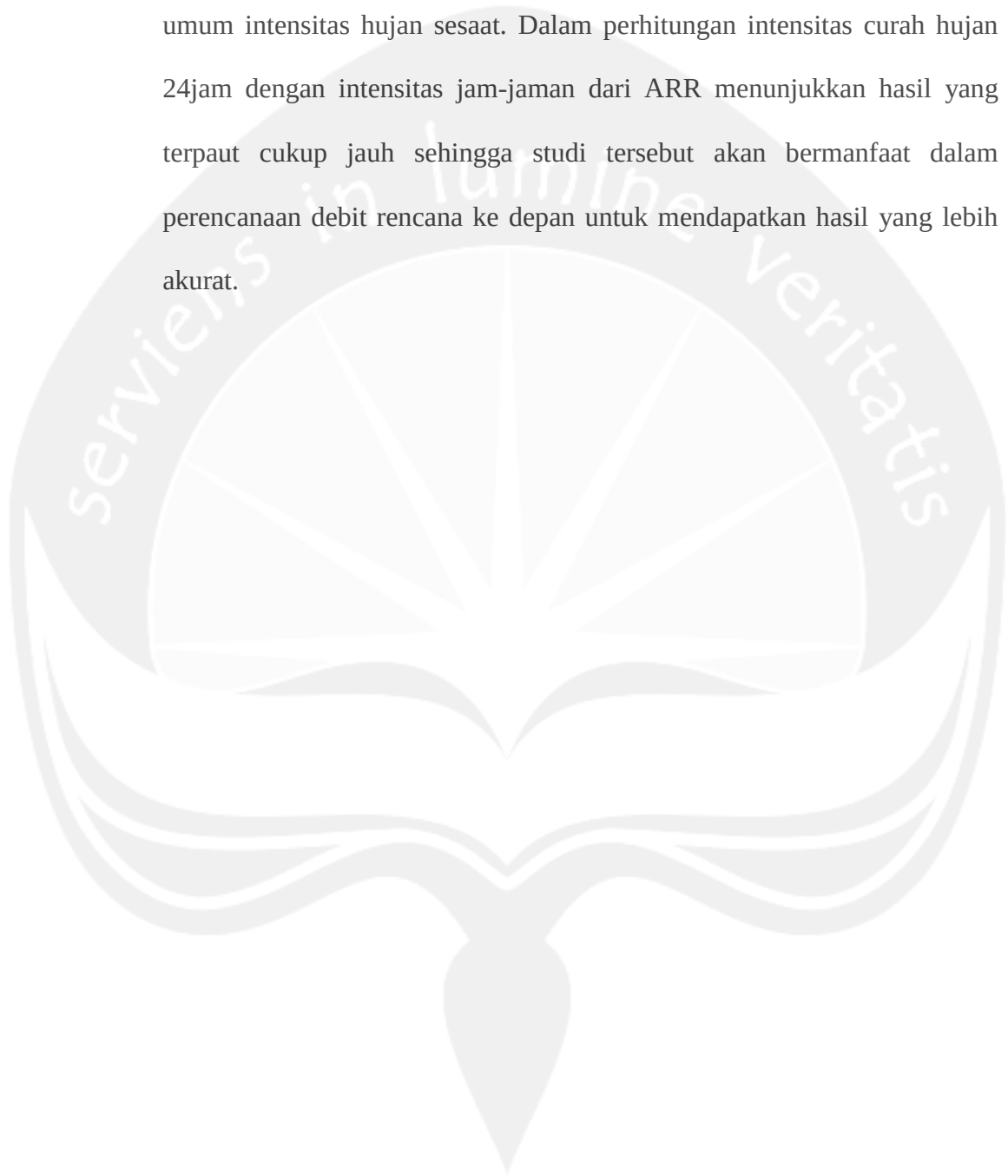
perhitungan intensitas hujan pada periode ulang 2, 5, dan 10 tahun berturut-turut adalah 61.8223 mm/jam, 76.0377 mm/jam, dan 85.1519 mm/jam, sedangkan intensitas hujan kejadian nyata (Tanggal 8 April 2012) sebesar 132 mm/jam.

6. Berdasarkan perbandingan kapasitas saluran riil dan saluran asli, saluran pada daerah studi tidak dapat menampung debit hujan yang terjadi karena disebabkan oleh:
  - a. sedimentasi dan penumpukan sampah pada saluran yang menyebabkan berkurangnya kapasitas saluran,
  - b. penggunaan fungsi saluran drainase untuk mengalirkan air hujan bercampur dengan air limbah rumah tangga,
  - c. terjadi *backwater* di muara saluran sehingga air tidak dapat mengalir dengan lancar.

## 5.2 **Saran**

1. Diperlukan perawatan pada saluran terutama saluran Jalan Prof. Dr. Supomo dengan melakukan pengerukan sedimen sebelum musim penghujan untuk menghindari meluapnya air.
2. Memastikan adanya dokumen saluran hasil perancangan untuk membandingkan dengan hasil di lapangan sebagai salah satu parameter yang digunakan dalam menganalisis.
3. Untuk penelitian selanjutnya akan lebih baik memperhitungkan air limbah yang masuk ke dalam sistem drainase.

4. Perlu dilakukan studi yang meninjau kembali hubungan antara rumus pendekatan persamaan intensitas menurut Mononobe dengan persamaan umum intensitas hujan sesaat. Dalam perhitungan intensitas curah hujan 24jam dengan intensitas jam-jaman dari ARR menunjukkan hasil yang terpaut cukup jauh sehingga studi tersebut akan bermanfaat dalam perencanaan debit rencana ke depan untuk mendapatkan hasil yang lebih akurat.



## DAFTAR PUSTAKA

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# L A M P I R A N





**PEMERINTAH PROVINSI DAERAH ISTIMEWA YOGYAKARTA  
BADAN KESATUAN BANGSA DAN PERLINDUNGAN MASYARAKAT  
( BADAN KESBANGLINMAS )**

Jl Jenderal Sudirman No 5 Yogyakarta - 55233  
Telepon (0274) 551136, 551275, Fax (0274) 551137  
YOGYAKARTA

Yogyakarta, 18 April 2012

Nomor : 074 / 310 / Kesbang / 2012  
Perihal : Rekomendasi Ijin Penelitian

Kepada Yth.  
Gubernur Jawa Tengah  
Up. Kepala Badan Kesbangpol dan Linmas  
Provinsi Jawa Tengah  
di

SEMARANG

Memperhatikan surat :

Dari : Dekan Fakultas Teknik Universitas Atma Jaya Yogyakarta  
Nomor : 0825 / XI / U / 2012  
Tanggal : 16 April 2012  
Perihal : Permohonan Data

Setelah mempelajari surat pemberitahuan dan proposal yang diajukan, maka dapat diberikan surat rekomendasi tidak keberatan untuk melaksanakan penelitian dalam rangka penyusunan skripsi dengan judul : " **ANALISIS PERMASALAHAN SISTEM DRAINASE JALAN PROF. DR. SUPOMO, KECAMATAN LAWIYAN, KABUPATEN SURAKARTA** ", kepada :

Nama : FELISITAS APRILIA RASTRI UTAMI  
NIM : 08 02 13045  
Prodi/Jurusan : Teknik Sipil  
Fakultas : Teknik Universitas Atma Jaya Yogyakarta  
Lokasi Penelitian : Kabupaten Surakarta, Provinsi Jawa Tengah  
Waktu Penelitian : April s/d Juni 2012

Sehubungan dengan maksud tersebut, diharapkan agar pihak yang terkait dapat memberikan bantuan / fasilitas yang dibutuhkan.

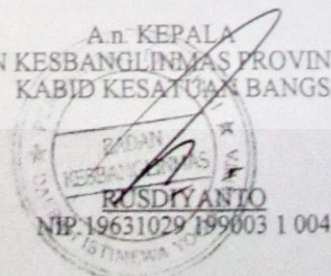
Kepada yang bersangkutan diwajibkan :

1. Menghormati dan mentaati peraturan dan tata tertib yang berlaku di wilayah penelitian;
2. Tidak dibenarkan melakukan penelitian yang tidak sesuai atau tidak ada kaitannya dengan judul penelitian dimaksud;
3. Melaporkan hasil penelitian kepada Badan Kesbanglinmas Provinsi DIY;

Rekomendasi Ijin Penelitian ini dinyatakan tidak berlaku, apabila ternyata pemegang tidak mentaati ketentuan tersebut di atas.

Demikian untuk menjadikan maklum.

A.n KEPALA  
BADAN KESBANGLINMAS PROVINSI DIY  
KABID KESATUAN BANGSA



Tembusan Kepada Yth :

1. Gubernur DIY (sebagai laporan);
2. Dekan Fakultas Teknik Universitas Atma Jaya Yogyakarta;
3. Yang bersangkutan



**PEMERINTAH PROVINSI JAWA TENGAH**  
**BADAN KESATUAN BANGSA, POLITIK DAN PERLINDUNGAN MASYARAKAT**

JI. A. YANI NO. 160 TELP. (024) 8454990 FAX. (024) 8414205, 8313122  
SEMARANG - 50136

**SURAT REKOMENDASI SURVEY / RISET**  
**Nomor : 070 / 1035 / 2012**

- I. DASAR : 1. Peraturan Menteri Dalam Negeri Republik Indonesia No. 64 Tahun 2011 Tanggal 20 Desember 2011.
2. Surat Edaran Gubernur Jawa Tengah. Nomor 070 / 265 / 2004. Tanggal 20 Februari 2004.
- II. MEMBACA : Surat dari Gubernur DIY, Nomor 074 / 310 / Kesbang / 2 012, Tanggal 18 April 2012.
- III. Pada Prinsipnya kami TIDAK KEBERATAN / Dapat Menerima atas Pelaksanaan Penelitian / Survey di Kota Surakarta.
- IV. Yang dilaksanakan oleh :
- 1. Nama : FELISITA APRILIA RASTRI UTAMI.
  - 2. Kebangsaan : Indonesia.
  - 3. Alamat : Pringgolayan Jl.Garuda Gg Tutul 1 Panguntapan Bantul.
  - 4. Pekerjaan : Mahasiswa.
  - 5. Penanggung Jawab : Anastasia Yunika,ST,M.Eng.
  - 6. Judul Penelitian : Analisis Sistem Drainase Jalan Prof DR Supomo, Kecamatan Lawiyan, Kota Surakarta.
  - 7. Lokasi : Kota Surakarta.

**V. KETENTUAN SEBAGAI BERIKUT :**

1. Sebelum melakukan kegiatan terlebih dahulu melaporkan kepada Pejabat Setempat / Lembaga Swasta yang akan dijadikan obyek lokasi untuk mendapatkan petunjuk seperlunya dengan menunjukkan Surat Pemberitahuan ini.
2. Pelaksanaan survey / riset tidak disalah gunakan untuk tujuan tertentu yang dapat mengganggu kestabilan pemerintahan. Untuk penelitian yang mendapat dukungan dana dari sponsor baik dari dalam negeri maupun luar negeri, agar dijelaskan pada saat mengajukan perijinan. Tidak membahas masalah Politik dan / atau agama yang dapat menimbulkan terganggunya stabilitas keamanan dan ketertiban.

3. Surat Rekomendasi dapat dicabut dan dinyatakan tidak berlaku apabila pemegang Surat Rekomendasi ini tidak mentaati / meng-indehkan peraturan yang berlaku atau obyek penelitian menolak untuk menerima Peneliti.
  4. Setelah survey / riset selesai, supaya menyerahkan hasilnya kepada Badan Kesbangpol Dan Linmas Provinsi Jawa Tengah.
- VI. Surat Rekomendasi Penelitian / Riset ini berlaku dari :  
April s.d Agustus 2012.
- VII. Demikian harap menjadikan perhatian dan maklum.

Semarang, 19 April 2012

an. GUBERNUR JAWA TENGAH  
KEPALA BADAN KESBANGPOL DAN LINMAS  
PROVINSI JAWA TENGAH



Des. ACHMAD ROFAL, MSi  
Pembina Utama Muda  
NIP. 195912021982031005

NO: 070 / 473, IV, 2012



TAVIANA E.K., SH, M.Si.  
NIP : 19650219 199303 2 00



**UNIVERSITAS ATMA JAYA YOGYAKARTA**  
Fakultas Teknik

Nomor : 1389b/XI/U/2012

Hal : Permohonan Data dan Ijin Survey

28 Juni 2012

Kepada  
Yth. Kepala Kantor Balai Besar  
Wilayah Sungai Bengawan Solo  
di Surakarta

Dengan hormat,

Dalam rangka menyelesaikan pendidikan Program Strata 1 pada Program Studi Teknik Sipil, Fakultas Teknik, Universitas Atma Jaya Yogyakarta setiap mahasiswa diwajibkan menempuh Tugas Akhir (Ujian Sarjana), dimana tugas tersebut sangat membutuhkan data pendukung secara nyata dan lengkap.

Untuk itu kami mohon Bapak/Ibu berkenan memberikan Data tentang "Curva Hujan Lengkap Wilayah Timur Bengawan Solo dan Peta Persebaran Stasiun Hujan" kepada mahasiswa:

Nama : Felisitas Aprilia Rastri Utami  
NPM : 080213045  
Program Studi : Teknik Sipil  
Semester : Genap  
Tahun Akademik : 2011/2012  
Alamat : Pringgolayan Jl. Garuda Gg Tutul I Rt/Rw 3/44, Banguntapan Bantul

Atas perhatian dan kerjasamanya, kami ucapkan terima kasih.



Dr. Ir. AM. Ade Lisantono, M. Eng.



**UNIVERSITAS ATMA JAYA YOGYAKARTA**  
Fakultas Teknik

Nomor : 1283/XI/U/2012  
Hal : Permohonan Data dan Ijin Survey

12 Juni 2012

Kepada  
Yth. Bapak Kepala Balai PSDA Bengawan Solo  
Jl. Solo Karanganyar Km 7  
di Sukoharjo

Dengan hormat,

Dalam rangka menyelesaikan pendidikan Program Strata 1 pada Program Studi Teknik Sipil, Fakultas Teknik, Universitas Atma Jaya Yogyakarta setiap mahasiswa diwajibkan menempuh Tugas Akhir (Ujian Sarjana), dimana tugas tersebut sangat membutuhkan data pendukung secara nyata dan lengkap.

Untuk itu kami mohon Bapak/Ibu berkenan memberikan Data tentang "Curah Hujan Das Bengawan Solo" kepada mahasiswa:

Nama : Felisitas Aprilia Rastri Utami  
NPM : 080213045  
Program Studi : Teknik Sipil  
Semester : Genap  
Tahun Akademik : 2011/2012  
Alamat : Pringgolayan Jl. Garuda Gg Tutul I Rt/Rw 3/44, Banguntapan,  
Bantul

Atas perhatian dan kerjasamanya, kami ucapkan terima kasih.



Dekan,  
Ir. AM. Ade Lisantono, M. Eng.

## Lampiran 1

**Tabel pengukuran menggunakan alat theodolite**

[illegible]

## Lanjutan Lampiran 1

[illegible]

## Lanjutan Lampiran 1

[illegible]

## Lanjutan Lampiran 1

[illegible]

## Lanjutan Lampiran 1

[illegible]

## Lanjutan Lampiran 1

[illegible]

## Lanjutan Lampiran 1

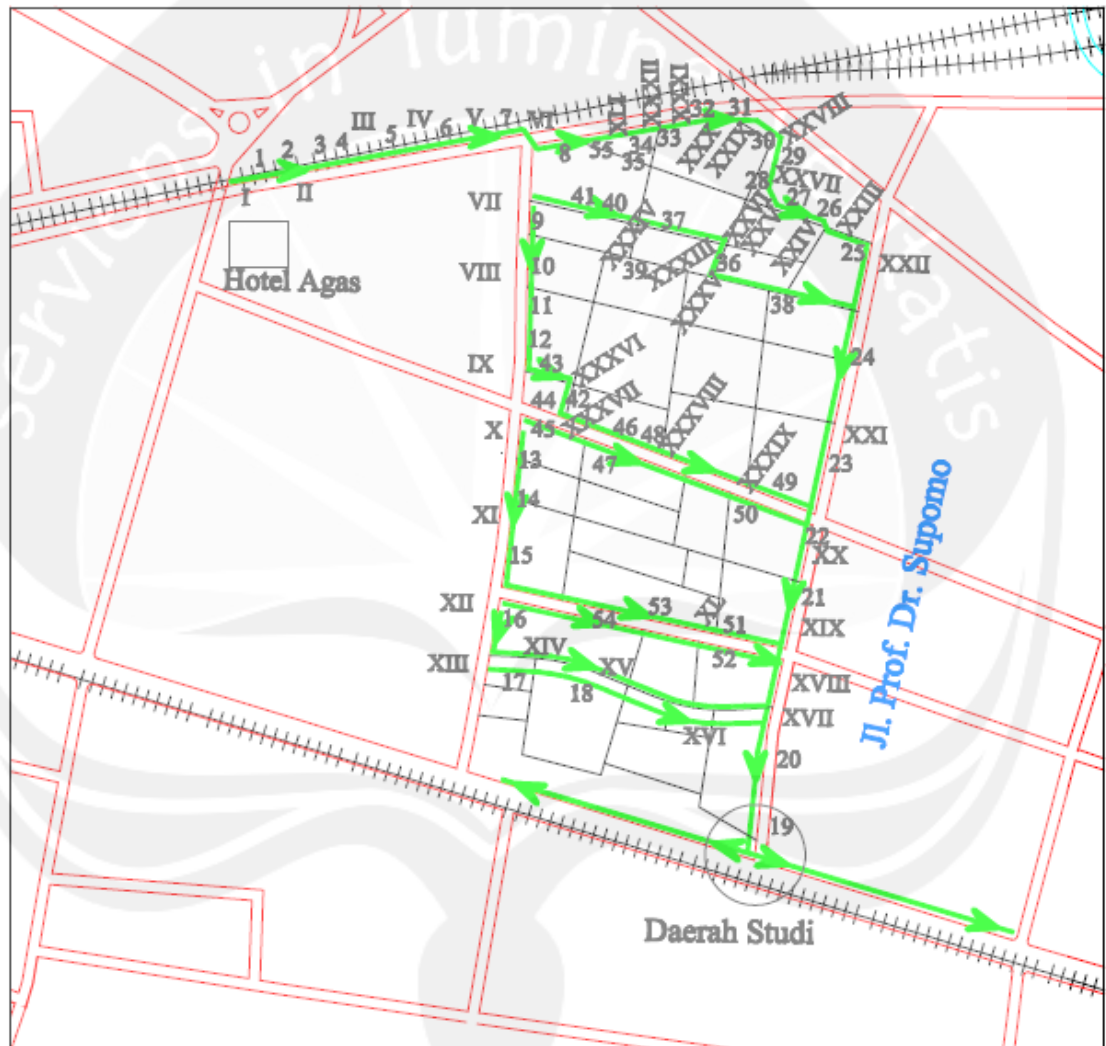
[illegible]

**Lanjutan Lampiran 1**

| Stasiun | Arah  | TI   | Benang |        |       | $\alpha$ |    |    | h  |    |    | D          | $\Delta H$ |
|---------|-------|------|--------|--------|-------|----------|----|----|----|----|----|------------|------------|
|         |       |      | Atas   | Tengah | Bawah | 0        | '  | "  | 0  | '  | "  |            |            |
| XL      | 51    | 1474 | 2250   | 2134   | 2018  | 100      | 22 | 40 | 90 | 0  | 0  | 23200      | -660       |
|         | 52    |      | 2900   | 2494   | 2088  | 105      | 15 | 0  | 90 | 0  | 0  | 81200      | -1020      |
|         | 53    |      | 1988   | 1920   | 1852  | 282      | 42 | 10 | 90 | 0  | 0  | 13600      | -446       |
|         | 54    |      | 2084   | 1762   | 1440  | 277      | 4  | 0  | 90 | 0  | 0  | 64400      | -288       |
|         |       |      |        |        |       |          |    |    |    |    |    |            |            |
| XLI     | XXXII | 1445 | 1902   | 1701   | 1500  | 0        | 0  | 0  | 89 | 34 | 50 | 40197.8456 | 38.281     |
|         | 55    |      | 2060   | 2010   | 1960  | 171      | 5  | 0  | 90 | 29 | 30 | 9999.4057  | -650.809   |

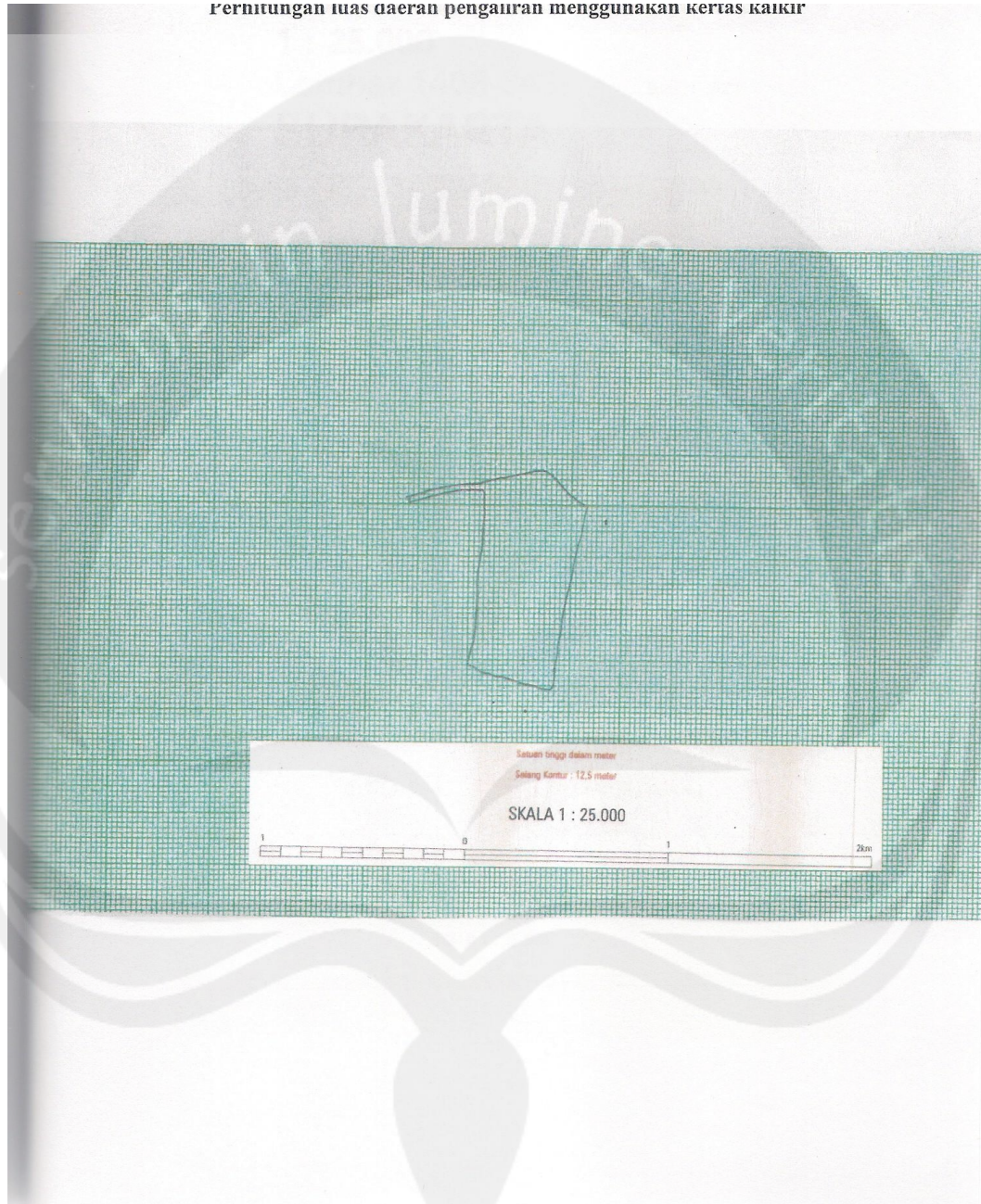
## Lanjutan Lampiran 1

Gambar titik pengukuran menggunakan alat *theodolite*



## Lampiran 2

Pernitungan luas daeran pengauran menggunakan kertas kalkir



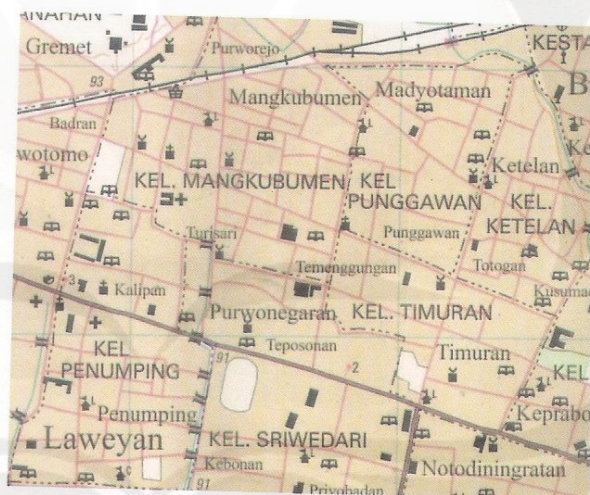
Lampiran 3

PETA RUPABUMI DIGITAL INDONESIA  
1 : 25.000

Lembar 1408-343

Edisi : I - 2001

SURAKARTA



KETERANGAN

GEDUNG DAN BANGUNAN LAINNYA

- |  |                |
|--|----------------|
|  | Pemukiman      |
|  | Bangunan       |
|  | Mesjid, Gereja |
|  | Vihara, Pura   |

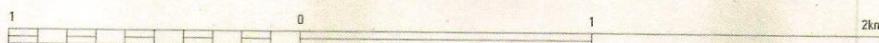
TUMBUH-TUMBUHAN

- |  |                     |
|--|---------------------|
|  | Sawah Irigasi       |
|  | Sawah Tadah Hujan   |
|  | Kebun/Perkebunan    |
|  | Hutan               |
|  | Semak/Belukar       |
|  | Tegalan/Ladang      |
|  | Rumpuk/Tanah Kosong |
|  | Hutan Raw           |

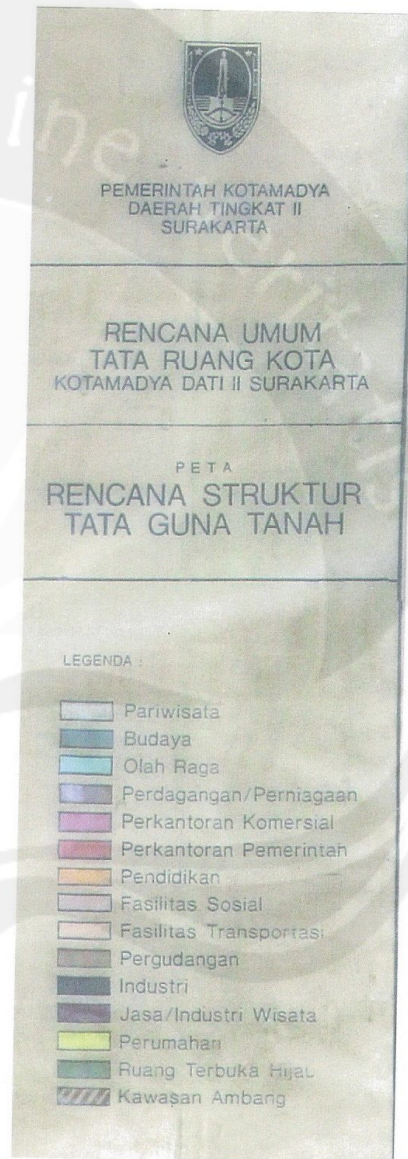
Satuan tinggi dalam meter

Selang Kontur : 12,5 meter

SKALA 1 : 25.000



# Lampiran 4



# Lampiran 5

## Tabel Distribusi $t$



| df  | 0,25   | 0,2    | 0,15   | 0,1    | 0,05   | 0,025   | 0,02    | 0,01    | 0,005   |
|-----|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 1   | 1,0000 | 1,3764 | 1,9626 | 3,0777 | 6,3138 | 12,7062 | 15,8945 | 31,8205 | 63,6567 |
| 2   | 0,8165 | 1,0607 | 1,3862 | 1,8856 | 2,9200 | 4,3027  | 4,8487  | 6,9646  | 9,9248  |
| 3   | 0,7649 | 0,9785 | 1,2498 | 1,6377 | 2,3534 | 3,1824  | 3,4819  | 4,5407  | 5,8409  |
| 4   | 0,7407 | 0,9410 | 1,1896 | 1,5332 | 2,1318 | 2,7764  | 2,9985  | 3,7469  | 4,6041  |
| 5   | 0,7267 | 0,9195 | 1,1558 | 1,4759 | 2,0150 | 2,5706  | 2,7565  | 3,3649  | 4,0321  |
| 6   | 0,7176 | 0,9057 | 1,1342 | 1,4398 | 1,9432 | 2,4469  | 2,6122  | 3,1427  | 3,7074  |
| 7   | 0,7111 | 0,8960 | 1,1192 | 1,4149 | 1,8946 | 2,3646  | 2,5168  | 2,9980  | 3,4995  |
| 8   | 0,7064 | 0,8889 | 1,1081 | 1,3968 | 1,8595 | 2,3060  | 2,4490  | 2,8965  | 3,3554  |
| 9   | 0,7027 | 0,8834 | 1,0997 | 1,3830 | 1,8331 | 2,2622  | 2,3984  | 2,8214  | 3,2498  |
| 10  | 0,6998 | 0,8791 | 1,0931 | 1,3722 | 1,8125 | 2,2281  | 2,3593  | 2,7638  | 3,1693  |
| 11  | 0,6974 | 0,8755 | 1,0877 | 1,3634 | 1,7959 | 2,2010  | 2,3281  | 2,7181  | 3,1058  |
| 12  | 0,6955 | 0,8726 | 1,0832 | 1,3562 | 1,7823 | 2,1788  | 2,3027  | 2,6810  | 3,0545  |
| 13  | 0,6938 | 0,8702 | 1,0795 | 1,3502 | 1,7709 | 2,1604  | 2,2816  | 2,6503  | 3,0123  |
| 14  | 0,6924 | 0,8681 | 1,0763 | 1,3450 | 1,7613 | 2,1448  | 2,2638  | 2,6245  | 2,9768  |
| 15  | 0,6912 | 0,8662 | 1,0735 | 1,3406 | 1,7531 | 2,1314  | 2,2485  | 2,6025  | 2,9467  |
| 16  | 0,6901 | 0,8647 | 1,0711 | 1,3368 | 1,7459 | 2,1199  | 2,2354  | 2,5835  | 2,9208  |
| 17  | 0,6892 | 0,8633 | 1,0690 | 1,3334 | 1,7396 | 2,1098  | 2,2238  | 2,5669  | 2,8982  |
| 18  | 0,6884 | 0,8620 | 1,0672 | 1,3304 | 1,7341 | 2,1009  | 2,2137  | 2,5524  | 2,8784  |
| 19  | 0,6876 | 0,8610 | 1,0655 | 1,3277 | 1,7291 | 2,0930  | 2,2047  | 2,5395  | 2,8609  |
| 20  | 0,6870 | 0,8600 | 1,0640 | 1,3253 | 1,7247 | 2,0860  | 2,1967  | 2,5280  | 2,8453  |
| 21  | 0,6864 | 0,8591 | 1,0627 | 1,3232 | 1,7207 | 2,0796  | 2,1894  | 2,5176  | 2,8314  |
| 22  | 0,6858 | 0,8583 | 1,0614 | 1,3212 | 1,7171 | 2,0739  | 2,1829  | 2,5083  | 2,8188  |
| 23  | 0,6853 | 0,8575 | 1,0603 | 1,3195 | 1,7139 | 2,0687  | 2,1770  | 2,4999  | 2,8073  |
| 24  | 0,6848 | 0,8569 | 1,0593 | 1,3178 | 1,7109 | 2,0639  | 2,1715  | 2,4922  | 2,7969  |
| 25  | 0,6844 | 0,8562 | 1,0584 | 1,3163 | 1,7081 | 2,0595  | 2,1666  | 2,4851  | 2,7874  |
| 26  | 0,6840 | 0,8557 | 1,0575 | 1,3150 | 1,7056 | 2,0555  | 2,1620  | 2,4786  | 2,7787  |
| 27  | 0,6837 | 0,8551 | 1,0567 | 1,3137 | 1,7033 | 2,0518  | 2,1578  | 2,4727  | 2,7707  |
| 28  | 0,6834 | 0,8546 | 1,0560 | 1,3125 | 1,7011 | 2,0484  | 2,1539  | 2,4671  | 2,7633  |
| 29  | 0,6830 | 0,8542 | 1,0553 | 1,3114 | 1,6991 | 2,0452  | 2,1503  | 2,4620  | 2,7564  |
| 30  | 0,6828 | 0,8538 | 1,0547 | 1,3104 | 1,6973 | 2,0423  | 2,1470  | 2,4573  | 2,7500  |
| 31  | 0,6825 | 0,8534 | 1,0541 | 1,3095 | 1,6955 | 2,0395  | 2,1438  | 2,4528  | 2,7440  |
| 32  | 0,6822 | 0,8530 | 1,0535 | 1,3086 | 1,6939 | 2,0369  | 2,1409  | 2,4487  | 2,7385  |
| 33  | 0,6820 | 0,8526 | 1,0530 | 1,3077 | 1,6924 | 2,0345  | 2,1382  | 2,4448  | 2,7333  |
| 34  | 0,6818 | 0,8523 | 1,0525 | 1,3070 | 1,6909 | 2,0322  | 2,1356  | 2,4411  | 2,7284  |
| 35  | 0,6816 | 0,8520 | 1,0520 | 1,3062 | 1,6896 | 2,0301  | 2,1332  | 2,4377  | 2,7238  |
| 36  | 0,6814 | 0,8517 | 1,0516 | 1,3055 | 1,6883 | 2,0281  | 2,1309  | 2,4345  | 2,7195  |
| 37  | 0,6812 | 0,8514 | 1,0512 | 1,3049 | 1,6871 | 2,0262  | 2,1287  | 2,4314  | 2,7154  |
| 38  | 0,6810 | 0,8512 | 1,0508 | 1,3042 | 1,6860 | 2,0244  | 2,1267  | 2,4286  | 2,7116  |
| 39  | 0,6808 | 0,8509 | 1,0504 | 1,3036 | 1,6849 | 2,0227  | 2,1247  | 2,4258  | 2,7079  |
| 40  | 0,6807 | 0,8507 | 1,0500 | 1,3031 | 1,6839 | 2,0211  | 2,1229  | 2,4233  | 2,7045  |
| 45  | 0,6800 | 0,8497 | 1,0485 | 1,3006 | 1,6794 | 2,0141  | 2,1150  | 2,4121  | 2,6896  |
| 50  | 0,6794 | 0,8489 | 1,0473 | 1,2987 | 1,6759 | 2,0086  | 2,1087  | 2,4033  | 2,6778  |
| 55  | 0,6790 | 0,8482 | 1,0463 | 1,2971 | 1,6730 | 2,0040  | 2,1036  | 2,3961  | 2,6682  |
| 60  | 0,6786 | 0,8477 | 1,0455 | 1,2958 | 1,6706 | 2,0003  | 2,0994  | 2,3901  | 2,6603  |
| 65  | 0,6783 | 0,8472 | 1,0448 | 1,2947 | 1,6686 | 1,9971  | 2,0958  | 2,3851  | 2,6536  |
| 70  | 0,6780 | 0,8468 | 1,0442 | 1,2938 | 1,6669 | 1,9944  | 2,0927  | 2,3808  | 2,6479  |
| 80  | 0,6776 | 0,8461 | 1,0432 | 1,2922 | 1,6641 | 1,9901  | 2,0878  | 2,3739  | 2,6387  |
| 100 | 0,6770 | 0,8452 | 1,0418 | 1,2901 | 1,6602 | 1,9840  | 2,0809  | 2,3642  | 2,6259  |

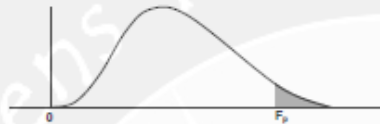
## Lampiran 6

### Sebaran Fisher

Nilai persentil untuk distribusi F

$v_1 = dk$

(Bilangan dalam daftar tabel menyatakan  $F_p$ )



| v2 =        |       | v1 = dk pembilang |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
|-------------|-------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| dk penyebut |       | 1                 | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 14     | 16     | 20     | 24     | 30     | 40     | 50     | 75     | 100    | 200    | 500    | ∞      |  |  |
| 1           | 0.100 | 39.86             | 49.50  | 53.59  | 55.83  | 57.24  | 58.20  | 58.91  | 59.44  | 59.86  | 60.19  | 60.47  | 60.71  | 61.07  | 61.35  | 61.74  | 62.00  | 62.26  | 62.53  | 62.69  | 62.90  | 63.01  | 63.17  | 63.26  | 63.32  |  |  |
|             | 0.050 | 161.4             | 199.5  | 215.7  | 224.6  | 230.2  | 234.0  | 236.8  | 238.9  | 240.5  | 241.9  | 243.0  | 243.9  | 245.4  | 246.5  | 248.0  | 249.1  | 250.1  | 251.1  | 251.8  | 252.6  | 253.0  | 253.7  | 254.1  | 254.3  |  |  |
|             | 0.025 | 647.8             | 799.5  | 864.2  | 899.6  | 921.8  | 937.1  | 948.2  | 956.7  | 963.3  | 968.6  | 973.0  | 976.7  | 982.5  | 986.9  | 993.1  | 997.2  | 1001   | 1006   | 1008   | 1011   | 1013   | 1016   | 1017   | 1018   |  |  |
|             | 0.010 | 4052              | 4999   | 5403   | 5625   | 5764   | 5859   | 5928   | 5981   | 6022   | 6056   | 6083   | 6106   | 6143   | 6170   | 6209   | 6235   | 6261   | 6287   | 6303   | 6324   | 6334   | 6350   | 6360   | 6366   |  |  |
|             | 0.005 | 16211             | 19999  | 21615  | 22500  | 23056  | 23437  | 23715  | 23925  | 24091  | 24224  | 24334  | 24426  | 24572  | 24681  | 24836  | 24940  | 25044  | 25148  | 25211  | 25295  | 25337  | 25401  | 25439  | 25463  |  |  |
| 2           | 0.100 | 8.53              | 9.00   | 9.16   | 9.24   | 9.29   | 9.33   | 9.35   | 9.37   | 9.38   | 9.39   | 9.40   | 9.41   | 9.42   | 9.43   | 9.44   | 9.45   | 9.46   | 9.47   | 9.47   | 9.48   | 9.48   | 9.49   | 9.49   | 9.49   |  |  |
|             | 0.050 | 18.51             | 19.00  | 19.16  | 19.25  | 19.30  | 19.33  | 19.35  | 19.37  | 19.38  | 19.40  | 19.40  | 19.41  | 19.42  | 19.43  | 19.45  | 19.45  | 19.46  | 19.47  | 19.48  | 19.48  | 19.49  | 19.49  | 19.49  | 19.50  |  |  |
|             | 0.025 | 38.51             | 39.00  | 39.17  | 39.25  | 39.30  | 39.33  | 39.36  | 39.37  | 39.39  | 39.40  | 39.41  | 39.41  | 39.43  | 39.44  | 39.45  | 39.46  | 39.46  | 39.47  | 39.48  | 39.48  | 39.49  | 39.49  | 39.50  | 39.50  |  |  |
|             | 0.010 | 98.50             | 99.00  | 99.17  | 99.25  | 99.30  | 99.33  | 99.36  | 99.37  | 99.39  | 99.40  | 99.41  | 99.42  | 99.43  | 99.44  | 99.45  | 99.46  | 99.47  | 99.47  | 99.48  | 99.49  | 99.49  | 99.49  | 99.50  | 99.50  |  |  |
|             | 0.005 | 198.50            | 199.00 | 199.17 | 199.25 | 199.30 | 199.33 | 199.36 | 199.37 | 199.39 | 199.40 | 199.41 | 199.42 | 199.43 | 199.44 | 199.45 | 199.46 | 199.47 | 199.47 | 199.48 | 199.49 | 199.49 | 199.49 | 199.50 | 199.50 |  |  |
| 3           | 0.100 | 5.54              | 5.46   | 5.39   | 5.34   | 5.31   | 5.28   | 5.27   | 5.25   | 5.24   | 5.23   | 5.22   | 5.22   | 5.20   | 5.20   | 5.18   | 5.18   | 5.17   | 5.16   | 5.15   | 5.15   | 5.14   | 5.14   | 5.14   | 5.13   |  |  |
|             | 0.050 | 10.13             | 9.55   | 9.28   | 9.12   | 9.01   | 8.94   | 8.89   | 8.85   | 8.81   | 8.79   | 8.76   | 8.74   | 8.71   | 8.69   | 8.66   | 8.64   | 8.62   | 8.59   | 8.58   | 8.56   | 8.55   | 8.54   | 8.53   | 8.53   |  |  |
|             | 0.025 | 17.44             | 16.04  | 15.44  | 15.10  | 14.88  | 14.73  | 14.62  | 14.54  | 14.47  | 14.42  | 14.37  | 14.34  | 14.28  | 14.23  | 14.17  | 14.12  | 14.08  | 14.04  | 14.01  | 13.97  | 13.96  | 13.93  | 13.91  | 13.90  |  |  |
|             | 0.010 | 34.12             | 30.82  | 29.46  | 28.71  | 28.24  | 27.91  | 27.67  | 27.49  | 27.35  | 27.23  | 27.13  | 27.05  | 26.92  | 26.83  | 26.69  | 26.60  | 26.50  | 26.41  | 26.35  | 26.28  | 26.24  | 26.18  | 26.15  | 26.13  |  |  |
|             | 0.005 | 55.55             | 49.80  | 47.47  | 46.19  | 45.39  | 44.84  | 44.43  | 44.13  | 43.88  | 43.69  | 43.52  | 43.39  | 43.17  | 43.01  | 42.78  | 42.62  | 42.47  | 42.31  | 42.21  | 42.09  | 42.02  | 41.93  | 41.87  | 41.83  |  |  |
| 4           | 0.100 | 4.54              | 4.32   | 4.19   | 4.11   | 4.05   | 4.01   | 3.98   | 3.95   | 3.94   | 3.92   | 3.91   | 3.90   | 3.88   | 3.86   | 3.84   | 3.83   | 3.82   | 3.80   | 3.80   | 3.78   | 3.78   | 3.77   | 3.76   | 3.76   |  |  |
|             | 0.050 | 7.71              | 6.94   | 6.59   | 6.39   | 6.26   | 6.16   | 6.09   | 6.04   | 6.00   | 5.96   | 5.94   | 5.91   | 5.87   | 5.84   | 5.80   | 5.77   | 5.75   | 5.72   | 5.70   | 5.68   | 5.66   | 5.65   | 5.64   | 5.63   |  |  |
|             | 0.025 | 12.22             | 10.65  | 9.98   | 9.60   | 9.36   | 9.20   | 9.07   | 8.98   | 8.90   | 8.84   | 8.79   | 8.75   | 8.68   | 8.63   | 8.56   | 8.51   | 8.46   | 8.41   | 8.38   | 8.34   | 8.32   | 8.29   | 8.27   | 8.26   |  |  |
|             | 0.010 | 21.20             | 18.00  | 16.69  | 15.98  | 15.52  | 15.21  | 14.98  | 14.80  | 14.66  | 14.55  | 14.45  | 14.37  | 14.25  | 14.15  | 14.02  | 13.93  | 13.84  | 13.75  | 13.69  | 13.61  | 13.58  | 13.52  | 13.49  | 13.46  |  |  |
|             | 0.005 | 31.33             | 26.28  | 24.26  | 23.15  | 22.46  | 21.97  | 21.62  | 21.35  | 21.14  | 20.97  | 20.82  | 20.70  | 20.51  | 20.37  | 20.17  | 20.03  | 19.89  | 19.75  | 19.67  | 19.55  | 19.50  | 19.41  | 19.36  | 19.33  |  |  |
| 5           | 0.100 | 4.06              | 3.78   | 3.62   | 3.52   | 3.45   | 3.40   | 3.37   | 3.34   | 3.32   | 3.30   | 3.28   | 3.27   | 3.25   | 3.23   | 3.21   | 3.19   | 3.17   | 3.16   | 3.15   | 3.13   | 3.13   | 3.12   | 3.11   | 3.11   |  |  |
|             | 0.050 | 6.61              | 5.79   | 5.41   | 5.19   | 5.05   | 4.95   | 4.88   | 4.82   | 4.77   | 4.74   | 4.70   | 4.68   | 4.64   | 4.60   | 4.56   | 4.53   | 4.50   | 4.46   | 4.44   | 4.42   | 4.41   | 4.39   | 4.37   | 4.37   |  |  |
|             | 0.025 | 10.01             | 8.43   | 7.76   | 7.39   | 7.15   | 6.98   | 6.85   | 6.76   | 6.68   | 6.62   | 6.57   | 6.52   | 6.46   | 6.40   | 6.33   | 6.28   | 6.23   | 6.18   | 6.14   | 6.10   | 6.08   | 6.05   | 6.03   | 6.02   |  |  |
|             | 0.010 | 16.26             | 13.27  | 12.06  | 11.39  | 10.97  | 10.67  | 10.46  | 10.29  | 10.16  | 10.05  | 9.96   | 9.89   | 9.77   | 9.68   | 9.55   | 9.47   | 9.38   | 9.29   | 9.24   | 9.17   | 9.13   | 9.08   | 9.04   | 9.02   |  |  |
|             | 0.005 | 22.78             | 18.31  | 16.53  | 15.56  | 14.94  | 14.51  | 14.20  | 13.96  | 13.77  | 13.62  | 13.49  | 13.38  | 13.21  | 13.09  | 12.90  | 12.78  | 12.66  | 12.53  | 12.45  | 12.35  | 12.30  | 12.22  | 12.17  | 12.15  |  |  |
| 6           | 0.100 | 3.78              | 3.46   | 3.29   | 3.18   | 3.11   | 3.05   | 3.01   | 2.98   | 2.96   | 2.94   | 2.92   | 2.90   | 2.88   | 2.86   | 2.84   | 2.82   | 2.80   | 2.78   | 2.77   | 2.75   | 2.75   | 2.73   | 2.73   | 2.72   |  |  |
|             | 0.050 | 5.99              | 5.14   | 4.76   | 4.53   | 4.39   | 4.28   | 4.21   | 4.15   | 4.10   | 4.06   | 4.03   | 4.00   | 3.96   | 3.92   | 3.87   | 3.84   | 3.81   | 3.77   | 3.75   | 3.73   | 3.71   | 3.69   | 3.68   | 3.67   |  |  |
|             | 0.025 | 8.81              | 7.26   | 6.60   | 6.23   | 5.99   | 5.82   | 5.70   | 5.60   | 5.52   | 5.46   | 5.41   | 5.37   | 5.30   | 5.24   | 5.17   | 5.12   | 5.07   | 5.01   | 4.98   | 4.94   | 4.92   | 4.88   | 4.86   | 4.85   |  |  |
|             | 0.010 | 13.75             | 10.92  | 9.78   | 9.15   | 8.75   | 8.47   | 8.26   | 8.10   | 7.98   | 7.87   | 7.79   | 7.72   | 7.60   | 7.52   | 7.40   | 7.31   | 7.23   | 7.14   | 7.09   | 7.02   | 6.99   | 6.93   | 6.90   | 6.88   |  |  |
|             | 0.005 | 18.63             | 14.54  | 12.92  | 12.03  | 11.46  | 11.07  | 10.79  | 10.57  | 10.39  | 10.25  | 10.13  | 10.03  | 9.88   | 9.76   | 9.59   | 9.47   | 9.36   | 9.24   | 9.17   | 9.07   | 9.03   | 8.95   | 8.91   | 8.88   |  |  |
| 7           | 0.100 | 3.59              | 3.26   | 3.07   | 2.96   | 2.88   | 2.83   | 2.78   | 2.75   | 2.72   | 2.70   | 2.68   | 2.67   | 2.64   | 2.62   | 2.59   | 2.58   | 2.56   | 2.54   | 2.52   | 2.51   | 2.50   | 2.48   | 2.48   | 2.47   |  |  |
|             | 0.050 | 5.59              | 4.74   | 4.35   | 4.12   | 3.97   | 3.87   | 3.79   | 3.73   | 3.68   | 3.64   | 3.60   | 3.57   | 3.53   | 3.49   | 3.44   | 3.41   | 3.38   | 3.34   | 3.32   | 3.29   | 3.27   | 3.25   | 3.24   | 3.23   |  |  |
|             | 0.025 | 8.07              | 6.54   | 5.89   | 5.52   | 5.29   | 5.12   | 4.99   | 4.90   | 4.82   | 4.76   | 4.71   | 4.67   | 4.60   | 4.54   | 4.47   | 4.41   | 4.36   | 4.31   | 4.28   | 4.23   | 4.21   | 4.18   | 4.16   | 4.14   |  |  |
|             | 0.010 | 12.25             | 9.55   | 8.45   | 7.85   | 7.46   | 7.19   | 6.99   | 6.84   | 6.72   | 6.62   | 6.54   | 6.47   | 6.36   | 6.28   | 6.16   | 6.07   | 5.99   | 5.91   | 5.86   | 5.79   | 5.75   | 5.70   | 5.67   | 5.65   |  |  |
|             | 0.005 | 16.24             | 12.40  | 10.88  | 10.05  | 9.52   | 9.16   | 8.89   | 8.68   | 8.51   | 8.38   | 8.27   | 8.18   | 8.03   | 7.91   | 7.75   | 7.64   | 7.53   | 7.42   | 7.35   | 7.26   | 7.22   | 7.15   | 7.10   | 7.08   |  |  |
| 8           | 0.100 | 3.46              | 3.11   | 2.92   | 2.81   | 2.73   | 2.67   | 2.62   | 2.59   | 2.56   | 2.54   | 2.52   | 2.50   | 2.48   | 2.45   | 2.42   | 2.40   | 2.38   | 2.36   | 2.35   | 2.33   | 2.32   | 2.31   | 2.30   | 2.29   |  |  |
|             | 0.050 | 5.32              | 4.46   | 4.07   | 3.84   | 3.69   | 3.58   | 3.50   | 3.44   | 3.39   | 3.35   | 3.31   | 3.28   | 3.24   | 3.20   | 3.15   | 3.12   | 3.08   | 3.04   | 3.02   | 2.99   | 2.97   | 2.95   | 2.94   | 2.93   |  |  |
|             | 0.025 | 7.57              | 6.06   | 5.42   | 5.05   | 4.82   | 4.65   | 4.53   | 4.43   | 4.36   | 4.30   | 4.24   | 4.20   | 4.13   | 4.08   | 4.00   | 3.95   | 3.89   | 3.84   | 3.81   | 3.76   | 3.74   | 3.70   | 3.68   | 3.67   |  |  |
|             | 0.010 | 11.26             | 8.65   | 7.59   | 7.01   | 6.63   | 6.37   | 6.18   | 6.03   | 5.91   | 5.81   | 5.73   | 5.67   | 5.56   | 5.48   | 5.36   | 5.28   | 5.20   | 5.12   | 5.07   | 5.00   | 4.96   | 4.91   | 4.88   | 4.86   |  |  |
|             | 0.005 | 14.69             | 11.04  | 9.60   | 8.81   | 8.30   | 7.95   | 7.69   | 7.50   | 7.34   | 7.21   | 7.10   | 7.01   | 6.87   | 6.76   | 6.61   | 6.50   | 6.40   | 6.29   | 6.22   | 6.13   | 6.09   | 6.02   | 5.98   | 5.95   |  |  |

# Lanjutan Lampiran 6

| v2 =        |       | v1 = dk pembilang |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|-------------|-------|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| dk penyebut |       | 1                 | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 14   | 16   | 20   | 24   | 30   | 40   | 50   | 75   | 100  | 200  | 500  | ∞    |  |  |
| 9           | 0.100 | 3.36              | 3.01  | 2.81 | 2.69 | 2.61 | 2.55 | 2.51 | 2.47 | 2.44 | 2.42 | 2.40 | 2.38 | 2.35 | 2.33 | 2.30 | 2.28 | 2.25 | 2.23 | 2.22 | 2.20 | 2.19 | 2.17 | 2.17 | 2.16 |  |  |
|             | 0.050 | 5.12              | 4.26  | 3.86 | 3.63 | 3.48 | 3.37 | 3.29 | 3.23 | 3.18 | 3.14 | 3.10 | 3.07 | 3.03 | 2.99 | 2.94 | 2.90 | 2.86 | 2.83 | 2.80 | 2.77 | 2.76 | 2.73 | 2.72 | 2.71 |  |  |
|             | 0.025 | 7.21              | 5.71  | 5.08 | 4.72 | 4.48 | 4.32 | 4.20 | 4.10 | 4.03 | 3.96 | 3.91 | 3.87 | 3.80 | 3.74 | 3.67 | 3.61 | 3.56 | 3.51 | 3.47 | 3.43 | 3.40 | 3.37 | 3.35 | 3.33 |  |  |
|             | 0.010 | 10.56             | 8.02  | 6.99 | 6.42 | 6.06 | 5.80 | 5.61 | 5.47 | 5.35 | 5.26 | 5.18 | 5.11 | 5.01 | 4.92 | 4.81 | 4.73 | 4.65 | 4.57 | 4.52 | 4.45 | 4.41 | 4.36 | 4.33 | 4.31 |  |  |
|             | 0.005 | 13.61             | 10.11 | 8.72 | 7.96 | 7.47 | 7.13 | 6.88 | 6.69 | 6.54 | 6.42 | 6.31 | 6.23 | 6.09 | 5.98 | 5.83 | 5.73 | 5.62 | 5.52 | 5.45 | 5.37 | 5.32 | 5.26 | 5.21 | 5.19 |  |  |
| 10          | 0.100 | 3.29              | 2.92  | 2.73 | 2.61 | 2.52 | 2.46 | 2.41 | 2.38 | 2.35 | 2.32 | 2.30 | 2.28 | 2.26 | 2.23 | 2.20 | 2.18 | 2.16 | 2.13 | 2.12 | 2.10 | 2.09 | 2.07 | 2.06 | 2.06 |  |  |
|             | 0.050 | 4.96              | 4.10  | 3.71 | 3.48 | 3.33 | 3.22 | 3.14 | 3.07 | 3.02 | 2.98 | 2.94 | 2.91 | 2.86 | 2.83 | 2.77 | 2.74 | 2.70 | 2.66 | 2.64 | 2.60 | 2.59 | 2.56 | 2.55 | 2.54 |  |  |
|             | 0.025 | 6.94              | 5.46  | 4.83 | 4.47 | 4.24 | 4.07 | 3.95 | 3.85 | 3.78 | 3.72 | 3.66 | 3.62 | 3.55 | 3.50 | 3.42 | 3.37 | 3.31 | 3.26 | 3.22 | 3.18 | 3.15 | 3.12 | 3.09 | 3.08 |  |  |
|             | 0.010 | 10.04             | 7.56  | 6.55 | 5.99 | 5.64 | 5.39 | 5.20 | 5.06 | 4.94 | 4.85 | 4.77 | 4.71 | 4.60 | 4.52 | 4.41 | 4.33 | 4.25 | 4.17 | 4.12 | 4.05 | 4.01 | 3.96 | 3.93 | 3.91 |  |  |
|             | 0.005 | 12.83             | 9.43  | 8.08 | 7.34 | 6.87 | 6.54 | 6.30 | 6.12 | 5.97 | 5.85 | 5.75 | 5.66 | 5.53 | 5.42 | 5.27 | 5.17 | 5.07 | 4.97 | 4.90 | 4.82 | 4.77 | 4.71 | 4.67 | 4.64 |  |  |
| 11          | 0.100 | 3.23              | 2.86  | 2.66 | 2.54 | 2.45 | 2.39 | 2.34 | 2.30 | 2.27 | 2.25 | 2.23 | 2.21 | 2.18 | 2.16 | 2.12 | 2.10 | 2.08 | 2.05 | 2.04 | 2.02 | 2.01 | 1.99 | 1.98 | 1.97 |  |  |
|             | 0.050 | 4.84              | 3.98  | 3.59 | 3.36 | 3.20 | 3.09 | 3.01 | 2.95 | 2.90 | 2.85 | 2.82 | 2.79 | 2.74 | 2.70 | 2.65 | 2.61 | 2.57 | 2.53 | 2.51 | 2.47 | 2.46 | 2.43 | 2.42 | 2.41 |  |  |
|             | 0.025 | 6.72              | 5.26  | 4.63 | 4.28 | 4.04 | 3.88 | 3.76 | 3.66 | 3.59 | 3.53 | 3.47 | 3.43 | 3.36 | 3.30 | 3.23 | 3.17 | 3.12 | 3.06 | 3.03 | 2.98 | 2.96 | 2.92 | 2.90 | 2.88 |  |  |
|             | 0.010 | 9.65              | 7.21  | 6.22 | 5.67 | 5.32 | 5.07 | 4.89 | 4.74 | 4.63 | 4.54 | 4.46 | 4.40 | 4.29 | 4.21 | 4.10 | 4.02 | 3.94 | 3.86 | 3.81 | 3.74 | 3.71 | 3.66 | 3.62 | 3.60 |  |  |
|             | 0.005 | 12.23             | 8.91  | 7.60 | 6.88 | 6.42 | 6.10 | 5.86 | 5.68 | 5.54 | 5.42 | 5.32 | 5.24 | 5.10 | 5.00 | 4.86 | 4.76 | 4.65 | 4.55 | 4.49 | 4.40 | 4.36 | 4.29 | 4.25 | 4.23 |  |  |
| 12          | 0.100 | 3.18              | 2.81  | 2.61 | 2.48 | 2.39 | 2.33 | 2.28 | 2.24 | 2.21 | 2.19 | 2.17 | 2.15 | 2.12 | 2.09 | 2.06 | 2.04 | 2.01 | 1.99 | 1.97 | 1.95 | 1.94 | 1.92 | 1.91 | 1.90 |  |  |
|             | 0.050 | 4.75              | 3.89  | 3.49 | 3.26 | 3.11 | 3.00 | 2.91 | 2.85 | 2.80 | 2.75 | 2.72 | 2.69 | 2.64 | 2.60 | 2.54 | 2.51 | 2.47 | 2.43 | 2.40 | 2.37 | 2.35 | 2.32 | 2.31 | 2.30 |  |  |
|             | 0.025 | 6.55              | 5.10  | 4.47 | 4.12 | 3.89 | 3.73 | 3.61 | 3.51 | 3.44 | 3.37 | 3.32 | 3.28 | 3.21 | 3.15 | 3.07 | 3.02 | 2.96 | 2.91 | 2.87 | 2.82 | 2.80 | 2.76 | 2.74 | 2.73 |  |  |
|             | 0.010 | 9.33              | 6.93  | 5.95 | 5.41 | 5.06 | 4.82 | 4.64 | 4.50 | 4.39 | 4.30 | 4.22 | 4.16 | 4.05 | 3.97 | 3.86 | 3.78 | 3.70 | 3.62 | 3.57 | 3.50 | 3.47 | 3.41 | 3.38 | 3.36 |  |  |
|             | 0.005 | 11.75             | 8.51  | 7.23 | 6.52 | 6.07 | 5.76 | 5.52 | 5.35 | 5.20 | 5.09 | 4.99 | 4.91 | 4.77 | 4.67 | 4.53 | 4.43 | 4.33 | 4.23 | 4.17 | 4.08 | 4.04 | 3.97 | 3.93 | 3.91 |  |  |
| 13          | 0.100 | 3.14              | 2.76  | 2.56 | 2.43 | 2.35 | 2.28 | 2.23 | 2.20 | 2.16 | 2.14 | 2.12 | 2.10 | 2.07 | 2.04 | 2.01 | 1.98 | 1.96 | 1.93 | 1.92 | 1.89 | 1.88 | 1.86 | 1.85 | 1.85 |  |  |
|             | 0.050 | 4.67              | 3.81  | 3.41 | 3.18 | 3.03 | 2.92 | 2.83 | 2.77 | 2.71 | 2.67 | 2.63 | 2.60 | 2.55 | 2.51 | 2.46 | 2.42 | 2.38 | 2.34 | 2.31 | 2.28 | 2.26 | 2.23 | 2.22 | 2.21 |  |  |
|             | 0.025 | 6.41              | 4.97  | 4.35 | 4.00 | 3.77 | 3.60 | 3.48 | 3.39 | 3.31 | 3.25 | 3.20 | 3.15 | 3.08 | 3.03 | 2.95 | 2.89 | 2.84 | 2.78 | 2.74 | 2.70 | 2.67 | 2.63 | 2.61 | 2.60 |  |  |
|             | 0.010 | 9.07              | 6.70  | 5.74 | 5.21 | 4.86 | 4.62 | 4.44 | 4.30 | 4.19 | 4.10 | 4.02 | 3.96 | 3.86 | 3.78 | 3.66 | 3.59 | 3.51 | 3.43 | 3.38 | 3.31 | 3.27 | 3.22 | 3.19 | 3.17 |  |  |
|             | 0.005 | 11.37             | 8.19  | 6.93 | 6.23 | 5.79 | 5.48 | 5.25 | 5.08 | 4.94 | 4.82 | 4.72 | 4.64 | 4.51 | 4.41 | 4.27 | 4.17 | 4.07 | 3.97 | 3.91 | 3.82 | 3.78 | 3.71 | 3.67 | 3.65 |  |  |
| 14          | 0.100 | 3.10              | 2.73  | 2.52 | 2.39 | 2.31 | 2.24 | 2.19 | 2.15 | 2.12 | 2.10 | 2.07 | 2.05 | 2.02 | 2.00 | 1.96 | 1.94 | 1.91 | 1.89 | 1.87 | 1.85 | 1.83 | 1.82 | 1.80 | 1.80 |  |  |
|             | 0.050 | 4.60              | 3.74  | 3.34 | 3.11 | 2.96 | 2.85 | 2.76 | 2.70 | 2.65 | 2.60 | 2.57 | 2.53 | 2.48 | 2.44 | 2.39 | 2.35 | 2.31 | 2.27 | 2.24 | 2.21 | 2.19 | 2.16 | 2.14 | 2.13 |  |  |
|             | 0.025 | 6.30              | 4.86  | 4.24 | 3.89 | 3.66 | 3.50 | 3.38 | 3.29 | 3.21 | 3.15 | 3.09 | 3.05 | 2.98 | 2.92 | 2.84 | 2.79 | 2.73 | 2.67 | 2.64 | 2.59 | 2.56 | 2.53 | 2.50 | 2.49 |  |  |
|             | 0.010 | 8.86              | 6.51  | 5.56 | 5.04 | 4.69 | 4.46 | 4.28 | 4.14 | 4.03 | 3.94 | 3.86 | 3.80 | 3.70 | 3.62 | 3.51 | 3.43 | 3.35 | 3.27 | 3.22 | 3.15 | 3.11 | 3.06 | 3.03 | 3.01 |  |  |
|             | 0.005 | 11.06             | 7.92  | 6.68 | 6.00 | 5.56 | 5.26 | 5.03 | 4.86 | 4.72 | 4.60 | 4.51 | 4.43 | 4.30 | 4.20 | 4.06 | 3.96 | 3.86 | 3.76 | 3.70 | 3.61 | 3.57 | 3.50 | 3.46 | 3.44 |  |  |
| 15          | 0.100 | 3.07              | 2.70  | 2.49 | 2.36 | 2.27 | 2.21 | 2.16 | 2.12 | 2.09 | 2.06 | 2.04 | 2.02 | 1.99 | 1.96 | 1.92 | 1.90 | 1.87 | 1.85 | 1.83 | 1.80 | 1.79 | 1.77 | 1.76 | 1.76 |  |  |
|             | 0.050 | 4.54              | 3.68  | 3.29 | 3.06 | 2.90 | 2.79 | 2.71 | 2.64 | 2.59 | 2.54 | 2.51 | 2.48 | 2.42 | 2.38 | 2.33 | 2.29 | 2.25 | 2.20 | 2.18 | 2.14 | 2.12 | 2.10 | 2.08 | 2.07 |  |  |
|             | 0.025 | 6.20              | 4.77  | 4.15 | 3.80 | 3.58 | 3.41 | 3.29 | 3.20 | 3.12 | 3.06 | 3.01 | 2.96 | 2.89 | 2.84 | 2.76 | 2.70 | 2.64 | 2.59 | 2.55 | 2.50 | 2.47 | 2.44 | 2.41 | 2.40 |  |  |
|             | 0.010 | 8.68              | 6.36  | 5.42 | 4.89 | 4.56 | 4.32 | 4.14 | 4.00 | 3.89 | 3.80 | 3.73 | 3.67 | 3.56 | 3.49 | 3.37 | 3.29 | 3.21 | 3.13 | 3.08 | 3.01 | 2.98 | 2.92 | 2.89 | 2.87 |  |  |
|             | 0.005 | 10.80             | 7.70  | 6.48 | 5.80 | 5.37 | 5.07 | 4.85 | 4.67 | 4.54 | 4.42 | 4.33 | 4.25 | 4.12 | 4.02 | 3.88 | 3.79 | 3.69 | 3.58 | 3.52 | 3.44 | 3.39 | 3.33 | 3.29 | 3.26 |  |  |
| 16          | 0.100 | 3.05              | 2.67  | 2.46 | 2.33 | 2.24 | 2.18 | 2.13 | 2.09 | 2.06 | 2.03 | 2.01 | 1.99 | 1.95 | 1.93 | 1.89 | 1.87 | 1.84 | 1.81 | 1.79 | 1.77 | 1.76 | 1.74 | 1.73 | 1.72 |  |  |
|             | 0.050 | 4.49              | 3.63  | 3.24 | 3.01 | 2.85 | 2.74 | 2.66 | 2.59 | 2.54 | 2.49 | 2.46 | 2.42 | 2.37 | 2.33 | 2.28 | 2.24 | 2.19 | 2.15 | 2.12 | 2.09 | 2.07 | 2.04 | 2.02 | 2.01 |  |  |
|             | 0.025 | 6.12              | 4.69  | 4.08 | 3.73 | 3.50 | 3.34 | 3.22 | 3.12 | 3.05 | 2.99 | 2.93 | 2.89 | 2.82 | 2.76 | 2.68 | 2.63 | 2.57 | 2.51 | 2.47 | 2.42 | 2.40 | 2.36 | 2.33 | 2.32 |  |  |
|             | 0.010 | 8.53              | 6.23  | 5.29 | 4.77 | 4.44 | 4.20 | 4.03 | 3.89 | 3.78 | 3.69 | 3.62 | 3.55 | 3.45 | 3.37 | 3.26 | 3.18 | 3.10 | 3.02 | 2.97 | 2.90 | 2.86 | 2.81 | 2.78 | 2.75 |  |  |
|             | 0.005 | 10.58             | 7.51  | 6.30 | 5.64 | 5.21 | 4.91 | 4.69 | 4.52 | 4.38 | 4.27 | 4.18 | 4.10 | 3.97 | 3.87 | 3.73 | 3.64 | 3.54 | 3.44 | 3.37 | 3.29 | 3.25 | 3.18 | 3.14 | 3.11 |  |  |
| 17          | 0.100 | 3.03              | 2.64  | 2.44 | 2.31 | 2.22 | 2.15 | 2.10 | 2.06 | 2.03 | 2.00 | 1.98 | 1.96 | 1.93 | 1.90 | 1.86 | 1.84 | 1.81 | 1.78 | 1.76 | 1.74 | 1.73 | 1.71 | 1.69 | 1.69 |  |  |
|             | 0.050 | 4.45              | 3.59  | 3.20 | 2.96 | 2.81 | 2.70 | 2.61 | 2.55 | 2.49 | 2.45 | 2.41 | 2.38 | 2.33 | 2.29 | 2.23 | 2.19 | 2.15 | 2.10 | 2.08 | 2.04 | 2.02 | 1.99 | 1.97 | 1.96 |  |  |
|             | 0.025 | 6.04              | 4.62  | 4.01 | 3.66 | 3.44 | 3.28 | 3.16 | 3.06 | 2.98 | 2.92 | 2.87 | 2.82 | 2.75 | 2.70 | 2.62 | 2.56 | 2.50 | 2.44 | 2.41 | 2.35 | 2.33 | 2.29 | 2.26 | 2.25 |  |  |
|             | 0.010 | 8.40              | 6.11  | 5.18 | 4.67 | 4.34 | 4.10 | 3.93 | 3.79 | 3.68 | 3.59 | 3.52 | 3.46 | 3.35 | 3.27 | 3.16 | 3.08 | 3.00 | 2.92 | 2.87 | 2.80 | 2.76 | 2.71 | 2.68 | 2.65 |  |  |
|             | 0.005 | 10.38             | 7.35  | 6.16 | 5.50 | 5.07 | 4.78 | 4.56 | 4.39 | 4.25 | 4.14 | 4.05 | 3.97 | 3.84 | 3.75 | 3.61 | 3.51 | 3.41 | 3.31 | 3.25 | 3.16 | 3.12 | 3.05 | 3.01 | 2.99 |  |  |

# Lanjutan Lampiran 6

| v2 -<br>dk penyebut |       | v1 - dk pembilang |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
|---------------------|-------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
|                     |       | 1                 | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 14   | 16   | 20   | 24   | 30   | 40   | 50   | 75   | 100  | 200  | 500  | ∞    |  |  |  |  |
| 18                  | 0.100 | 3.01              | 2.62 | 2.42 | 2.29 | 2.20 | 2.13 | 2.08 | 2.04 | 2.00 | 1.98 | 1.95 | 1.93 | 1.90 | 1.87 | 1.84 | 1.81 | 1.78 | 1.75 | 1.74 | 1.71 | 1.70 | 1.68 | 1.67 | 1.66 |  |  |  |  |
|                     | 0.050 | 4.41              | 3.55 | 3.16 | 2.93 | 2.77 | 2.66 | 2.58 | 2.51 | 2.46 | 2.41 | 2.37 | 2.34 | 2.29 | 2.25 | 2.19 | 2.15 | 2.11 | 2.06 | 2.04 | 2.00 | 1.98 | 1.95 | 1.93 | 1.92 |  |  |  |  |
|                     | 0.025 | 5.98              | 4.56 | 3.95 | 3.61 | 3.38 | 3.22 | 3.10 | 3.01 | 2.93 | 2.87 | 2.81 | 2.77 | 2.70 | 2.64 | 2.56 | 2.50 | 2.44 | 2.38 | 2.35 | 2.30 | 2.27 | 2.23 | 2.20 | 2.19 |  |  |  |  |
|                     | 0.010 | 8.29              | 6.01 | 5.09 | 4.58 | 4.25 | 4.01 | 3.84 | 3.71 | 3.60 | 3.51 | 3.43 | 3.37 | 3.27 | 3.19 | 3.08 | 3.00 | 2.92 | 2.84 | 2.78 | 2.71 | 2.68 | 2.62 | 2.59 | 2.57 |  |  |  |  |
|                     | 0.005 | 10.22             | 7.21 | 6.03 | 5.37 | 4.96 | 4.66 | 4.44 | 4.28 | 4.14 | 4.03 | 3.94 | 3.86 | 3.73 | 3.64 | 3.50 | 3.40 | 3.30 | 3.20 | 3.14 | 3.05 | 3.01 | 2.94 | 2.90 | 2.87 |  |  |  |  |
| 19                  | 0.100 | 2.99              | 2.61 | 2.40 | 2.27 | 2.18 | 2.11 | 2.06 | 2.02 | 1.98 | 1.96 | 1.93 | 1.91 | 1.88 | 1.85 | 1.81 | 1.79 | 1.76 | 1.73 | 1.71 | 1.69 | 1.67 | 1.65 | 1.64 | 1.63 |  |  |  |  |
|                     | 0.050 | 4.38              | 3.52 | 3.13 | 2.90 | 2.74 | 2.63 | 2.54 | 2.48 | 2.42 | 2.38 | 2.34 | 2.31 | 2.26 | 2.21 | 2.16 | 2.11 | 2.07 | 2.03 | 2.00 | 1.96 | 1.94 | 1.91 | 1.89 | 1.88 |  |  |  |  |
|                     | 0.025 | 5.92              | 4.51 | 3.90 | 3.56 | 3.33 | 3.17 | 3.05 | 2.96 | 2.88 | 2.82 | 2.76 | 2.72 | 2.65 | 2.59 | 2.51 | 2.45 | 2.39 | 2.33 | 2.30 | 2.24 | 2.22 | 2.18 | 2.15 | 2.13 |  |  |  |  |
|                     | 0.010 | 8.18              | 5.93 | 5.01 | 4.50 | 4.17 | 3.94 | 3.77 | 3.63 | 3.52 | 3.43 | 3.36 | 3.30 | 3.19 | 3.12 | 3.00 | 2.92 | 2.84 | 2.76 | 2.71 | 2.64 | 2.60 | 2.55 | 2.51 | 2.49 |  |  |  |  |
|                     | 0.005 | 10.07             | 7.09 | 5.92 | 5.27 | 4.85 | 4.56 | 4.34 | 4.18 | 4.04 | 3.93 | 3.84 | 3.76 | 3.64 | 3.54 | 3.40 | 3.31 | 3.21 | 3.11 | 3.04 | 2.96 | 2.91 | 2.85 | 2.80 | 2.78 |  |  |  |  |
| 20                  | 0.100 | 2.97              | 2.59 | 2.38 | 2.25 | 2.16 | 2.09 | 2.04 | 2.00 | 1.96 | 1.94 | 1.91 | 1.89 | 1.86 | 1.83 | 1.79 | 1.77 | 1.74 | 1.71 | 1.69 | 1.66 | 1.65 | 1.63 | 1.62 | 1.61 |  |  |  |  |
|                     | 0.050 | 4.35              | 3.49 | 3.10 | 2.87 | 2.71 | 2.60 | 2.51 | 2.45 | 2.39 | 2.35 | 2.31 | 2.28 | 2.22 | 2.18 | 2.12 | 2.08 | 2.04 | 1.99 | 1.97 | 1.93 | 1.91 | 1.88 | 1.86 | 1.84 |  |  |  |  |
|                     | 0.025 | 5.87              | 4.46 | 3.86 | 3.51 | 3.29 | 3.13 | 3.01 | 2.91 | 2.84 | 2.77 | 2.72 | 2.68 | 2.60 | 2.55 | 2.46 | 2.41 | 2.35 | 2.29 | 2.25 | 2.20 | 2.17 | 2.13 | 2.10 | 2.09 |  |  |  |  |
|                     | 0.010 | 8.10              | 5.85 | 4.94 | 4.43 | 4.10 | 3.87 | 3.70 | 3.56 | 3.46 | 3.37 | 3.29 | 3.23 | 3.13 | 3.05 | 2.94 | 2.86 | 2.78 | 2.69 | 2.64 | 2.57 | 2.54 | 2.48 | 2.44 | 2.42 |  |  |  |  |
|                     | 0.005 | 9.94              | 6.99 | 5.82 | 5.17 | 4.76 | 4.47 | 4.26 | 4.09 | 3.96 | 3.85 | 3.76 | 3.68 | 3.55 | 3.46 | 3.32 | 3.22 | 3.12 | 3.02 | 2.96 | 2.87 | 2.83 | 2.76 | 2.72 | 2.69 |  |  |  |  |
| 21                  | 0.100 | 2.96              | 2.57 | 2.36 | 2.23 | 2.14 | 2.08 | 2.02 | 1.98 | 1.95 | 1.92 | 1.90 | 1.87 | 1.84 | 1.81 | 1.78 | 1.75 | 1.72 | 1.69 | 1.67 | 1.64 | 1.63 | 1.61 | 1.60 | 1.59 |  |  |  |  |
|                     | 0.050 | 4.32              | 3.47 | 3.07 | 2.84 | 2.68 | 2.57 | 2.49 | 2.42 | 2.37 | 2.32 | 2.28 | 2.25 | 2.20 | 2.16 | 2.10 | 2.05 | 2.01 | 1.96 | 1.94 | 1.90 | 1.88 | 1.84 | 1.83 | 1.81 |  |  |  |  |
|                     | 0.025 | 5.83              | 4.42 | 3.82 | 3.48 | 3.25 | 3.09 | 2.97 | 2.87 | 2.80 | 2.73 | 2.68 | 2.64 | 2.56 | 2.51 | 2.42 | 2.37 | 2.31 | 2.25 | 2.21 | 2.16 | 2.13 | 2.09 | 2.06 | 2.04 |  |  |  |  |
|                     | 0.010 | 8.02              | 5.78 | 4.87 | 4.37 | 4.04 | 3.81 | 3.64 | 3.51 | 3.40 | 3.31 | 3.24 | 3.17 | 3.07 | 2.99 | 2.88 | 2.80 | 2.72 | 2.64 | 2.58 | 2.51 | 2.48 | 2.42 | 2.38 | 2.36 |  |  |  |  |
|                     | 0.005 | 9.83              | 6.89 | 5.73 | 5.09 | 4.68 | 4.39 | 4.18 | 4.01 | 3.88 | 3.77 | 3.68 | 3.60 | 3.48 | 3.38 | 3.24 | 3.15 | 3.05 | 2.95 | 2.88 | 2.80 | 2.75 | 2.68 | 2.64 | 2.62 |  |  |  |  |
| 22                  | 0.100 | 2.95              | 2.56 | 2.35 | 2.22 | 2.13 | 2.06 | 2.01 | 1.97 | 1.93 | 1.90 | 1.88 | 1.86 | 1.83 | 1.80 | 1.76 | 1.73 | 1.70 | 1.67 | 1.65 | 1.63 | 1.61 | 1.59 | 1.58 | 1.57 |  |  |  |  |
|                     | 0.050 | 4.30              | 3.44 | 3.05 | 2.82 | 2.66 | 2.55 | 2.46 | 2.40 | 2.34 | 2.30 | 2.26 | 2.23 | 2.17 | 2.13 | 2.07 | 2.03 | 1.98 | 1.94 | 1.91 | 1.87 | 1.85 | 1.82 | 1.80 | 1.78 |  |  |  |  |
|                     | 0.025 | 5.79              | 4.38 | 3.78 | 3.44 | 3.22 | 3.05 | 2.93 | 2.84 | 2.76 | 2.70 | 2.65 | 2.60 | 2.53 | 2.47 | 2.39 | 2.33 | 2.27 | 2.21 | 2.17 | 2.12 | 2.09 | 2.05 | 2.02 | 2.00 |  |  |  |  |
|                     | 0.010 | 7.95              | 5.72 | 4.82 | 4.31 | 3.99 | 3.76 | 3.59 | 3.45 | 3.35 | 3.26 | 3.18 | 3.12 | 3.02 | 2.94 | 2.83 | 2.75 | 2.67 | 2.58 | 2.53 | 2.46 | 2.42 | 2.36 | 2.33 | 2.31 |  |  |  |  |
|                     | 0.005 | 9.73              | 6.81 | 5.65 | 5.02 | 4.61 | 4.32 | 4.11 | 3.94 | 3.81 | 3.70 | 3.61 | 3.54 | 3.41 | 3.31 | 3.18 | 3.08 | 2.98 | 2.88 | 2.82 | 2.73 | 2.69 | 2.62 | 2.57 | 2.55 |  |  |  |  |
| 23                  | 0.100 | 2.94              | 2.55 | 2.34 | 2.21 | 2.11 | 2.05 | 1.99 | 1.95 | 1.92 | 1.89 | 1.87 | 1.84 | 1.81 | 1.78 | 1.74 | 1.72 | 1.69 | 1.66 | 1.64 | 1.61 | 1.59 | 1.57 | 1.56 | 1.55 |  |  |  |  |
|                     | 0.050 | 4.28              | 3.42 | 3.03 | 2.80 | 2.64 | 2.53 | 2.44 | 2.37 | 2.32 | 2.27 | 2.24 | 2.20 | 2.15 | 2.11 | 2.05 | 2.01 | 1.96 | 1.91 | 1.88 | 1.84 | 1.82 | 1.79 | 1.77 | 1.76 |  |  |  |  |
|                     | 0.025 | 5.75              | 4.35 | 3.75 | 3.41 | 3.18 | 3.02 | 2.90 | 2.81 | 2.73 | 2.67 | 2.62 | 2.57 | 2.50 | 2.44 | 2.36 | 2.30 | 2.24 | 2.18 | 2.14 | 2.08 | 2.06 | 2.01 | 1.99 | 1.97 |  |  |  |  |
|                     | 0.010 | 7.88              | 5.66 | 4.76 | 4.26 | 3.94 | 3.71 | 3.54 | 3.41 | 3.30 | 3.21 | 3.14 | 3.07 | 2.97 | 2.89 | 2.78 | 2.70 | 2.62 | 2.54 | 2.48 | 2.41 | 2.37 | 2.32 | 2.28 | 2.26 |  |  |  |  |
|                     | 0.005 | 9.63              | 6.73 | 5.58 | 4.95 | 4.54 | 4.26 | 4.05 | 3.88 | 3.75 | 3.64 | 3.55 | 3.47 | 3.35 | 3.25 | 3.12 | 3.02 | 2.92 | 2.82 | 2.76 | 2.67 | 2.62 | 2.56 | 2.51 | 2.49 |  |  |  |  |
| 24                  | 0.100 | 2.93              | 2.54 | 2.33 | 2.19 | 2.10 | 2.04 | 1.98 | 1.94 | 1.91 | 1.88 | 1.85 | 1.83 | 1.80 | 1.77 | 1.73 | 1.70 | 1.67 | 1.64 | 1.62 | 1.59 | 1.58 | 1.56 | 1.54 | 1.53 |  |  |  |  |
|                     | 0.050 | 4.26              | 3.40 | 3.01 | 2.78 | 2.62 | 2.51 | 2.42 | 2.36 | 2.30 | 2.25 | 2.22 | 2.18 | 2.13 | 2.09 | 2.03 | 1.98 | 1.94 | 1.89 | 1.86 | 1.82 | 1.80 | 1.77 | 1.75 | 1.73 |  |  |  |  |
|                     | 0.025 | 5.72              | 4.32 | 3.72 | 3.38 | 3.15 | 2.99 | 2.87 | 2.78 | 2.70 | 2.64 | 2.59 | 2.54 | 2.47 | 2.41 | 2.33 | 2.27 | 2.21 | 2.15 | 2.11 | 2.05 | 2.02 | 1.98 | 1.95 | 1.94 |  |  |  |  |
|                     | 0.010 | 7.82              | 5.61 | 4.72 | 4.22 | 3.90 | 3.67 | 3.50 | 3.36 | 3.26 | 3.17 | 3.09 | 3.03 | 2.93 | 2.85 | 2.74 | 2.66 | 2.58 | 2.49 | 2.44 | 2.37 | 2.33 | 2.27 | 2.24 | 2.21 |  |  |  |  |
|                     | 0.005 | 9.55              | 6.66 | 5.52 | 4.89 | 4.49 | 4.20 | 3.99 | 3.83 | 3.69 | 3.59 | 3.50 | 3.42 | 3.30 | 3.20 | 3.06 | 2.97 | 2.87 | 2.77 | 2.70 | 2.61 | 2.57 | 2.50 | 2.46 | 2.43 |  |  |  |  |
| 25                  | 0.100 | 2.92              | 2.53 | 2.32 | 2.18 | 2.09 | 2.02 | 1.97 | 1.93 | 1.89 | 1.87 | 1.84 | 1.82 | 1.79 | 1.76 | 1.72 | 1.69 | 1.66 | 1.63 | 1.61 | 1.58 | 1.56 | 1.54 | 1.53 | 1.52 |  |  |  |  |
|                     | 0.050 | 4.24              | 3.39 | 2.99 | 2.76 | 2.60 | 2.49 | 2.40 | 2.34 | 2.28 | 2.24 | 2.20 | 2.16 | 2.11 | 2.07 | 2.01 | 1.96 | 1.92 | 1.87 | 1.84 | 1.80 | 1.78 | 1.75 | 1.73 | 1.71 |  |  |  |  |
|                     | 0.025 | 5.69              | 4.29 | 3.69 | 3.35 | 3.13 | 2.97 | 2.85 | 2.75 | 2.68 | 2.61 | 2.56 | 2.51 | 2.44 | 2.38 | 2.30 | 2.24 | 2.18 | 2.12 | 2.08 | 2.02 | 2.00 | 1.95 | 1.92 | 1.91 |  |  |  |  |
|                     | 0.010 | 7.77              | 5.57 | 4.68 | 4.18 | 3.85 | 3.63 | 3.46 | 3.32 | 3.22 | 3.13 | 3.06 | 2.99 | 2.89 | 2.81 | 2.70 | 2.62 | 2.54 | 2.45 | 2.40 | 2.33 | 2.29 | 2.23 | 2.19 | 2.17 |  |  |  |  |
|                     | 0.005 | 9.48              | 6.60 | 5.46 | 4.84 | 4.43 | 4.15 | 3.94 | 3.78 | 3.64 | 3.54 | 3.45 | 3.37 | 3.25 | 3.15 | 3.01 | 2.92 | 2.82 | 2.72 | 2.65 | 2.56 | 2.52 | 2.45 | 2.41 | 2.38 |  |  |  |  |
| 26                  | 0.100 | 2.91              | 2.52 | 2.31 | 2.17 | 2.08 | 2.01 | 1.96 | 1.92 | 1.88 | 1.86 | 1.83 | 1.81 | 1.77 | 1.75 | 1.71 | 1.68 | 1.65 | 1.61 | 1.59 | 1.57 | 1.55 | 1.53 | 1.51 | 1.50 |  |  |  |  |
|                     | 0.050 | 4.23              | 3.37 | 2.98 | 2.74 | 2.59 | 2.47 | 2.39 | 2.32 | 2.27 | 2.22 | 2.18 | 2.15 | 2.09 | 2.05 | 1.99 | 1.95 | 1.90 | 1.85 | 1.82 | 1.78 | 1.76 | 1.73 | 1.71 | 1.69 |  |  |  |  |
|                     | 0.025 | 5.66              | 4.27 | 3.67 | 3.33 | 3.10 | 2.94 | 2.82 | 2.73 | 2.65 | 2.59 | 2.54 | 2.49 | 2.42 | 2.36 | 2.28 | 2.22 | 2.16 | 2.09 | 2.05 | 2.00 | 1.97 | 1.92 | 1.90 | 1.88 |  |  |  |  |
|                     | 0.010 | 7.72              | 5.53 | 4.64 | 4.14 | 3.82 | 3.59 | 3.42 | 3.29 | 3.18 | 3.09 | 3.02 | 2.96 | 2.86 | 2.78 | 2.66 | 2.58 | 2.50 | 2.42 | 2.36 | 2.29 | 2.25 | 2.19 | 2.16 | 2.13 |  |  |  |  |
|                     | 0.005 | 9.41              | 6.54 | 5.41 | 4.79 | 4.38 | 4.10 | 3.89 | 3.73 | 3.60 | 3.49 | 3.40 | 3.33 | 3.20 | 3.11 | 2.97 | 2.87 | 2.77 | 2.67 | 2.61 | 2.52 | 2.47 | 2.40 | 2.36 | 2.33 |  |  |  |  |
| 27                  | 0.100 | 2.90              | 2.51 | 2.30 | 2.17 | 2.07 | 2.00 | 1.95 | 1.91 | 1.87 | 1.85 | 1.82 | 1.80 | 1.76 | 1.74 | 1.70 | 1.67 | 1.64 | 1.60 | 1.58 | 1.55 | 1.54 | 1.52 | 1.50 | 1.49 |  |  |  |  |
|                     | 0.050 | 4.21              | 3.35 | 2.96 | 2.73 | 2.57 | 2.46 | 2.37 | 2.31 | 2.25 | 2.20 | 2.17 | 2.13 |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |

## Lanjutan Lampiran 6

| v2 =<br>dk penyebut |       | v1 = dk pembilang |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------|-------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                     |       | 1                 | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 14   | 16   | 20   | 24   | 30   | 40   | 50   | 75   | 100  | 200  | 500  | ∞    |
| 28                  | 0.010 | 7.68              | 5.49 | 4.60 | 4.11 | 3.78 | 3.56 | 3.39 | 3.26 | 3.15 | 3.06 | 2.99 | 2.93 | 2.82 | 2.75 | 2.63 | 2.55 | 2.47 | 2.38 | 2.33 | 2.26 | 2.22 | 2.16 | 2.12 | 2.10 |
|                     | 0.005 | 9.34              | 6.49 | 5.36 | 4.74 | 4.34 | 4.06 | 3.85 | 3.69 | 3.56 | 3.45 | 3.36 | 3.28 | 3.16 | 3.07 | 2.93 | 2.83 | 2.73 | 2.63 | 2.57 | 2.48 | 2.43 | 2.36 | 2.32 | 2.29 |
|                     | 0.100 | 2.89              | 2.50 | 2.29 | 2.16 | 2.06 | 2.00 | 1.94 | 1.90 | 1.87 | 1.84 | 1.81 | 1.79 | 1.75 | 1.73 | 1.69 | 1.66 | 1.63 | 1.59 | 1.57 | 1.54 | 1.53 | 1.50 | 1.49 | 1.48 |
|                     | 0.050 | 4.20              | 3.34 | 2.95 | 2.71 | 2.56 | 2.45 | 2.36 | 2.29 | 2.24 | 2.19 | 2.15 | 2.12 | 2.06 | 2.02 | 1.96 | 1.91 | 1.87 | 1.82 | 1.79 | 1.75 | 1.73 | 1.69 | 1.67 | 1.65 |
|                     | 0.025 | 5.61              | 4.22 | 3.63 | 3.29 | 3.06 | 2.90 | 2.78 | 2.69 | 2.61 | 2.55 | 2.49 | 2.45 | 2.37 | 2.32 | 2.23 | 2.17 | 2.11 | 2.05 | 2.01 | 1.95 | 1.92 | 1.88 | 1.85 | 1.83 |
| 29                  | 0.010 | 7.64              | 5.45 | 4.57 | 4.07 | 3.75 | 3.53 | 3.36 | 3.23 | 3.12 | 3.03 | 2.96 | 2.90 | 2.79 | 2.72 | 2.60 | 2.52 | 2.44 | 2.35 | 2.30 | 2.23 | 2.19 | 2.13 | 2.09 | 2.07 |
|                     | 0.005 | 9.28              | 6.44 | 5.32 | 4.70 | 4.30 | 4.02 | 3.81 | 3.65 | 3.52 | 3.41 | 3.32 | 3.25 | 3.12 | 3.03 | 2.89 | 2.79 | 2.69 | 2.59 | 2.53 | 2.44 | 2.39 | 2.32 | 2.28 | 2.25 |
|                     | 0.100 | 2.89              | 2.50 | 2.28 | 2.15 | 2.06 | 1.99 | 1.93 | 1.89 | 1.86 | 1.83 | 1.80 | 1.78 | 1.75 | 1.72 | 1.68 | 1.65 | 1.62 | 1.58 | 1.56 | 1.53 | 1.52 | 1.49 | 1.48 | 1.47 |
|                     | 0.050 | 4.18              | 3.33 | 2.93 | 2.70 | 2.55 | 2.43 | 2.35 | 2.28 | 2.22 | 2.18 | 2.14 | 2.10 | 2.05 | 2.01 | 1.94 | 1.90 | 1.85 | 1.81 | 1.77 | 1.73 | 1.71 | 1.67 | 1.65 | 1.64 |
|                     | 0.025 | 5.59              | 4.20 | 3.61 | 3.27 | 3.04 | 2.88 | 2.76 | 2.67 | 2.59 | 2.53 | 2.48 | 2.43 | 2.36 | 2.30 | 2.21 | 2.15 | 2.09 | 2.03 | 1.99 | 1.93 | 1.90 | 1.86 | 1.83 | 1.81 |
| 30                  | 0.010 | 7.60              | 5.42 | 4.54 | 4.04 | 3.73 | 3.50 | 3.33 | 3.20 | 3.09 | 3.00 | 2.93 | 2.87 | 2.77 | 2.69 | 2.57 | 2.49 | 2.41 | 2.33 | 2.27 | 2.20 | 2.16 | 2.10 | 2.06 | 2.04 |
|                     | 0.005 | 9.23              | 6.40 | 5.28 | 4.66 | 4.26 | 3.98 | 3.77 | 3.61 | 3.48 | 3.38 | 3.29 | 3.21 | 3.09 | 2.99 | 2.86 | 2.76 | 2.66 | 2.56 | 2.49 | 2.40 | 2.36 | 2.29 | 2.24 | 2.21 |
|                     | 0.100 | 2.88              | 2.49 | 2.26 | 2.14 | 2.05 | 1.98 | 1.93 | 1.88 | 1.85 | 1.82 | 1.79 | 1.77 | 1.74 | 1.71 | 1.67 | 1.64 | 1.61 | 1.57 | 1.55 | 1.52 | 1.51 | 1.48 | 1.47 | 1.46 |
|                     | 0.050 | 4.17              | 3.32 | 2.92 | 2.69 | 2.53 | 2.42 | 2.33 | 2.27 | 2.21 | 2.16 | 2.13 | 2.09 | 2.04 | 1.99 | 1.93 | 1.89 | 1.84 | 1.79 | 1.76 | 1.72 | 1.70 | 1.66 | 1.64 | 1.62 |
|                     | 0.025 | 5.57              | 4.18 | 3.59 | 3.25 | 3.03 | 2.87 | 2.75 | 2.65 | 2.57 | 2.51 | 2.46 | 2.41 | 2.34 | 2.28 | 2.20 | 2.14 | 2.07 | 2.01 | 1.97 | 1.91 | 1.88 | 1.84 | 1.81 | 1.79 |
| 40                  | 0.010 | 7.56              | 5.39 | 4.51 | 4.02 | 3.70 | 3.47 | 3.30 | 3.17 | 3.07 | 2.98 | 2.91 | 2.84 | 2.74 | 2.66 | 2.55 | 2.47 | 2.39 | 2.30 | 2.25 | 2.17 | 2.13 | 2.07 | 2.03 | 2.01 |
|                     | 0.005 | 9.18              | 6.35 | 5.24 | 4.62 | 4.23 | 3.95 | 3.74 | 3.58 | 3.45 | 3.34 | 3.25 | 3.18 | 3.06 | 2.96 | 2.82 | 2.73 | 2.63 | 2.52 | 2.46 | 2.37 | 2.32 | 2.25 | 2.21 | 2.18 |
|                     | 0.100 | 2.84              | 2.44 | 2.23 | 2.09 | 2.00 | 1.93 | 1.87 | 1.83 | 1.79 | 1.76 | 1.74 | 1.71 | 1.68 | 1.65 | 1.61 | 1.57 | 1.54 | 1.51 | 1.48 | 1.45 | 1.43 | 1.41 | 1.39 | 1.38 |
|                     | 0.050 | 4.08              | 3.23 | 2.84 | 2.61 | 2.45 | 2.34 | 2.25 | 2.18 | 2.12 | 2.08 | 2.04 | 2.00 | 1.95 | 1.90 | 1.84 | 1.79 | 1.74 | 1.69 | 1.66 | 1.61 | 1.59 | 1.55 | 1.53 | 1.51 |
|                     | 0.025 | 5.42              | 4.05 | 3.46 | 3.13 | 2.90 | 2.74 | 2.62 | 2.53 | 2.45 | 2.39 | 2.33 | 2.29 | 2.21 | 2.15 | 2.07 | 2.01 | 1.94 | 1.88 | 1.83 | 1.77 | 1.74 | 1.69 | 1.66 | 1.64 |
| 60                  | 0.010 | 7.31              | 5.18 | 4.31 | 3.83 | 3.51 | 3.29 | 3.12 | 2.99 | 2.89 | 2.80 | 2.73 | 2.66 | 2.56 | 2.48 | 2.37 | 2.29 | 2.20 | 2.11 | 2.06 | 1.98 | 1.94 | 1.87 | 1.83 | 1.81 |
|                     | 0.005 | 8.83              | 6.07 | 4.98 | 4.37 | 3.99 | 3.71 | 3.51 | 3.35 | 3.22 | 3.12 | 3.03 | 2.95 | 2.83 | 2.74 | 2.60 | 2.50 | 2.40 | 2.30 | 2.23 | 2.14 | 2.09 | 2.01 | 1.96 | 1.93 |
|                     | 0.100 | 2.79              | 2.39 | 2.18 | 2.04 | 1.95 | 1.87 | 1.82 | 1.77 | 1.74 | 1.71 | 1.68 | 1.66 | 1.62 | 1.59 | 1.54 | 1.51 | 1.48 | 1.44 | 1.41 | 1.38 | 1.36 | 1.33 | 1.31 | 1.29 |
|                     | 0.050 | 4.00              | 3.15 | 2.76 | 2.53 | 2.37 | 2.25 | 2.17 | 2.10 | 2.04 | 1.99 | 1.95 | 1.92 | 1.86 | 1.82 | 1.75 | 1.70 | 1.65 | 1.59 | 1.56 | 1.51 | 1.48 | 1.44 | 1.41 | 1.39 |
|                     | 0.025 | 5.29              | 3.93 | 3.34 | 3.01 | 2.79 | 2.63 | 2.51 | 2.41 | 2.33 | 2.27 | 2.22 | 2.17 | 2.09 | 2.03 | 1.94 | 1.88 | 1.82 | 1.74 | 1.70 | 1.63 | 1.60 | 1.54 | 1.51 | 1.48 |
| 120                 | 0.010 | 7.08              | 4.98 | 4.13 | 3.65 | 3.34 | 3.12 | 2.95 | 2.82 | 2.72 | 2.63 | 2.56 | 2.50 | 2.39 | 2.31 | 2.20 | 2.12 | 2.03 | 1.94 | 1.88 | 1.79 | 1.75 | 1.68 | 1.63 | 1.60 |
|                     | 0.005 | 8.49              | 5.79 | 4.73 | 4.14 | 3.76 | 3.49 | 3.29 | 3.13 | 3.01 | 2.90 | 2.82 | 2.74 | 2.62 | 2.53 | 2.39 | 2.29 | 2.19 | 2.08 | 2.01 | 1.91 | 1.86 | 1.78 | 1.73 | 1.69 |
|                     | 0.100 | 2.75              | 2.35 | 2.13 | 1.99 | 1.90 | 1.82 | 1.77 | 1.72 | 1.68 | 1.65 | 1.63 | 1.60 | 1.56 | 1.53 | 1.48 | 1.45 | 1.41 | 1.37 | 1.34 | 1.30 | 1.28 | 1.24 | 1.21 | 1.19 |
|                     | 0.050 | 3.92              | 3.07 | 2.68 | 2.45 | 2.29 | 2.18 | 2.09 | 2.02 | 1.96 | 1.91 | 1.87 | 1.83 | 1.78 | 1.73 | 1.66 | 1.61 | 1.55 | 1.50 | 1.46 | 1.40 | 1.37 | 1.32 | 1.28 | 1.26 |
|                     | 0.025 | 5.15              | 3.80 | 3.23 | 2.89 | 2.67 | 2.52 | 2.39 | 2.30 | 2.22 | 2.16 | 2.10 | 2.05 | 1.98 | 1.92 | 1.82 | 1.76 | 1.69 | 1.61 | 1.56 | 1.49 | 1.45 | 1.39 | 1.34 | 1.31 |
| 240                 | 0.010 | 6.85              | 4.79 | 3.95 | 3.48 | 3.17 | 2.96 | 2.79 | 2.66 | 2.56 | 2.47 | 2.40 | 2.34 | 2.23 | 2.15 | 2.03 | 1.95 | 1.86 | 1.76 | 1.70 | 1.61 | 1.56 | 1.48 | 1.42 | 1.38 |
|                     | 0.005 | 8.18              | 5.54 | 4.50 | 3.92 | 3.55 | 3.28 | 3.09 | 2.93 | 2.81 | 2.71 | 2.62 | 2.54 | 2.42 | 2.33 | 2.19 | 2.09 | 1.98 | 1.87 | 1.80 | 1.69 | 1.64 | 1.54 | 1.48 | 1.43 |
|                     | 0.100 | 2.73              | 2.32 | 2.11 | 1.97 | 1.87 | 1.80 | 1.74 | 1.70 | 1.66 | 1.63 | 1.60 | 1.57 | 1.53 | 1.50 | 1.45 | 1.42 | 1.38 | 1.33 | 1.30 | 1.26 | 1.23 | 1.19 | 1.16 | 1.13 |
|                     | 0.050 | 3.88              | 3.03 | 2.64 | 2.41 | 2.25 | 2.14 | 2.05 | 1.98 | 1.92 | 1.87 | 1.83 | 1.79 | 1.73 | 1.69 | 1.61 | 1.56 | 1.51 | 1.44 | 1.40 | 1.34 | 1.31 | 1.25 | 1.20 | 1.17 |
|                     | 0.025 | 5.09              | 3.75 | 3.17 | 2.84 | 2.62 | 2.46 | 2.34 | 2.25 | 2.17 | 2.10 | 2.05 | 2.00 | 1.92 | 1.86 | 1.77 | 1.70 | 1.63 | 1.55 | 1.50 | 1.42 | 1.38 | 1.30 | 1.25 | 1.21 |
| 500                 | 0.010 | 6.74              | 4.69 | 3.86 | 3.40 | 3.09 | 2.88 | 2.71 | 2.59 | 2.48 | 2.40 | 2.32 | 2.26 | 2.16 | 2.08 | 1.96 | 1.87 | 1.78 | 1.68 | 1.61 | 1.52 | 1.46 | 1.37 | 1.30 | 1.25 |
|                     | 0.005 | 8.03              | 5.42 | 4.39 | 3.82 | 3.45 | 3.19 | 2.99 | 2.84 | 2.71 | 2.61 | 2.52 | 2.45 | 2.33 | 2.23 | 2.09 | 1.99 | 1.89 | 1.77 | 1.69 | 1.58 | 1.52 | 1.42 | 1.34 | 1.28 |
|                     | 0.100 | 2.72              | 2.31 | 2.09 | 1.96 | 1.86 | 1.79 | 1.73 | 1.68 | 1.64 | 1.61 | 1.58 | 1.56 | 1.52 | 1.49 | 1.44 | 1.40 | 1.36 | 1.31 | 1.28 | 1.24 | 1.21 | 1.16 | 1.12 | 1.09 |
|                     | 0.050 | 3.86              | 3.01 | 2.62 | 2.39 | 2.23 | 2.12 | 2.03 | 1.96 | 1.90 | 1.85 | 1.81 | 1.77 | 1.71 | 1.66 | 1.59 | 1.54 | 1.48 | 1.42 | 1.38 | 1.31 | 1.28 | 1.21 | 1.16 | 1.12 |
|                     | 0.025 | 5.05              | 3.72 | 3.14 | 2.81 | 2.59 | 2.43 | 2.31 | 2.22 | 2.14 | 2.07 | 2.02 | 1.97 | 1.89 | 1.83 | 1.74 | 1.67 | 1.60 | 1.52 | 1.46 | 1.38 | 1.34 | 1.25 | 1.19 | 1.14 |
| ∞                   | 0.010 | 6.69              | 4.65 | 3.82 | 3.36 | 3.05 | 2.84 | 2.68 | 2.55 | 2.44 | 2.36 | 2.28 | 2.22 | 2.12 | 2.04 | 1.92 | 1.83 | 1.74 | 1.63 | 1.57 | 1.47 | 1.41 | 1.31 | 1.23 | 1.17 |
|                     | 0.005 | 7.95              | 5.35 | 4.33 | 3.76 | 3.40 | 3.14 | 2.94 | 2.79 | 2.66 | 2.56 | 2.48 | 2.40 | 2.28 | 2.19 | 2.04 | 1.94 | 1.84 | 1.72 | 1.64 | 1.52 | 1.46 | 1.35 | 1.26 | 1.19 |
|                     | 0.100 | 2.71              | 2.30 | 2.08 | 1.94 | 1.85 | 1.77 | 1.72 | 1.67 | 1.63 | 1.60 | 1.57 | 1.55 | 1.50 | 1.47 | 1.42 | 1.38 | 1.34 | 1.30 | 1.26 | 1.21 | 1.19 | 1.13 | 1.08 | 1.02 |
|                     | 0.050 | 3.84              | 3.00 | 2.60 | 2.37 | 2.21 | 2.10 | 2.01 | 1.94 | 1.88 | 1.83 | 1.79 | 1.75 | 1.69 | 1.64 | 1.57 | 1.52 | 1.46 | 1.39 | 1.35 | 1.28 | 1.24 | 1.17 | 1.11 | 1.02 |
|                     | 0.025 | 5.02              | 3.69 | 3.12 | 2.79 | 2.57 | 2.41 | 2.29 | 2.19 | 2.11 | 2.05 | 1.99 | 1.94 | 1.87 | 1.80 | 1.71 | 1.64 | 1.57 | 1.48 | 1.43 | 1.34 | 1.30 | 1.21 | 1.13 | 1.03 |
|                     | 0.010 | 6.64              | 4.61 | 3.78 | 3.32 | 3.02 | 2.80 | 2.64 | 2.51 | 2.41 | 2.32 | 2.25 | 2.18 | 2.08 | 2.00 | 1.88 | 1.79 | 1.70 | 1.59 | 1.52 | 1.42 | 1.36 | 1.25 | 1.15 | 1.03 |
|                     | 0.005 | 7.88              | 5.30 | 4.28 | 3.72 | 3.35 | 3.09 | 2.90 | 2.74 | 2.62 | 2.52 | 2.43 | 2.36 | 2.24 | 2.14 | 2.00 | 1.90 | 1.79 | 1.67 | 1.59 | 1.47 | 1.40 | 1.28 | 1.17 | 1.04 |

## Lampiran 7

Tabel Distribusi Chi-Kuadrat  $\chi^2$



| db  | 0.01    | 0.025   | 0.05    | 0.1     | 0.2     | 0.4     | 0.5    | 0.6    | 0.7    | 0.8    | 0.9    | 0.95   | 0.975  | 0.99   |
|-----|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1   | 6.635   | 5.024   | 3.841   | 2.706   | 1.642   | 0.708   | 0.455  | 0.275  | 0.148  | 0.084  | 0.016  | 0.004  | 0.001  | 0.000  |
| 2   | 9.210   | 7.378   | 5.991   | 4.605   | 3.219   | 1.833   | 1.386  | 1.022  | 0.713  | 0.446  | 0.211  | 0.103  | 0.051  | 0.020  |
| 3   | 11.345  | 9.348   | 7.815   | 6.251   | 4.642   | 2.946   | 2.366  | 1.869  | 1.424  | 1.005  | 0.584  | 0.352  | 0.216  | 0.115  |
| 4   | 13.277  | 11.143  | 9.488   | 7.779   | 5.989   | 4.045   | 3.357  | 2.753  | 2.195  | 1.649  | 1.064  | 0.711  | 0.484  | 0.297  |
| 5   | 15.086  | 12.833  | 11.070  | 9.236   | 7.289   | 5.132   | 4.351  | 3.655  | 3.000  | 2.343  | 1.610  | 1.145  | 0.831  | 0.554  |
| 6   | 16.812  | 14.449  | 12.592  | 10.645  | 8.558   | 6.211   | 5.348  | 4.570  | 3.828  | 3.070  | 2.204  | 1.635  | 1.237  | 0.872  |
| 7   | 18.475  | 16.013  | 14.067  | 12.017  | 9.803   | 7.283   | 6.346  | 5.493  | 4.671  | 3.822  | 2.833  | 2.167  | 1.690  | 1.239  |
| 8   | 20.090  | 17.535  | 15.507  | 13.362  | 11.030  | 8.351   | 7.344  | 6.423  | 5.527  | 4.594  | 3.490  | 2.733  | 2.180  | 1.646  |
| 9   | 21.666  | 19.023  | 16.919  | 14.684  | 12.242  | 9.414   | 8.343  | 7.357  | 6.393  | 5.380  | 4.168  | 3.325  | 2.700  | 2.088  |
| 10  | 23.209  | 20.483  | 18.307  | 15.987  | 13.442  | 10.473  | 9.342  | 8.295  | 7.267  | 6.179  | 4.865  | 3.940  | 3.247  | 2.558  |
| 11  | 24.725  | 21.920  | 19.675  | 17.275  | 14.631  | 11.530  | 10.341 | 9.237  | 8.148  | 6.989  | 5.578  | 4.575  | 3.816  | 3.053  |
| 12  | 26.217  | 23.337  | 21.026  | 18.549  | 15.812  | 12.584  | 11.340 | 10.182 | 9.034  | 7.807  | 6.304  | 5.226  | 4.404  | 3.571  |
| 13  | 27.688  | 24.736  | 22.362  | 19.812  | 16.985  | 13.636  | 12.340 | 11.129 | 9.926  | 8.634  | 7.042  | 5.892  | 5.009  | 4.107  |
| 14  | 29.141  | 26.119  | 23.685  | 21.064  | 18.151  | 14.685  | 13.339 | 12.078 | 10.821 | 9.467  | 7.790  | 6.571  | 5.629  | 4.660  |
| 15  | 30.578  | 27.488  | 24.996  | 22.307  | 19.311  | 15.733  | 14.339 | 13.030 | 11.721 | 10.307 | 8.547  | 7.261  | 6.262  | 5.229  |
| 16  | 32.000  | 28.845  | 26.296  | 23.542  | 20.465  | 16.780  | 15.338 | 13.983 | 12.624 | 11.152 | 9.312  | 7.962  | 6.908  | 5.812  |
| 17  | 33.409  | 30.191  | 27.587  | 24.769  | 21.615  | 17.824  | 16.338 | 14.937 | 13.531 | 12.002 | 10.085 | 8.672  | 7.564  | 6.408  |
| 18  | 34.805  | 31.526  | 28.869  | 25.989  | 22.760  | 18.868  | 17.338 | 15.893 | 14.440 | 12.857 | 10.865 | 9.390  | 8.231  | 7.015  |
| 19  | 36.191  | 32.852  | 30.144  | 27.204  | 23.900  | 19.910  | 18.338 | 16.850 | 15.352 | 13.716 | 11.651 | 10.117 | 8.907  | 7.633  |
| 20  | 37.566  | 34.170  | 31.410  | 28.412  | 25.038  | 20.951  | 19.337 | 17.809 | 16.266 | 14.578 | 12.443 | 10.851 | 9.591  | 8.260  |
| 21  | 38.932  | 35.479  | 32.671  | 29.615  | 26.171  | 21.991  | 20.337 | 18.768 | 17.182 | 15.445 | 13.240 | 11.591 | 10.283 | 8.897  |
| 22  | 40.289  | 36.781  | 33.924  | 30.813  | 27.301  | 23.031  | 21.337 | 19.729 | 18.101 | 16.314 | 14.041 | 12.338 | 10.982 | 9.542  |
| 23  | 41.638  | 38.076  | 35.172  | 32.007  | 28.429  | 24.069  | 22.337 | 20.690 | 19.021 | 17.187 | 14.848 | 13.091 | 11.689 | 10.196 |
| 24  | 42.980  | 39.364  | 36.415  | 33.196  | 29.553  | 25.106  | 23.337 | 21.652 | 19.943 | 18.062 | 15.659 | 13.848 | 12.401 | 10.856 |
| 25  | 44.314  | 40.646  | 37.652  | 34.382  | 30.675  | 26.143  | 24.337 | 22.616 | 20.867 | 18.940 | 16.473 | 14.611 | 13.120 | 11.524 |
| 26  | 45.642  | 41.923  | 38.885  | 35.563  | 31.795  | 27.179  | 25.336 | 23.579 | 21.792 | 19.820 | 17.292 | 15.379 | 13.844 | 12.198 |
| 27  | 46.963  | 43.195  | 40.113  | 36.741  | 32.912  | 28.214  | 26.336 | 24.544 | 22.719 | 20.703 | 18.114 | 16.151 | 14.573 | 12.879 |
| 28  | 48.278  | 44.461  | 41.337  | 37.916  | 34.027  | 29.249  | 27.336 | 25.509 | 23.647 | 21.588 | 18.939 | 16.928 | 15.308 | 13.565 |
| 29  | 49.588  | 45.722  | 42.557  | 39.087  | 35.139  | 30.283  | 28.336 | 26.475 | 24.577 | 22.475 | 19.768 | 17.708 | 16.047 | 14.256 |
| 30  | 50.892  | 46.979  | 43.773  | 40.256  | 36.250  | 31.316  | 29.336 | 27.442 | 25.508 | 23.364 | 20.599 | 18.493 | 16.791 | 14.953 |
| 31  | 52.191  | 48.232  | 44.985  | 41.422  | 37.359  | 32.349  | 30.336 | 28.409 | 26.440 | 24.255 | 21.434 | 19.281 | 17.539 | 15.655 |
| 32  | 53.486  | 49.480  | 46.194  | 42.585  | 38.466  | 33.381  | 31.336 | 29.376 | 27.373 | 25.148 | 22.271 | 20.072 | 18.291 | 16.362 |
| 33  | 54.776  | 50.725  | 47.400  | 43.745  | 39.572  | 34.413  | 32.336 | 30.344 | 28.307 | 26.042 | 23.110 | 20.867 | 19.047 | 17.074 |
| 34  | 56.061  | 51.966  | 48.602  | 44.903  | 40.676  | 35.444  | 33.336 | 31.313 | 29.242 | 26.938 | 23.952 | 21.664 | 19.806 | 17.789 |
| 35  | 57.342  | 53.203  | 49.802  | 46.059  | 41.778  | 36.475  | 34.336 | 32.282 | 30.178 | 27.836 | 24.797 | 22.465 | 20.569 | 18.509 |
| 36  | 58.619  | 54.437  | 50.998  | 47.212  | 42.879  | 37.505  | 35.336 | 33.252 | 31.115 | 28.735 | 25.643 | 23.269 | 21.336 | 19.233 |
| 37  | 59.893  | 55.668  | 52.192  | 48.363  | 43.978  | 38.535  | 36.336 | 34.222 | 32.053 | 29.635 | 26.492 | 24.075 | 22.106 | 19.960 |
| 38  | 61.162  | 56.896  | 53.384  | 49.513  | 45.076  | 39.564  | 37.335 | 35.192 | 32.992 | 30.537 | 27.343 | 24.884 | 22.878 | 20.691 |
| 39  | 62.428  | 58.120  | 54.572  | 50.660  | 46.173  | 40.593  | 38.335 | 36.163 | 33.932 | 31.441 | 28.196 | 25.695 | 23.654 | 21.426 |
| 40  | 63.691  | 59.342  | 55.758  | 51.805  | 47.269  | 41.622  | 39.335 | 37.134 | 34.872 | 32.345 | 29.051 | 26.509 | 24.433 | 22.164 |
| 45  | 69.957  | 65.410  | 61.656  | 57.505  | 52.729  | 46.761  | 44.335 | 41.995 | 39.585 | 36.884 | 33.350 | 30.612 | 28.366 | 25.901 |
| 50  | 76.154  | 71.420  | 67.505  | 63.167  | 58.164  | 51.892  | 49.335 | 46.864 | 44.313 | 41.449 | 37.689 | 34.764 | 32.357 | 29.707 |
| 55  | 82.292  | 77.380  | 73.311  | 68.796  | 63.577  | 57.016  | 54.335 | 51.739 | 49.055 | 46.036 | 42.060 | 38.958 | 36.398 | 33.570 |
| 60  | 88.379  | 83.298  | 79.082  | 74.397  | 68.972  | 62.135  | 59.335 | 56.620 | 53.809 | 50.641 | 46.459 | 43.188 | 40.482 | 37.485 |
| 65  | 94.422  | 89.177  | 84.821  | 79.973  | 74.351  | 67.249  | 64.335 | 61.506 | 58.573 | 55.262 | 50.883 | 47.450 | 44.603 | 41.444 |
| 70  | 100.425 | 95.023  | 90.531  | 85.527  | 79.715  | 72.358  | 69.334 | 66.396 | 63.346 | 59.898 | 55.329 | 51.739 | 48.758 | 45.442 |
| 80  | 112.329 | 106.629 | 101.879 | 96.578  | 90.405  | 82.566  | 79.334 | 76.188 | 72.915 | 69.207 | 64.278 | 60.391 | 57.153 | 53.540 |
| 100 | 135.807 | 129.561 | 124.342 | 118.498 | 111.667 | 102.946 | 99.334 | 95.808 | 92.129 | 87.945 | 82.358 | 77.929 | 74.222 | 70.065 |

## Lampiran 8

**Tabel Log Pearson III-a Faktor Sifat Distribusi Log Pearson Tipe III untuk Cs Positif**

| Skew<br>Coef.<br>(Cs) | 1,0101 | 1,053  | 1,1111 | 1,2500 | 2              | 5     | 10    | 25    | 50    | 100   | 200   |
|-----------------------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|
|                       | 99     | 95     | 90     | 80     | Percent Change |       |       | 4     | 2     | 1     | 0,5   |
|                       |        |        |        |        | 50             | 20    | 10    |       |       |       |       |
| 3.0                   | -0,667 | -0,665 | -0,660 | -0,636 | -0,396         | 0,420 | 1,180 | 2,278 | 3,152 | 4,061 | 4,970 |
| 2.9                   | -0,690 | -0,688 | -0,681 | -0,651 | -0,390         | 0,440 | 1,196 | 2,277 | 3,134 | 4,013 | 4,909 |
| 2.8                   | -0,714 | -0,711 | -0,702 | -0,666 | -0,384         | 0,460 | 1,210 | 2,275 | 3,114 | 3,973 | 4,847 |
| 2.7                   | -0,740 | -0,736 | -0,724 | -0,681 | -0,376         | 0,479 | 1,224 | 2,272 | 3,097 | 3,932 | 4,783 |
| 2.6                   | -0,769 | -0,762 | -0,747 | -0,695 | -0,368         | 0,499 | 1,238 | 2,267 | 3,071 | 3,889 | 4,718 |
| 2.5                   | -0,799 | -0,790 | -0,771 | -0,711 | -0,360         | 0,518 | 1,250 | 2,262 | 3,048 | 3,845 | 4,652 |
| 2.4                   | -0,832 | -0,819 | -0,795 | -0,725 | -0,351         | 0,537 | 1,262 | 2,256 | 3,029 | 3,800 | 4,584 |
| 2.3                   | -0,867 | -0,850 | -0,819 | -0,739 | -0,341         | 0,555 | 1,274 | 2,248 | 2,997 | 3,753 | 4,515 |
| 2.2                   | -0,905 | -0,882 | -0,844 | -0,752 | -0,330         | 0,574 | 1,284 | 2,240 | 2,970 | 3,705 | 4,454 |
| 2.1                   | -0,946 | -0,914 | -0,869 | -0,765 | -0,319         | 0,592 | 1,294 | 2,230 | 2,942 | 3,656 | 4,372 |
| 2.0                   | -0,990 | -0,949 | -0,896 | -0,777 | -0,307         | 0,609 | 1,302 | 2,219 | 2,912 | 3,605 | 4,298 |
| 1.9                   | -1,037 | -0,984 | -0,920 | -0,788 | -0,294         | 0,627 | 1,310 | 2,207 | 2,881 | 3,553 | 4,223 |
| 1.8                   | -1,087 | -1,020 | -0,945 | -0,799 | -0,282         | 0,643 | 1,318 | 2,193 | 2,848 | 3,499 | 4,147 |
| 1.7                   | -1,140 | -1,056 | -0,970 | -0,808 | -0,268         | 0,660 | 1,324 | 2,179 | 2,815 | 3,444 | 4,069 |
| 1.6                   | -1,197 | -1,093 | -0,994 | -0,817 | -0,254         | 0,675 | 1,329 | 2,163 | 2,780 | 3,388 | 3,990 |
| 1.5                   | -1,256 | -1,131 | -1,018 | -0,825 | -0,240         | 0,690 | 1,333 | 2,146 | 2,745 | 3,330 | 3,910 |
| 1.4                   | -1,318 | -1,163 | -1,041 | -0,832 | -0,225         | 0,705 | 1,337 | 2,128 | 2,706 | 3,271 | 3,828 |
| 1.3                   | -1,388 | -1,206 | -1,064 | -0,838 | -0,210         | 0,719 | 1,339 | 2,108 | 2,666 | 3,211 | 3,745 |
| 1.2                   | -1,449 | -1,243 | -1,086 | -0,844 | -0,195         | 0,732 | 1,340 | 2,087 | 2,626 | 3,149 | 3,661 |
| 1.1                   | -1,518 | -1,280 | -1,107 | -0,848 | -0,180         | 0,745 | 1,341 | 2,066 | 2,585 | 3,087 | 3,575 |
| 1.0                   | -1,588 | -1,317 | -1,128 | -0,852 | -0,164         | 0,758 | 1,340 | 2,043 | 2,542 | 3,022 | 3,489 |
| 0.9                   | -1,660 | -1,353 | -1,147 | -0,854 | -0,148         | 0,769 | 1,339 | 2,018 | 2,498 | 2,967 | 3,401 |
| 0.8                   | -1,733 | -1,388 | -1,166 | -0,856 | -0,132         | 0,780 | 1,336 | 1,993 | 2,453 | 2,891 | 3,312 |
| 0.7                   | -1,806 | -1,423 | -1,183 | -0,857 | -0,116         | 0,790 | 1,333 | 1,967 | 2,407 | 2,824 | 3,223 |
| 0.6                   | -1,880 | -1,458 | -1,200 | -0,857 | -0,099         | 0,800 | 1,328 | 1,939 | 2,359 | 2,755 | 3,123 |
| 0.5                   | -1,965 | -1,491 | -1,216 | -0,856 | -0,083         | 0,808 | 1,323 | 1,910 | 2,311 | 2,686 | 3,041 |
| 0.4                   | -2,029 | -1,524 | -1,231 | -0,855 | -0,066         | 0,816 | 1,317 | 1,880 | 2,261 | 2,615 | 2,949 |
| 0.3                   | -2,104 | -1,555 | -1,245 | -0,853 | -0,050         | 0,824 | 1,309 | 1,849 | 2,211 | 2,544 | 2,856 |
| 0.2                   | -2,175 | -1,586 | -1,258 | -0,850 | -0,033         | 0,830 | 1,301 | 1,818 | 2,159 | 2,472 | 2,763 |
| 0.1                   | -2,225 | -1,616 | -1,270 | -0,846 | -0,017         | 0,836 | 1,292 | 1,785 | 2,107 | 2,400 | 2,670 |
| 0                     | -2,326 | -1,645 | -1,282 | -0,842 | 0,000          | 0,842 | 1,282 | 1,751 | 2,064 | 2,064 | 2,576 |

## Lanjutan Lampiran 8

**Tabel Log Pearson III-b. Faktor Sifat Distribusi Log Pearson Tipe III untuk Cs Negatif**

| Skew          | 1,0101 | 1,0526 | 1,1111 | 1,2500 | 2              | 5     | 10    | 25    | 50    | 100   | 200   |
|---------------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|
| Coef.<br>(Cs) | 99     | 95     | 90     | 80     | Percent Change |       |       | 4     | 2     | 1     | 0,5   |
|               |        |        |        |        | 50             | 20    | 10    |       |       |       |       |
| 0             | -2,336 | -1,645 | -1,282 | -0,824 | 0,000          | 0,842 | 1,282 | 1,750 | 2,054 | 2,326 | 2,576 |
| -0.1          | -2,400 | -1,673 | -1,292 | -0,836 | 0,017          | 0,846 | 1,270 | 1,716 | 2,000 | 2,252 | 2,482 |
| -0.2          | -2,472 | -1,700 | -1,301 | -0,830 | 0,033          | 0,850 | 1,258 | 1,680 | 1,945 | 2,178 | 2,388 |
| -0.3          | -2,544 | -1,762 | -1,309 | -0,824 | 0,050          | 0,853 | 1,245 | 0,163 | 1,890 | 2,104 | 2,294 |
| -0.4          | -2,615 | -1,750 | -1,317 | -0,816 | 0,066          | 0,855 | 1,231 | 1,606 | 1,834 | 2,029 | 2,201 |
| -0.5          | -2,686 | -1,774 | -1,323 | -0,808 | 0,083          | 0,856 | 1,216 | 1,567 | 1,777 | 1,955 | 2,108 |
| -0.6          | -2,755 | -1,797 | -1,328 | -0,800 | 0,099          | 0,857 | 1,200 | 1,528 | 1,720 | 1,880 | 2,016 |
| -0.7          | -2,824 | -1,819 | -1,333 | -0,790 | 0,116          | 0,857 | 1,183 | 1,488 | 1,633 | 1,800 | 1,936 |
| -0.8          | -2,891 | -1,839 | -1,336 | -0,780 | 0,132          | 0,856 | 1,166 | 1,484 | 1,608 | 1,733 | 1,837 |
| -0.9          | -2,957 | -1,858 | -1,339 | -0,769 | 0,148          | 0,854 | 1,147 | 1,407 | 1,549 | 1,660 | 1,749 |
| -1.0          | -3,022 | -1,877 | -1,340 | -0,758 | 0,164          | 0,852 | 1,108 | 1,366 | 1,492 | 1,588 | 1,664 |
| -1.1          | -3,087 | -1,894 | -1,341 | -0,745 | 0,180          | 0,848 | 1,107 | 1,324 | 1,435 | 1,518 | 1,581 |
| -1.2          | -3,149 | -1,910 | -1,340 | -0,732 | 0,195          | 0,844 | 1,086 | 1,282 | 1,379 | 1,449 | 1,501 |
| -1.3          | -3,211 | -1,925 | -1,339 | -0,719 | 0,210          | 0,838 | 1,064 | 1,240 | 1,324 | 1,383 | 1,424 |
| -1.4          | -3,271 | -1,938 | -1,337 | -0,705 | 0,225          | 0,832 | 1,041 | 1,196 | 1,270 | 1,316 | 1,351 |
| -1.5          | -3,330 | -1,961 | -1,333 | -0,690 | 0,240          | 0,825 | 1,018 | 1,157 | 1,217 | 1,256 | 1,282 |
| -1.6          | -3,388 | -1,962 | -1,329 | -0,675 | 0,254          | 0,817 | 0,994 | 1,116 | 1,168 | 1,197 | 1,216 |
| -1.7          | -3,444 | -1,972 | -1,324 | -0,660 | 0,268          | 0,808 | 0,970 | 1,075 | 1,116 | 1,140 | 1,155 |
| -1.8          | -3,499 | -1,981 | -1,318 | -0,643 | 0,282          | 0,799 | 0,945 | 1,035 | 1,069 | 1,087 | 1,097 |
| -1.9          | -3,533 | -1,989 | -1,310 | -0,627 | 0,294          | 0,788 | 0,920 | 0,996 | 1,023 | 1,037 | 1,044 |
| -2.0          | -3,605 | -1,996 | -1,302 | -0,609 | 0,307          | 0,777 | 0,895 | 0,969 | 0,980 | 0,990 | 0,995 |
| -2.1          | -3,656 | -2,001 | -1,294 | -0,592 | 0,319          | 0,765 | 0,869 | 0,923 | 0,939 | 0,346 | 0,949 |
| -2.2          | -3,705 | -2,006 | -1,284 | -0,574 | 0,330          | 0,732 | 0,849 | 0,888 | 0,900 | 0,905 | 0,907 |
| -2.3          | -3,753 | -2,009 | -1,274 | -0,555 | 0,341          | 0,739 | 0,819 | 0,855 | 0,864 | 0,867 | 0,869 |
| -2.4          | -3,800 | -2,011 | -1,262 | -0,537 | 0,351          | 0,725 | 0,795 | 0,823 | 0,830 | 0,832 | 0,833 |
| -2.5          | -3,845 | -2,012 | -1,250 | -0,518 | 0,360          | 0,711 | 0,771 | 0,793 | 0,796 | 0,799 | 0,800 |
| -2.6          | -3,889 | -2,013 | -1,238 | -0,499 | 0,368          | 0,696 | 0,747 | 0,764 | 0,767 | 0,769 | 0,769 |
| -2.7          | -3,932 | -2,011 | -1,224 | -0,479 | 0,376          | 0,681 | 0,724 | 0,738 | 0,740 | 0,740 | 0,741 |
| -2.8          | -3,973 | -2,010 | -1,210 | -0,460 | 0,384          | 0,666 | 0,702 | 0,712 | 0,714 | 0,734 | 0,714 |
| -2.9          | -4,013 | -2,007 | -1,195 | -0,440 | 0,330          | 0,651 | 0,681 | 0,683 | 0,689 | 0,690 | 0,690 |
| -3.0          | -4,051 | -2,003 | -1,180 | -0,420 | 0,390          | 0,636 | 0,660 | 0,666 | 0,666 | 0,667 | 0,667 |

## Lampiran 9

**Tabel curah hujan dari ARR (*Automatic Rainfall Recorder*)**

| No   | Tanggal    | Waktu   | Hujan (mm) |
|------|------------|---------|------------|
| 2042 | 08/04/2012 | 1:00:00 | 0          |
| 2043 | 08/04/2012 | 0:55:00 | 0          |
| 2044 | 08/04/2012 | 0:50:00 | 0          |
| 2045 | 08/04/2012 | 0:45:00 | 0          |
| 2046 | 08/04/2012 | 0:40:00 | 0          |
| 2047 | 08/04/2012 | 0:35:00 | 0          |
| 2048 | 08/04/2012 | 0:30:00 | 0          |
| 2049 | 08/04/2012 | 0:25:00 | 0          |
| 2050 | 08/04/2012 | 0:20:00 | 0          |
| 2051 | 08/04/2012 | 0:15:00 | 0          |
| 2052 | 08/04/2012 | 0:10:00 | 0          |
| 2053 | 08/04/2012 | 0:05:00 | 0          |
| 2054 | 08/04/2012 | 2:00:00 | 0          |
| 2055 | 08/04/2012 | 1:55:00 | 0          |
| 2056 | 08/04/2012 | 1:50:00 | 0          |
| 2057 | 08/04/2012 | 1:45:00 | 0          |
| 2058 | 08/04/2012 | 1:40:00 | 0          |
| 2059 | 08/04/2012 | 1:35:00 | 0          |
| 2060 | 08/04/2012 | 1:30:00 | 0          |
| 2061 | 08/04/2012 | 1:25:00 | 0          |
| 2062 | 08/04/2012 | 1:20:00 | 0          |
| 2063 | 08/04/2012 | 1:15:00 | 0          |
| 2064 | 08/04/2012 | 1:10:00 | 0          |
| 2065 | 08/04/2012 | 1:05:00 | 0          |
| 2066 | 08/04/2012 | 3:00:00 | 0          |
| 2067 | 08/04/2012 | 2:55:00 | 0          |
| 2068 | 08/04/2012 | 2:50:00 | 0          |
| 2069 | 08/04/2012 | 2:45:00 | 0          |
| 2070 | 08/04/2012 | 2:40:00 | 0          |
| 2071 | 08/04/2012 | 2:35:00 | 0          |
| 2072 | 08/04/2012 | 2:30:00 | 0          |
| 2073 | 08/04/2012 | 2:25:00 | 0          |
| 2074 | 08/04/2012 | 2:20:00 | 0          |
| 2075 | 08/04/2012 | 2:15:00 | 0          |
| 2076 | 08/04/2012 | 2:10:00 | 0          |
| 2077 | 08/04/2012 | 2:05:00 | 0          |
| 2078 | 08/04/2012 | 4:00:00 | 0          |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2079      | 08/04/2012     | 3:55:00      | 0                 |
| 2080      | 08/04/2012     | 3:50:00      | 0                 |
| 2081      | 08/04/2012     | 3:45:00      | 0                 |
| 2082      | 08/04/2012     | 3:40:00      | 0                 |
| 2083      | 08/04/2012     | 3:35:00      | 0                 |
| 2084      | 08/04/2012     | 3:30:00      | 0                 |
| 2085      | 08/04/2012     | 3:25:00      | 0                 |
| 2086      | 08/04/2012     | 3:20:00      | 0                 |
| 2087      | 08/04/2012     | 3:15:00      | 0                 |
| 2088      | 08/04/2012     | 3:10:00      | 0                 |
| 2089      | 08/04/2012     | 3:05:00      | 0                 |
| 2090      | 08/04/2012     | 5:00:00      | 0                 |
| 2091      | 08/04/2012     | 4:55:00      | 0                 |
| 2092      | 08/04/2012     | 4:50:00      | 0                 |
| 2093      | 08/04/2012     | 4:45:00      | 0                 |
| 2094      | 08/04/2012     | 4:40:00      | 0                 |
| 2095      | 08/04/2012     | 4:35:00      | 0                 |
| 2096      | 08/04/2012     | 4:30:00      | 0                 |
| 2097      | 08/04/2012     | 4:25:00      | 0                 |
| 2098      | 08/04/2012     | 4:20:00      | 0                 |
| 2099      | 08/04/2012     | 4:15:00      | 0                 |
| 2100      | 08/04/2012     | 4:10:00      | 0                 |
| 2101      | 08/04/2012     | 4:05:00      | 0                 |
| 2102      | 08/04/2012     | 6:00:00      | 0                 |
| 2103      | 08/04/2012     | 5:55:00      | 0                 |
| 2104      | 08/04/2012     | 5:50:00      | 0                 |
| 2105      | 08/04/2012     | 5:45:00      | 0                 |
| 2106      | 08/04/2012     | 5:40:00      | 0                 |
| 2107      | 08/04/2012     | 5:35:00      | 0                 |
| 2108      | 08/04/2012     | 5:30:00      | 0                 |
| 2109      | 08/04/2012     | 5:25:00      | 0                 |
| 2110      | 08/04/2012     | 5:20:00      | 0                 |
| 2111      | 08/04/2012     | 5:15:00      | 0                 |
| 2112      | 08/04/2012     | 5:10:00      | 0                 |
| 2113      | 08/04/2012     | 5:05:00      | 0                 |
| 2114      | 08/04/2012     | 7:00:00      | 0                 |
| 2115      | 08/04/2012     | 6:55:00      | 0                 |
| 2116      | 08/04/2012     | 6:50:00      | 0                 |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2117      | 08/04/2012     | 6:45:00      | 0                 |
| 2118      | 08/04/2012     | 6:40:00      | 0                 |
| 2119      | 08/04/2012     | 6:35:00      | 0                 |
| 2120      | 08/04/2012     | 6:30:00      | 0                 |
| 2121      | 08/04/2012     | 6:25:00      | 0                 |
| 2122      | 08/04/2012     | 6:20:00      | 0                 |
| 2123      | 08/04/2012     | 6:15:00      | 0                 |
| 2124      | 08/04/2012     | 6:10:00      | 0                 |
| 2125      | 08/04/2012     | 6:05:00      | 0                 |
| 2126      | 08/04/2012     | 8:00:00      | 0                 |
| 2127      | 08/04/2012     | 7:55:00      | 0                 |
| 2128      | 08/04/2012     | 7:50:00      | 0                 |
| 2129      | 08/04/2012     | 7:45:00      | 0                 |
| 2130      | 08/04/2012     | 7:40:00      | 0                 |
| 2131      | 08/04/2012     | 7:35:00      | 0                 |
| 2132      | 08/04/2012     | 7:30:00      | 0                 |
| 2133      | 08/04/2012     | 7:25:00      | 0                 |
| 2134      | 08/04/2012     | 7:20:00      | 0                 |
| 2135      | 08/04/2012     | 7:15:00      | 0                 |
| 2136      | 08/04/2012     | 7:10:00      | 0                 |
| 2137      | 08/04/2012     | 7:05:00      | 0                 |
| 2138      | 08/04/2012     | 9:00:00      | 0                 |
| 2139      | 08/04/2012     | 8:55:00      | 0                 |
| 2140      | 08/04/2012     | 8:50:00      | 0                 |
| 2141      | 08/04/2012     | 8:45:00      | 0                 |
| 2142      | 08/04/2012     | 8:40:00      | 0                 |
| 2143      | 08/04/2012     | 8:35:00      | 0                 |
| 2144      | 08/04/2012     | 8:30:00      | 0                 |
| 2145      | 08/04/2012     | 8:25:00      | 0                 |
| 2146      | 08/04/2012     | 8:20:00      | 0                 |
| 2147      | 08/04/2012     | 8:15:00      | 0                 |
| 2148      | 08/04/2012     | 8:10:00      | 0                 |
| 2149      | 08/04/2012     | 8:05:00      | 0                 |
| 2150      | 08/04/2012     | 10:00:00     | 0                 |
| 2151      | 08/04/2012     | 9:55:00      | 0                 |
| 2152      | 08/04/2012     | 9:50:00      | 0                 |
| 2153      | 08/04/2012     | 9:45:00      | 0                 |
| 2154      | 08/04/2012     | 9:40:00      | 0                 |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2155      | 08/04/2012     | 9:35:00      | 0                 |
| 2156      | 08/04/2012     | 9:30:00      | 0                 |
| 2157      | 08/04/2012     | 9:25:00      | 0                 |
| 2158      | 08/04/2012     | 9:20:00      | 0                 |
| 2159      | 08/04/2012     | 9:15:00      | 0                 |
| 2160      | 08/04/2012     | 9:10:00      | 0                 |
| 2161      | 08/04/2012     | 9:05:00      | 0                 |
| 2162      | 08/04/2012     | 11:00:00     | 0                 |
| 2163      | 08/04/2012     | 10:55:00     | 0                 |
| 2164      | 08/04/2012     | 10:50:00     | 0                 |
| 2165      | 08/04/2012     | 10:45:00     | 0                 |
| 2166      | 08/04/2012     | 10:40:00     | 0                 |
| 2167      | 08/04/2012     | 10:35:00     | 0                 |
| 2168      | 08/04/2012     | 10:30:00     | 0                 |
| 2169      | 08/04/2012     | 10:25:00     | 0                 |
| 2170      | 08/04/2012     | 10:20:00     | 0                 |
| 2171      | 08/04/2012     | 10:15:00     | 0                 |
| 2172      | 08/04/2012     | 10:10:00     | 0                 |
| 2173      | 08/04/2012     | 10:05:00     | 0                 |
| 2174      | 08/04/2012     | 12:00:00     | 0                 |
| 2175      | 08/04/2012     | 11:55:00     | 0                 |
| 2176      | 08/04/2012     | 11:50:00     | 0                 |
| 2177      | 08/04/2012     | 11:45:00     | 0                 |
| 2178      | 08/04/2012     | 11:40:00     | 0                 |
| 2179      | 08/04/2012     | 11:35:00     | 0                 |
| 2180      | 08/04/2012     | 11:30:00     | 0                 |
| 2181      | 08/04/2012     | 11:25:00     | 0                 |
| 2182      | 08/04/2012     | 11:20:00     | 0                 |
| 2183      | 08/04/2012     | 11:15:00     | 0                 |
| 2184      | 08/04/2012     | 11:10:00     | 0                 |
| 2185      | 08/04/2012     | 11:05:00     | 0                 |
| 2186      | 08/04/2012     | 13:00:00     | 0                 |
| 2187      | 08/04/2012     | 12:55:00     | 0                 |
| 2188      | 08/04/2012     | 12:50:00     | 0                 |
| 2189      | 08/04/2012     | 12:45:00     | 0                 |
| 2190      | 08/04/2012     | 12:40:00     | 0                 |
| 2191      | 08/04/2012     | 12:35:00     | 0                 |
| 2192      | 08/04/2012     | 12:30:00     | 0                 |
| 2193      | 08/04/2012     | 12:25:00     | 0                 |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2194      | 08/04/2012     | 12:20:00     | 0                 |
| 2195      | 08/04/2012     | 12:15:00     | 0                 |
| 2196      | 08/04/2012     | 12:10:00     | 0                 |
| 2197      | 08/04/2012     | 12:05:00     | 0                 |
| 2198      | 08/04/2012     | 14:00:00     | 0                 |
| 2199      | 08/04/2012     | 13:55:00     | 0                 |
| 2200      | 08/04/2012     | 13:50:00     | 0                 |
| 2201      | 08/04/2012     | 13:45:00     | 0                 |
| 2202      | 08/04/2012     | 13:40:00     | 0                 |
| 2203      | 08/04/2012     | 13:35:00     | 0                 |
| 2204      | 08/04/2012     | 13:30:00     | 0                 |
| 2205      | 08/04/2012     | 13:25:00     | 0                 |
| 2206      | 08/04/2012     | 13:20:00     | 0                 |
| 2207      | 08/04/2012     | 13:15:00     | 0                 |
| 2208      | 08/04/2012     | 13:10:00     | 0                 |
| 2209      | 08/04/2012     | 13:05:00     | 0                 |
| 2210      | 08/04/2012     | 15:00:00     | 0                 |
| 2211      | 08/04/2012     | 14:55:00     | 0                 |
| 2212      | 08/04/2012     | 14:50:00     | 0                 |
| 2213      | 08/04/2012     | 14:45:00     | 0                 |
| 2214      | 08/04/2012     | 14:40:00     | 0                 |
| 2215      | 08/04/2012     | 14:35:00     | 0                 |
| 2216      | 08/04/2012     | 14:30:00     | 0                 |
| 2217      | 08/04/2012     | 14:25:00     | 0                 |
| 2218      | 08/04/2012     | 14:20:00     | 0                 |
| 2219      | 08/04/2012     | 14:15:00     | 0                 |
| 2220      | 08/04/2012     | 14:10:00     | 0                 |
| 2221      | 08/04/2012     | 14:05:00     | 0                 |
| 2222      | 08/04/2012     | 16:00:00     | 1                 |
| 2223      | 08/04/2012     | 15:55:00     | 0                 |
| 2224      | 08/04/2012     | 15:50:00     | 4                 |
| 2225      | 08/04/2012     | 15:45:00     | 9                 |
| 2226      | 08/04/2012     | 15:40:00     | 11                |
| 2227      | 08/04/2012     | 15:35:00     | 10                |
| 2228      | 08/04/2012     | 15:30:00     | 13                |
| 2229      | 08/04/2012     | 15:25:00     | 15                |
| 2230      | 08/04/2012     | 15:20:00     | 12                |
| 2231      | 08/04/2012     | 15:15:00     | 21                |
| 2232      | 08/04/2012     | 15:10:00     | 20                |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2233      | 08/04/2012     | 15:05:00     | 16                |
| 2234      | 08/04/2012     | 17:00:00     | 0                 |
| 2235      | 08/04/2012     | 16:55:00     | 0                 |
| 2236      | 08/04/2012     | 16:50:00     | 0                 |
| 2237      | 08/04/2012     | 16:45:00     | 0                 |
| 2238      | 08/04/2012     | 16:40:00     | 0                 |
| 2239      | 08/04/2012     | 16:35:00     | 0                 |
| 2240      | 08/04/2012     | 16:30:00     | 1                 |
| 2241      | 08/04/2012     | 16:25:00     | 0                 |
| 2242      | 08/04/2012     | 16:20:00     | 0                 |
| 2243      | 08/04/2012     | 16:15:00     | 0                 |
| 2244      | 08/04/2012     | 16:10:00     | 0                 |
| 2245      | 08/04/2012     | 16:05:00     | 0                 |
| 2246      | 08/04/2012     | 18:00:00     | 0                 |
| 2247      | 08/04/2012     | 17:55:00     | 0                 |
| 2248      | 08/04/2012     | 17:50:00     | 0                 |
| 2249      | 08/04/2012     | 17:45:00     | 0                 |
| 2250      | 08/04/2012     | 17:40:00     | 0                 |
| 2251      | 08/04/2012     | 17:35:00     | 0                 |
| 2252      | 08/04/2012     | 17:30:00     | 1                 |
| 2253      | 08/04/2012     | 17:25:00     | 0                 |
| 2254      | 08/04/2012     | 17:20:00     | 0                 |
| 2255      | 08/04/2012     | 17:15:00     | 0                 |
| 2256      | 08/04/2012     | 17:10:00     | 0                 |
| 2257      | 08/04/2012     | 17:05:00     | 0                 |
| 2258      | 08/04/2012     | 19:00:00     | 0                 |
| 2259      | 08/04/2012     | 18:55:00     | 0                 |
| 2260      | 08/04/2012     | 18:50:00     | 0                 |
| 2261      | 08/04/2012     | 18:45:00     | 0                 |
| 2262      | 08/04/2012     | 18:40:00     | 0                 |
| 2263      | 08/04/2012     | 18:35:00     | 0                 |
| 2264      | 08/04/2012     | 18:30:00     | 0                 |
| 2265      | 08/04/2012     | 18:25:00     | 0                 |
| 2266      | 08/04/2012     | 18:20:00     | 0                 |
| 2267      | 08/04/2012     | 18:15:00     | 0                 |
| 2268      | 08/04/2012     | 18:10:00     | 0                 |
| 2269      | 08/04/2012     | 18:05:00     | 0                 |
| 2270      | 08/04/2012     | 20:00:00     | 0                 |
| 2271      | 08/04/2012     | 19:55:00     | 0                 |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2272      | 08/04/2012     | 19:50:00     | 0                 |
| 2273      | 08/04/2012     | 19:45:00     | 0                 |
| 2274      | 08/04/2012     | 19:40:00     | 0                 |
| 2275      | 08/04/2012     | 19:35:00     | 0                 |
| 2276      | 08/04/2012     | 19:30:00     | 0                 |
| 2277      | 08/04/2012     | 19:25:00     | 0                 |
| 2278      | 08/04/2012     | 19:20:00     | 0                 |
| 2279      | 08/04/2012     | 19:15:00     | 0                 |
| 2280      | 08/04/2012     | 19:10:00     | 0                 |
| 2281      | 08/04/2012     | 19:05:00     | 0                 |
| 2282      | 08/04/2012     | 21:00:00     | 0                 |
| 2283      | 08/04/2012     | 20:55:00     | 0                 |
| 2284      | 08/04/2012     | 20:50:00     | 0                 |
| 2285      | 08/04/2012     | 20:45:00     | 0                 |
| 2286      | 08/04/2012     | 20:40:00     | 0                 |
| 2287      | 08/04/2012     | 20:35:00     | 0                 |
| 2288      | 08/04/2012     | 20:30:00     | 0                 |
| 2289      | 08/04/2012     | 20:25:00     | 0                 |
| 2290      | 08/04/2012     | 20:20:00     | 0                 |
| 2291      | 08/04/2012     | 20:15:00     | 0                 |
| 2292      | 08/04/2012     | 20:10:00     | 0                 |
| 2293      | 08/04/2012     | 20:05:00     | 0                 |
| 2294      | 08/04/2012     | 22:00:00     | 0                 |
| 2295      | 08/04/2012     | 21:55:00     | 0                 |
| 2296      | 08/04/2012     | 21:50:00     | 1                 |
| 2297      | 08/04/2012     | 21:45:00     | 0                 |
| 2298      | 08/04/2012     | 21:40:00     | 0                 |
| 2299      | 08/04/2012     | 21:35:00     | 1                 |
| 2300      | 08/04/2012     | 21:30:00     | 0                 |
| 2301      | 08/04/2012     | 21:25:00     | 1                 |
| 2302      | 08/04/2012     | 21:20:00     | 0                 |
| 2303      | 08/04/2012     | 21:15:00     | 0                 |
| 2304      | 08/04/2012     | 21:10:00     | 0                 |
| 2305      | 08/04/2012     | 21:05:00     | 1                 |
| 2306      | 08/04/2012     | 23:00:00     | 0                 |
| 2307      | 08/04/2012     | 22:55:00     | 0                 |
| 2308      | 08/04/2012     | 22:50:00     | 1                 |
| 2309      | 08/04/2012     | 22:45:00     | 0                 |
| 2310      | 08/04/2012     | 22:40:00     | 0                 |

**Lanjutan Lampiran 9**

| <b>No</b> | <b>Tanggal</b> | <b>Waktu</b> | <b>Hujan (mm)</b> |
|-----------|----------------|--------------|-------------------|
| 2311      | 08/04/2012     | 22:35:00     | 0                 |
| 2312      | 08/04/2012     | 22:30:00     | 0                 |
| 2313      | 08/04/2012     | 22:25:00     | 0                 |
| 2314      | 08/04/2012     | 22:20:00     | 0                 |
| 2315      | 08/04/2012     | 22:15:00     | 0                 |
| 2316      | 08/04/2012     | 22:10:00     | 0                 |
| 2317      | 08/04/2012     | 22:05:00     | 1                 |
| 2318      | 09/04/2012     | 0:00:00      | 0                 |
| 2319      | 08/04/2012     | 23:55:00     | 0                 |
| 2320      | 08/04/2012     | 23:50:00     | 0                 |
| 2321      | 08/04/2012     | 23:45:00     | 0                 |
| 2322      | 08/04/2012     | 23:40:00     | 0                 |
| 2323      | 08/04/2012     | 23:35:00     | 0                 |
| 2324      | 08/04/2012     | 23:30:00     | 0                 |
| 2325      | 08/04/2012     | 23:25:00     | 0                 |
| 2326      | 08/04/2012     | 23:20:00     | 0                 |
| 2327      | 08/04/2012     | 23:15:00     | 0                 |
| 2328      | 08/04/2012     | 23:10:00     | 0                 |
| 2329      | 08/04/2012     | 23:05:00     | 0                 |

(BBWS BENGAWAN SOLO)