

## DAFTAR PUSTAKA

- Abhas K Jha, Robin Bloch and Jessica Lamond 2012, Panduan Pengelolaan Terintegrasi untuk Risiko Banjir Perkotaan di Abad 21, Global Facility for Disaster Reduction and Recovery, Washington.
- Achmad Zubair, Roslinda Ibrahim, Ibrahim Djamaluddin, Sumarni Hamid Aly, Irwan Ridwan Rahim, Nurjannah Oktorina Abdullah. 2020. " Pengelolaan Drainase Kota Sebagai Upaya Mitigasi Banjir Kota Makassar." Makassar: Fakultas Teknik Universitas Hasanuddin.
- Adimas, Novan Dwiky dan M. Pramono Hadi. 2018. Hubungan Genangan Banjir Dengan Karakteristik Fisik Kawasan Perkotaan Yogyakarta. Jurnal. Yogyakarta: Universitas Gadjah Mada.
- Anonim. 2019. Rencana Nasional Penanggulangan Bencana 2015-2019.
- Badan Penanggulangan Bencana Daerah Kota Makassar. 2021. Data Kejadian Bencana Kota Makassar. Makassar: BPBD Kota Makassar.
- Bongi, A., Rogi, O. H. A., & Sela, R. L. E. (2020). Mitigasi Risiko Bencana Banjir di Kota Makassar. Sabua: Jurnal Lingkungan Binaan Dan Arsitektur, 9(1), 1–12.
- DAI, 2007, Panduan Pemetaan Partisipatif, Environmental Services Program, Malang.
- Direktorat Jenderal Cipta Karya Kementerian Pekerjaan Umum. 2012. Diseminasi dan Sosialisasi Keteknikan Bidang PLP: Materi Bidang Drainase. Jakarta: Direktorat Pengembangan Penyehatan Lingkungan Permukiman Direktorat Jenderal Cipta Karya Kementerian Pekerjaan Umum.
- Djafar, Muhammad Irfan, Farid Nur Mantu, and Ilham Jaya Patellongi. 2011. "Pengaruh Penyuluhan Tentang Kesiapsiagaan Bencana Banjir Terhadap Pengetahuan Dan Sikap Kepala Keluarga Di Desa Romang Tangaya Kelurahan Tamangapa Kecamatan Manggala Kota Makassar." Revista Chilena de Pediatría.
- Effendy. 2011. "Drainase Untuk Meningkatkan Kesuburan Lahan Rawa." Jurnal Teknik Sipil.
- Hanson, G. & Nilsson, A. (1986) Ground-water dams for rural-water supplies in developing countries. Groundwater, 24(4), 497–506.
- Irawan, Rahmat. 2017. Kajian Penataan Sistem Drainase Perkotaan Berdasarkan Rencana Pola Ruang (Studi Kasus: Kecamatan Praya, Kabupaten Lombok Tengah). Tesis. Surabaya: Institut Teknologi Sepuluh Nopember.
- Irwan. 2018. Arahan Pemanfaatan Ruang Berbasis

- Mitigasi Bencana Banjir di Kota Bima Kecamatan Rasanae Timur. Makassar: Universitas Islam Negeri Alauddin.
- Jha, A.K.; Bloch, R.; Lamond, J. Cities and Flooding: A Guide to Integrated Urban Flood Risk Management for the 21st Century; TheWorld Bank: Washington, DC, USA, 2012; ISBN 9780821388662
- K. Subramanya, 2008, Engineering Hydrology : Tata McGraw-Hill Publishing Company Limited; New Delhi 110 008
- Keputusan Menteri Kesehatan Republik Indonesia No. 145/MENKES/SK/I/2007 tentang Pedoman Penanggulangan Bencana Bidang Kesehatan.
- Kusumadewi, Diah Ayu, Ludfi Djakfar, dan Muh. Bisri. 2012. Arahan Spasial Teknologi Drainase Untuk Mereduksi Genangan di Sub Daerah Aliran Sungai Watu Bagian Hilir. Jurnal. Malang: Universitas Brawijaya.
- Kodoatie, 2013. Buku Rekayasa dan Manajemen Banjir Kota.
- Kodoatie dan Sjarief. 2006. Pengelolaan Sumber Daya air Terpadu. Penerbit Andi, Yogyakarta.
- Nurhamidin, Achmad Erwin, M. Ihsan Jasin, dan Fuad Halim. 2015. Analisis Sistem Drainase Kota Tondano (Studi Kasus Kompleks Kantor Bupati Minahasa). Jurnal Sipil Statik Volume 3 Nomor 9. Manado: Universitas Sam Ratulangi.
- Nurpilihan Bafdal, Kharista Amaru, Boy Macklin Pareira, 2011, Buku Ajar Sistem Informasi Geografis, Jurusan Teknik Manajemen industry Pertanian FTIP UNPAD, Bandung.
- Peraturan Menteri Pekerjaan Umum No. 12 Tahun 2014 tentang Penyelenggaraan Sistem Drainase Perkotaan.
- Peraturan Menteri Pekerjaan Umum No. 14 Tahun 2010 tentang Standar Pelayanan Minimal Bidang Pekerjaan Umum dan Penataan Ruang.
- Pujiastuti, Ratih, Suripin Suripin, and Syafrudin Syafrudin. 2016. “Pengaruh Land Subsidence Terhadap Genangan Banjir Dan Rob Di Semarang Timur.” MEDIA KOMUNIKASI TEKNIK SIPIL.
- Rahayu. Dkk. (2009). Banjir dan Upaya Penanggulangannya. Bandung : Pusat Mitigasi Bencana (PMB-ITB)
- Standar Nasional Indonesia. 1991. Tata Cara Perencanaan Umum Drainase Perkotaan. SNI 02-2406-1991.
- Sugiyono, 2016. Buku Statistika Untuk Penelitian

Suhardiman. 2012. Zonasi Tingkat Kerawanan Banjir Dengan Sistem Informasi Geografis (SIG) Pada Sub DAS Walanae Hilir. Jurnal. Makassar: Universitas Hasanuddissn.

Suripin. 2004. Sistem Drainase Yang Berkelanjutan. Yogyakarta: Andi Offset.

Standar Nasional Indonesia. 1991. Tata Cara Perencanaan Umum Drainase Perkotaan. SNI 02-2406-1991.

**Lampiran 1** Data Curah Hujan Tahun 2006 Stasiun Sultan Hasanuddin

## TAHUN 2006

[illegible]

| Tanggal             | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|---------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>15</b>           |      | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>16</b>           |      | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>17</b>           |      | 36   | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>18</b>           |      | 3    | -    | 26    | -   | -    | -    | -    | -     | -    | -    | 4    |
| <b>19</b>           |      | 72   | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>20</b>           |      | 25   | 3    | 35    | -   | 27   | -    | -    | -     | -    | -    | -    |
| <b>21</b>           |      | -    | 54   | -     | -   | -    | -    | -    | -     | -    | -    | 30   |
| <b>22</b>           |      | 20   | -    | 67    | -   | -    | -    | -    | -     | -    | 6    | -    |
| <b>23</b>           |      | 43   | -    | -     | -   | -    | 2    | -    | -     | -    | -    | 18   |
| <b>24</b>           |      | 24   | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>25</b>           |      | 40   | -    | 39    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>26</b>           |      | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 8    |
| <b>27</b>           |      | 98   | 102  | -     | -   | -    | -    | -    | -     | -    | 1    | -    |
| <b>28</b>           |      | 39   | 3    | -     | -   | -    | -    | -    | -     | -    | 7    | -    |
| <b>29</b>           |      |      | 8    | -     | -   | -    | -    | -    | -     | -    | -    | 14   |
| <b>30</b>           |      |      | 6    | -     | -   | -    | -    | -    | -     | -    | -    | 107  |
| <b>31</b>           |      |      | 3    |       | -   |      | -    | -    |       | -    |      | 42   |
| <b>Jml.Perbulan</b> |      | 458  | 408  | 327   | 30  | 49   | 6    | -    | -     | -    | 14   | 254  |

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml hari hujan</b> |      | 14   | 14   | 10    | 1   | 4    | 2    | -    | -     | -    | 3    | 12   |
| <b>Hujan Max</b>      |      | 98   | 102  | 67    | 30  | 27   | 4    | -    | -     | -    | 7    | 107  |
| <b>Hujan Min</b>      |      | 3    | 3    | 4     | 30  | 4    | 2    | -    | -     | -    | 1    | 2    |
| <b>Rata-rata</b>      |      | 33   | 29   | 33    | 30  | 12   | 3    | -    | -     | -    | 5    | 21   |

**Lampiran 2** Data Curah Hujan Tahun 2007 Stasiun Sultan Hasanuddin

## TAHUN 2007

| <b>Tanggal</b> | <b>Jan.</b> | <b>Peb.</b> | <b>Mar.</b> | <b>April</b> | <b>Mei</b> | <b>Juni</b> | <b>Juli</b> | <b>Agt.</b> | <b>Sept.</b> | <b>Okt.</b> | <b>Nop.</b> | <b>Des.</b> |
|----------------|-------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| <b>1</b>       | 99          | 57          | 1           | -            |            |             |             | -           | -            | -           | 2           | -           |
| <b>2</b>       | 101         | 98          | -           | -            |            |             |             | -           | -            | -           | -           | 9           |
| <b>3</b>       | 80          | 83          | -           | -            |            |             |             | -           | -            | -           | -           | 10          |
| <b>4</b>       | 40          | 10          | -           | 5            |            |             |             | -           | -            | -           | -           | 4           |
| <b>5</b>       | 3           | 7           | 2           | -            |            |             |             | -           | -            | -           | -           | 6           |
| <b>6</b>       | -           | 40          | -           | -            |            |             |             | -           | -            | -           | -           | 1           |
| <b>7</b>       | -           | -           | -           | -            |            |             |             | -           | -            | -           | 3           | 3           |
| <b>8</b>       | -           | 31          | -           | -            |            |             |             | -           | -            | -           | 2           | 4           |
| <b>9</b>       | -           | 26          | 3           | 2            |            |             |             | -           | -            | -           | 5           | 8           |
| <b>10</b>      | -           | -           | -           | -            |            |             |             | -           | -            | -           | -           | 7           |
| <b>11</b>      | -           | -           | -           | 11           |            |             |             | -           | -            | -           | -           | 15          |
| <b>12</b>      | 1           | -           | -           | -            |            |             |             | -           | -            | -           | -           | 11          |
| <b>13</b>      | 3           | -           | 1           | -            |            |             |             | -           | -            | -           | -           | 22          |
| <b>14</b>      | 4           | -           | 2           | -            |            |             |             | -           | -            | -           | -           | 2           |
| <b>15</b>      | 7           | -           | -           | -            |            |             |             | -           | -            | -           | -           | -           |

## TAHUN 2007

| <b>Tanggal</b> | <b>Jan.</b> | <b>Peb.</b> | <b>Mar.</b> | <b>April</b> | <b>Mei</b> | <b>Juni</b> | <b>Juli</b> | <b>Agt.</b> | <b>Sept.</b> | <b>Okt.</b> | <b>Nop.</b> | <b>Des.</b> |
|----------------|-------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| <b>16</b>      | 11          | -           | 3           | 8            |            |             |             | -           | -            | -           | -           | 13          |
| <b>17</b>      | 8           | 20          | -           | -            |            |             |             | -           | -            | -           | -           | 4           |
| <b>18</b>      | 5           | -           | -           | 4            |            |             |             | -           | -            | -           | 7           | 80          |
| <b>19</b>      | 22          | -           | -           | -            |            |             |             | -           | -            | -           | 7           | 96          |
| <b>20</b>      | -           | 5           | -           | 4            |            |             |             | -           | -            | -           | 18          | 120         |
| <b>21</b>      | -           | -           | -           | -            |            |             |             | -           | -            | -           | -           | 70          |
| <b>22</b>      | 6           | -           | 4           | 5            |            |             |             | -           | -            | -           | -           | 21          |
| <b>23</b>      | -           | 1           | 12          | -            |            |             |             | -           | -            | -           | -           | 27          |
| <b>24</b>      | 13          | -           | 6           | 2            |            |             |             | -           | -            | -           | 9           | 3           |
| <b>25</b>      | 12          | -           | -           | 3            |            |             |             | -           | -            | -           | -           | 80          |
| <b>26</b>      | -           | -           | 32          | 6            |            |             |             | -           | -            | -           | -           | 63          |
| <b>27</b>      | -           | -           | -           | 26           |            |             |             | -           | -            | -           | 16          | 40          |
| <b>28</b>      | 17          | -           | -           | -            |            |             |             | -           | -            | -           | -           | 44          |
| <b>29</b>      | 19          |             | -           | -            |            |             |             | -           | -            | -           | 21          | -           |
| <b>30</b>      | 20          |             | -           | -            |            |             |             | -           | -            | -           | 19          | 27          |
| <b>31</b>      | 70          |             | -           |              |            |             |             | -           |              | -           |             | 26          |



## TAHUN 2007

| <b>Tanggal</b>        | <b>Jan.</b> | <b>Peb.</b> | <b>Mar.</b> | <b>April</b> | <b>Mei</b> | <b>Juni</b> | <b>Juli</b> | <b>Agt.</b> | <b>Sept.</b> | <b>Okt.</b> | <b>Nop.</b> | <b>Des.</b> |
|-----------------------|-------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| <b>Jml.Perbulan</b>   | 541         | 378         | 66          | 76           |            |             |             | -           | -            | -           | 109         | 816         |
| <b>Jml hari hujan</b> | 20          | 11          | 10          | 11           |            |             |             | -           | -            | -           | 11          | 28          |
| <b>Hujan Max</b>      | 101         | 98          | 32          | 26           |            |             |             | -           | -            | -           | 21          | 120         |
| <b>Hujan Min</b>      | 1           | 1           | 1           | 2            |            |             |             | -           | -            | -           | 2           | 1           |
| <b>Rata-rata</b>      | 27          | 34          | 7           | 7            |            |             |             | -           | -            | -           | 10          | 29          |

### Lampiran 3 Data Curah Hujan Tahun 2008 Stasiun Sultan Hasanuddin

## TAHUN 2008

[illegible]

## TAHUN 2008

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>16</b> | 35   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>17</b> | 52   | 70   | -    | -     | -   | 4    | -    | -    | -     | -    | 2    | 25   |
| <b>18</b> | 43   | 20   | -    | -     | -   | -    | -    | -    | -     | -    | 5    | 66   |
| <b>19</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | 3    | 68   |
| <b>20</b> | 16   | 36   | -    | -     | -   | -    | -    | -    | -     | -    | -    | 76   |
| <b>21</b> | -    | 35   | -    | -     | -   | -    | -    | -    | -     | 2    | 7    | 21   |
| <b>22</b> | -    | 60   | 20   | -     | -   | -    | -    | -    | -     | -    | -    | 8    |
| <b>23</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 20   |
| <b>24</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | 22   | -    |
| <b>25</b> | -    | 11   | 24   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>26</b> | -    | 16   | -    | -     | -   | -    | -    | -    | -     | -    | 25   | 31   |
| <b>27</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | 10   | 18   | -    |
| <b>28</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>29</b> | -    | 6    | -    | -     | 7   | -    | -    | -    | -     | -    | -    | 8    |
| <b>30</b> | 3    |      | -    | -     | -   | -    | -    | -    | -     | -    | -    | 50   |
| <b>31</b> | -    |      | 57   |       | -   |      | -    | -    |       | -    |      | 82   |

## TAHUN 2008

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml.Perbulan</b>   | 550  | 834  | 409  | -     | 41  | 34   | 6    | -    | -     | 90   | 193  | 654  |
| <b>Jml hari hujan</b> | 17   | 19   | 11   | -     | 3   | 3    | 2    | -    | -     | 6    | 14   | 20   |
| <b>Hujan Max</b>      | 89   | 137  | 94   | -     | 20  | 25   | 4    | -    | -     | 36   | 35   | 82   |
| <b>Hujan Min</b>      | 2    | 6    | 1    | -     | 7   | 4    | 2    | -    | -     | 2    | 2    | 2    |
| <b>Rata-rata</b>      | 32   | 44   | 37   | -     | 14  | 11   | 3    | -    | -     | 15   | 14   | 33   |

**Lampiran 4** Data Curah Hujan Tahun 2009 Stasiun Sultan Hasanuddin

## TAHUN 2009

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | 72   | 15   | 5    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>2</b>  | 20   | 53   | 3    | 2     | -   | -    | 2    | -    |       | -    | -    | 44   |
| <b>3</b>  | 21   | 82   | -    | -     | -   | -    | -    | -    |       | -    | -    | 53   |
| <b>4</b>  | -    | 6    | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>5</b>  | 10   | 52   | -    | 2     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>6</b>  | 2    | 9    | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>7</b>  | 26   | 70   | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>8</b>  | 90   | -    | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>9</b>  | 70   | -    | 2    | -     | -   | -    | -    | -    |       | -    | -    | 10   |
| <b>10</b> | 61   | -    | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>11</b> | 90   | 10   | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>12</b> | 22   | 10   | -    | -     | -   | -    | -    | -    |       | -    | -    | 24   |
| <b>13</b> | 34   | 11   | -    | -     | -   | -    | -    | -    |       | -    | -    | 7    |
| <b>14</b> | 82   | -    | 6    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>15</b> | 27   | -    | 8    | -     | -   | -    | -    | -    |       | -    | -    | 43   |

## TAHUN 2009

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>16</b> | 35   | 22   | -    | -     | -   | -    | -    | -    |       | -    | -    | 54   |
| <b>17</b> | 90   | 27   | 15   | -     | -   | -    | -    | -    |       | -    | -    | 63   |
| <b>18</b> | 60   | 7    | 20   | -     | -   | -    | -    | -    |       | -    | -    | 50   |
| <b>19</b> | 65   | -    | 23   | 8     | -   | -    | -    | -    |       | -    | -    | 40   |
| <b>20</b> | 28   | -    | 13   | 2     | -   | -    | -    | -    |       | -    | -    | 79   |
| <b>21</b> | 30   | -    | -    | -     | -   | -    | -    | -    |       | -    | -    | 27   |
| <b>22</b> | -    | 46   | -    | 2     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>23</b> | -    | 11   | 2    | 1     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>24</b> | 19   | 22   | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>25</b> | -    | 43   | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>26</b> | -    | 42   | -    | -     | -   | -    | -    | -    |       | -    | -    | 6    |
| <b>27</b> | 30   | 40   | -    | -     | -   | -    | -    | -    |       | -    | -    | 5    |
| <b>28</b> | 60   | 36   | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>29</b> | 17   |      | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>30</b> | 15   |      | -    | -     | -   | -    | -    | -    |       | -    | -    | -    |
| <b>31</b> | 40   |      | -    |       | -   |      | -    | -    |       | -    |      | -    |

## TAHUN 2009

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml.Perbulan</b>   | 1116 | 614  | 97   | 17    | -   | -    | 2    | -    |       | -    | -    | 505  |
| <b>Jml hari hujan</b> | 26   | 20   | 10   | 6     | -   | -    | 1    | -    |       | -    | -    | 14   |
| <b>Hujan Max</b>      | 90   | 82   | 23   | 8     | -   | -    | 2    | -    |       | -    | -    | 79   |
| <b>Hujan Min</b>      | 2    | 6    | 2    | 1     | -   | -    | 2    | -    |       | -    | -    | 5    |
| <b>Rata-rata</b>      | 43   | 31   | 10   | 3     | -   | -    | 2    | -    |       | -    | -    | 36   |

**Lampiran 5** Data Curah Hujan Tahun 2010 Stasiun Sultan Hasanuddin**TAHUN 2010**

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | -    | -    | -    | 33    | -   | -    | -    | -    | -     | -    | -    | 2    |
| <b>2</b>  | -    | 11   | -    | -     | 4   | -    | -    | -    | -     | -    | 32   | 5    |
| <b>3</b>  | 2    | 12   | -    | -     | -   | -    | -    | -    | -     | -    | 34   | 13   |
| <b>4</b>  | 1    | 9    | 50   | 2     | -   | -    | -    | -    | -     | -    | 48   | -    |
| <b>5</b>  | 38   | -    | -    | -     | 3   | -    | 16   | -    | 2     | -    | -    | 16   |
| <b>6</b>  | 40   | 20   | -    | -     | 20  | -    | -    | 0    | 59    | -    | 50   | 10   |
| <b>7</b>  | 77   | 14   | -    | -     | 2   | -    | -    | 3    | 74    | -    | 26   | 8    |
| <b>8</b>  | 5    | -    | -    | -     | 1   | 5    | -    | -    | -     | -    | -    | 22   |
| <b>9</b>  | 29   | -    | 18   | 36    | 9   | -    | -    | -    | -     | -    | 37   | 23   |
| <b>10</b> | 14   | -    | -    | -     | 25  | -    | -    | -    | -     | -    | 15   | -    |
| <b>11</b> | 40   | 34   | 66   | -     | -   | 42   | -    | 2    | -     | -    | 32   | 30   |
| <b>12</b> | 11   | 60   | 10   | 13    | 50  | -    | 5    | -    | -     | -    | 16   | 39   |
| <b>13</b> | 13   | -    | -    | 17    | 40  | -    | -    | -    | -     | -    | -    | -    |
| <b>14</b> | 80   | -    | -    | -     | 7   | -    | -    | 2    | -     | -    | 24   | 10   |
| <b>15</b> | 11   | 13   | -    | -     | 16  | 30   | -    | -    | -     | -    | 7    | -    |



## TAHUN 2010

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>16</b> | -    | -    | -    | -     | -   | -    | -    | 11   | -     | -    | 43   | -    |
| <b>17</b> | 62   | 2    | -    | 10    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>18</b> | 12   | 1    | -    | 37    | -   | -    | 2    | -    | 10    | -    | 23   | -    |
| <b>19</b> | 50   | -    | -    | -     | -   | -    | -    | 7    | -     | 2    | 20   | 10   |
| <b>20</b> | 50   | 13   | -    | 43    | -   | 29   | -    | -    | -     | 0    | 44   | 28   |
| <b>21</b> | 80   | 2    | 47   | 33    | -   | -    | -    | -    | -     | -    | 10   | 22   |
| <b>22</b> | 25   | -    | -    | -     | 20  | -    | -    | 2    | -     | 3    | 8    | -    |
| <b>23</b> | -    | -    | -    | -     | 18  | -    | -    | -    | 3     | -    | -    | -    |
| <b>24</b> | -    | -    | -    | -     | -   | 24   | 8    | 8    | -     | -    | -    | 20   |
| <b>25</b> | 2    | 1    | 25   | -     | -   | 11   | -    | -    | -     | 6    | -    | 15   |
| <b>26</b> | 3    | 36   | -    | 30    | 22  | -    | 11   | -    | -     | 11   | -    | 30   |
| <b>27</b> | -    | 2    | -    | 10    | -   | 9    | -    | -    | -     | 60   | 7    | 31   |
| <b>28</b> | 6    | -    | 45   | -     | 22  | -    | -    | -    | -     | -    | 12   | 18   |
| <b>29</b> | 9    |      | 44   | 39    | -   | -    | -    | 3    | 7     | -    | 30   | 69   |
| <b>30</b> | -    |      | -    | -     | -   | -    | 2    | -    | -     | 2    | 30   | 11   |
| <b>31</b> | 43   |      | 21   |       | 5   |      | -    | -    |       | 9    |      | 7    |

## TAHUN 2010

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml.Perbulan</b>   | 703  | 230  | 326  | 303   | 264 | 150  | 44   | 38   | 155   | 93   | 548  | 439  |
| <b>Jml hari hujan</b> | 24   | 15   | 9    | 12    | 16  | 7    | 6    | 9    | 6     | 8    | 21   | 22   |
| <b>Hujan Max</b>      | 80   | 60   | 66   | 43    | 50  | 42   | 16   | 11   | 74    | 60   | 50   | 69   |
| <b>Hujan Min</b>      | 1    | 1    | 10   | 2     | 1   | 5    | 2    | 0    | 2     | 0    | 7    | 2    |
| <b>Rata-rata</b>      | 29   | 15   | 36   | 25    | 17  | 21   | 7    | 4    | 26    | 12   | 26   | 20   |

**Lampiran 6** Data Curah Hujan Tahun 2011 Stasiun Sultan Hasanuddin**TAHUN 2011**

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | -    | 65   | 71   | 39    | 14  | -    | -    | -    | -     | -    | 5    | -    |
| <b>2</b>  | -    | 13   | 45   | 90    | 21  | -    | -    | -    | -     | -    | 2    | 31   |
| <b>3</b>  | -    | 14   | 8    | 97    | 19  | -    | -    | -    | -     | -    | -    | -    |
| <b>4</b>  | -    | 22   | -    | 73    | 2   | -    | -    | -    | -     | -    | 11   | 20   |
| <b>5</b>  | -    | -    | -    | 4     | -   | -    | -    | -    | -     | -    | -    | 9    |
| <b>6</b>  | 2    | -    | -    | -     | -   | -    | -    | -    | -     | -    | 42   | 22   |
| <b>7</b>  | -    | -    | -    | -     | 12  | -    | -    | -    | -     | -    | 15   | 15   |
| <b>8</b>  | 115  | 12   | -    | 40    | -   | -    | -    | -    | -     | -    | 13   | -    |
| <b>9</b>  | -    | -    | 6    | -     | -   | -    | -    | -    | -     | -    | -    | 10   |
| <b>10</b> | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | 12   | 10   |
| <b>11</b> | 3    | 6    | 29   | 94    | -   | -    | -    | -    | -     | -    | 16   | 7    |
| <b>12</b> | 92   | -    | 32   | 33    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>13</b> | 97   | -    | 11   | -     | -   | -    | 7    | -    | -     | 3    | 5    | -    |
| <b>14</b> | 20   | -    | 19   | 17    | -   | -    | -    | -    | -     | -    | 5    | -    |

| Tanggal             | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|---------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>15</b>           | 21   | -    | 66   | -     | -   | -    | -    | 2    | -     | -    | 7    | 42   |
| <b>16</b>           | 76   | -    | -    | -     | -   | -    | -    | 6    | -     | -    | 15   | -    |
| <b>17</b>           | 29   | -    | -    | 9     | -   | -    | -    | -    | -     | -    | -    | 36   |
| <b>18</b>           | -    | 2    | -    | 3     | -   | -    | -    | -    | -     | -    | -    | 70   |
| <b>19</b>           | -    | -    | 22   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>20</b>           | 118  | -    | -    | 16    | -   | -    | -    | -    | -     | -    | 14   | -    |
| <b>21</b>           | 19   | 7    | -    | -     | -   | -    | -    | -    | -     | -    | 7    | -    |
| <b>22</b>           | -    | 5    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 11   |
| <b>23</b>           | 31   | 1    | 85   | -     | -   | -    | -    | -    | -     | -    | 9    | 30   |
| <b>24</b>           | -    | 10   | -    | -     | -   | -    | -    | -    | -     | -    | 30   | 55   |
| <b>25</b>           | -    | 8    | 40   | -     | -   | -    | -    | -    | -     | -    | 42   | 24   |
| <b>26</b>           | 31   | 7    | 50   | 5     | -   | -    | -    | -    | -     | -    | 9    | 112  |
| <b>27</b>           | -    | 15   | 55   | -     | -   | -    | -    | -    | -     | 5    | 30   | 120  |
| <b>28</b>           | -    | 78   | 45   | -     | -   | -    | -    | -    | -     | -    | -    | 20   |
| <b>29</b>           | 2    |      | 105  | 8     | -   | -    | -    | -    | -     | -    | 45   | 7    |
| <b>30</b>           | -    |      | -    | 22    | 20  | -    | -    | -    | -     | 19   | 26   | 18   |
| <b>31</b>           | -    |      | -    |       | 37  |      | -    | -    |       | -    |      | 2    |
| <b>Jml.Perbulan</b> | 656  | 265  | 689  | 550   | 125 | -    | 7    | 8    | -     | 27   | 360  | 671  |

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml hari hujan</b> | 14   | 15   | 16   | 15    | 7   | -    | 1    | 2    | -     | 3    | 21   | 21   |
| <b>Hujan Max</b>      | 118  | 78   | 105  | 97    | 37  | -    | 7    | 6    | -     | 19   | 45   | 120  |
| <b>Hujan Min</b>      | 2    | 1    | 6    | 3     | 2   | -    | 7    | 2    | -     | 3    | 2    | 2    |
| <b>Rata-rata</b>      | 47   | 18   | 43   | 37    | 18  | -    | 7    | 4    | -     | 9    | 17   | 32   |

**Lampiran 7** Data Curah Hujan Tahun 2012 Stasiun Sultan Hasanuddin**TAHUN 2012**

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | 4    | 30   | -    | -     | -   | -    | -    | -    | -     | -    | -    | 1    |
| <b>2</b>  | 26   | 118  | -    | -     | 7   | -    | -    | -    | -     | -    | -    | -    |
| <b>3</b>  | 36   | 80   | 2    | 19    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>4</b>  | 9    | 9    | 15   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>5</b>  | 10   | 2    | 29   | -     | 39  | -    | -    | -    | -     | -    | -    | 24   |
| <b>6</b>  | 0    | 3    | 10   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>7</b>  | 5    | 8    | -    | -     | 12  | 2    | 2    | -    | -     | -    | -    | 18   |
| <b>8</b>  | -    | 13   | -    | -     | -   | 11   | -    | -    | -     | -    | -    | 16   |
| <b>9</b>  | -    | 18   | 9    | 2     | 10  | 8    | -    | -    | -     | -    | -    | 20   |
| <b>10</b> | 60   | 15   | 21   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>11</b> | 5    | 47   | -    | -     | -   | 2    | -    | -    | -     | 6    | -    | 20   |
| <b>12</b> | 12   | -    | 25   | -     | -   | 27   | -    | -    | -     | -    | 8    | -    |
| <b>13</b> | 8    | -    | 5    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>14</b> | 11   | 9    | 60   | -     | 13  | -    | -    | -    | -     | -    | -    | 12   |

| Tanggal             | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|---------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>15</b>           | 9    | -    | 67   | 40    | 12  | -    | -    | -    | -     | -    | -    | -    |
| <b>16</b>           | -    | -    | 10   | 20    | -   | -    | -    | -    | -     | -    | -    | 44   |
| <b>17</b>           | -    | 36   | -    | -     | -   | -    | -    | -    | -     | 6    | 4    | -    |
| <b>18</b>           | -    | -    | -    | -     | -   | 7    | -    | -    | -     | -    | -    | -    |
| <b>19</b>           | -    | 5    | -    | -     | -   | 7    | -    | -    | -     | -    | -    | -    |
| <b>20</b>           | -    | 10   | 10   | 16    | -   | 13   | -    | -    | -     | -    | -    | 40   |
| <b>21</b>           | 33   | -    | -    | -     | -   | 9    | -    | -    | -     | -    | -    | -    |
| <b>22</b>           | 49   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>23</b>           | 16   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>24</b>           | -    | -    | 3    | -     | -   | -    | -    | -    | -     | -    | 5    | 85   |
| <b>25</b>           | -    | -    | 15   | 14    | -   | -    | -    | -    | -     | -    | -    | 52   |
| <b>26</b>           | 6    | -    | -    | 32    | -   | -    | -    | -    | -     | -    | -    | 23   |
| <b>27</b>           | -    | 10   | -    | -     | -   | -    | -    | -    | -     | -    | -    | 10   |
| <b>28</b>           | -    | 7    | 40   | 10    | -   | -    | -    | -    | -     | 2    | 7    | 7    |
| <b>29</b>           | -    |      | 35   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>30</b>           | 52   |      | 20   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>31</b>           | 27   |      | -    |       | -   |      | -    | -    |       | -    |      | 72   |
| <b>Jml.Perbulan</b> | 378  | 420  | 376  | 153   | 93  | 86   | 2    | -    | -     | 14   | 24   | 444  |

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml hari hujan</b> | 19   | 17   | 17   | 8     | 6   | 9    | 1    | -    | -     | 3    | 4    | 15   |
| <b>Hujan Max</b>      | 60   | 118  | 67   | 40    | 39  | 27   | 2    | -    | -     | 6    | 8    | 85   |
| <b>Hujan Min</b>      | 0    | 2    | 2    | 2     | 7   | 2    | 2    | -    | -     | 2    | 4    | 1    |
| <b>Rata-rata</b>      | 20   | 25   | 22   | 19    | 16  | 10   | 2    | -    | -     | 5    | 6    | 30   |



**Lampiran 8** Data Curah Hujan Tahun 201 Stasiun Sultan Hasanuddin**TAHUN 2013**

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | 80   | 20   | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>2</b>  | 72   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 7    |
| <b>3</b>  | 75   | -    | -    | -     | -   | 3    | -    | -    | -     | -    | -    | 2    |
| <b>4</b>  | 23   | -    | -    | 4     | -   | -    | -    | -    | -     | -    | -    | 6    |
| <b>5</b>  | 20   | -    | 30   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>6</b>  | 18   | -    | 24   | 7     | -   | 48   | 8    | -    | -     | -    | -    | 13   |
| <b>7</b>  | 43   | -    | 36   | -     | -   | 50   | 51   | -    | -     | -    | -    | -    |
| <b>8</b>  | 90   | -    | 40   | 10    | -   | 10   | 12   | -    | -     | -    | -    | 30   |
| <b>9</b>  | 30   | -    | -    | -     | -   | 15   | -    | -    | -     | -    | -    | -    |
| <b>10</b> | 40   | -    | 25   | -     | -   | 40   | -    | -    | -     | -    | -    | 98   |
| <b>11</b> | 2    | -    | 27   | -     | -   | 25   | -    | -    | -     | -    | -    | -    |
| <b>12</b> | 20   | -    | 10   | -     | -   | 56   | 11   | -    | -     | -    | -    | -    |
| <b>13</b> | 25   | -    | 24   | 6     | 8   | 60   | -    | -    | -     | -    | 5    | -    |
| <b>14</b> | 28   | -    | 32   | -     | 15  | 25   | -    | -    | -     | -    | -    | 70   |

| Tanggal             | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|---------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>15</b>           | 36   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 25   |
| <b>16</b>           | 18   | 15   | -    | 15    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>17</b>           | 5    | 40   | 15   | 3     | -   | -    | -    | -    | -     | -    | 10   | -    |
| <b>18</b>           | 8    | 97   | -    | -     | 7   | 35   | 28   | -    | -     | -    | -    | -    |
| <b>19</b>           | 10   | 92   | -    | 67    | -   | -    | -    | -    | -     | -    | 80   | 4    |
| <b>20</b>           | 40   | 50   | -    | 83    | 13  | -    | -    | -    | -     | -    | -    | 2    |
| <b>21</b>           | 27   | 60   | 40   | -     | 6   | -    | -    | -    | -     | -    | -    | 13   |
| <b>22</b>           | 31   | 58   | -    | -     | 30  | -    | -    | -    | -     | -    | -    | 60   |
| <b>23</b>           | 20   | 50   | -    | -     | -   | -    | 3    | 9    | -     | -    | -    | 78   |
| <b>24</b>           | 25   | 28   | -    | -     | -   | -    | -    | -    | -     | -    | 20   | 50   |
| <b>25</b>           | 10   | -    | -    | -     | -   | -    | -    | -    | -     | -    | 15   | 88   |
| <b>26</b>           | 40   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 21   |
| <b>27</b>           | 4    | 27   | -    | -     | -   | -    | -    | -    | -     | -    | 7    | -    |
| <b>28</b>           | 6    | 16   | -    | 27    | 7   | 4    | -    | -    | -     | -    | -    | 46   |
| <b>29</b>           | 25   |      | -    | -     | -   | 4    | -    | -    | -     | -    | -    | -    |
| <b>30</b>           | -    |      | -    | -     | -   | 9    | -    | -    | -     | -    | 40   | 25   |
| <b>31</b>           | -    |      | -    |       | 52  |      | -    | -    |       | -    |      | 80   |
| <b>Jml.Perbulan</b> | 871  | 553  | 303  | 222   | 138 | 384  | 113  | 9    | -     | -    | 177  | 718  |

| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml hari hujan</b> | 29   | 12   | 11   | 9     | 8   | 14   | 6    | 1    | -     | -    | 7    | 19   |
| <b>Hujan Max</b>      | 90   | 97   | 40   | 83    | 52  | 60   | 51   | 9    | -     | -    | 80   | 98   |
| <b>Hujan Min</b>      | 2    | 15   | 10   | 3     | 6   | 3    | 3    | 9    | -     | -    | 5    | 2    |
| <b>Rata-rata</b>      | 30   | 46   | 28   | 25    | 17  | 27   | 19   | 9    | -     | -    | 25   | 38   |

### Lampiran 9 Data Curah Hujan Tahun 2014 Stasiun Sultan Hasanuddin

## TAHUN 2014

[illegible]





**Lampiran 10** Data Curah Hujan Tahun 2015 Stasiun Sultan Hasanuddin**TAHUN 2015**

| Tanggal   | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>1</b>  | 26   | 18   | 15   | 12    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>2</b>  | 38   | 20   | 15   | 2     | -   | -    | -    | -    | -     | -    | -    | 8    |
| <b>3</b>  | 110  | 12   | 137  | 31    | 10  | -    | -    | -    | -     | -    | -    | -    |
| <b>4</b>  | 100  | 70   | 47   | 26    | -   | 12   | -    | -    | -     | -    | -    | 9    |
| <b>5</b>  | 56   | 14   | 4    | 49    | 40  | -    | -    | -    | -     | -    | -    | 7    |
| <b>6</b>  | 60   | 12   | 28   | 18    | 20  | -    | -    | -    | -     | -    | -    | 5    |
| <b>7</b>  | 50   | 8    | 38   | -     | -   | 4    | -    | -    | -     | -    | -    | -    |
| <b>8</b>  | 55   | 10   | -    | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>9</b>  | 52   | 16   | -    | -     | -   | -    | -    | -    | -     | -    | 5    | 3    |
| <b>10</b> | 20   | 17   | -    | -     | -   | -    | -    | -    | -     | -    | -    | 4    |
| <b>11</b> | 35   | 30   | -    | 17    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>12</b> | 15   | 36   | -    | 26    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>13</b> | -    | 70   | -    | 53    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>14</b> | -    | -    | -    | -     | 2   | -    | -    | -    | -     | -    | -    | -    |

| Tanggal             | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|---------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>15</b>           | 25   | 20   | -    | -     | -   | -    | -    | -    | -     | -    | 10   | -    |
| <b>16</b>           | 27   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 120  |
| <b>17</b>           | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | 26   | 137  |
| <b>18</b>           | 8    | 7    | -    | -     | -   | -    | -    | -    | -     | -    | 28   | 140  |
| <b>19</b>           | 40   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 142  |
| <b>20</b>           | 50   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 138  |
| <b>21</b>           | -    | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 70   |
| <b>22</b>           | -    | -    | 30   | -     | -   | -    | -    | -    | -     | -    | -    | 23   |
| <b>23</b>           | 25   | 30   | 27   | -     | -   | -    | -    | -    | -     | -    | -    | 2    |
| <b>24</b>           | 60   | -    | 22   | -     | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>25</b>           | 5    | -    | -    | 10    | -   | -    | -    | -    | -     | -    | -    | 10   |
| <b>26</b>           | 40   | -    | -    | 18    | -   | -    | -    | -    | -     | -    | -    | -    |
| <b>27</b>           | -    | -    | -    | 33    | 2   | -    | -    | -    | -     | -    | -    | -    |
| <b>28</b>           | 40   | -    | -    | -     | -   | -    | -    | -    | -     | -    | -    | 28   |
| <b>29</b>           | 63   | 0    | 25   | -     | -   | -    | -    | -    | -     | -    | -    | 21   |
| <b>30</b>           | 30   |      | 17   | -     | -   | -    | -    | -    | -     | -    | 42   | -    |
| <b>31</b>           | 22   |      | 40   |       | -   |      | -    | -    |       | -    |      | 25   |
| <b>Jml.Perbulan</b> | 1052 | 390  | 445  | 295   | 74  | 16   | -    | -    | -     | -    | 111  | 892  |



| Tanggal               | Jan. | Peb. | Mar. | April | Mei | Juni | Juli | Agt. | Sept. | Okt. | Nop. | Des. |
|-----------------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|
| <b>Jml hari hujan</b> | 25   | 16   | 13   | 12    | 5   | 2    | -    | -    | -     | -    | 5    | 18   |
| <b>Hujan Max</b>      | 110  | 70   | 137  | 53    | 40  | 12   | -    | -    | -     | -    | 42   | 142  |
| <b>Hujan Min</b>      | 5    | 7    | 4    | 2     | 2   | 4    | -    | -    | -     | -    | 5    | 2    |
| <b>Rata-rata</b>      | 42   | 24   | 34   | 25    | 15  | 8    | -    | -    | -     | -    | 22   | 50   |

## Lampiran 11 Contoh Kuisisioner Wawancara

### A. IDENTITAS RESPONDEN

| No | Pernyataan                        | Jawaban                                                                                                                  |
|----|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 2  | Dusun/RW/RT                       |                                                                                                                          |
| 3  | Nama Responden                    |                                                                                                                          |
|    | Kategori                          | <input type="checkbox"/> Perumahan<br><input type="checkbox"/> RS/Klinik/Puskesmas<br><input type="checkbox"/> Pertokoan |
| 4  | Jenis Kelamin Responden           | <input type="checkbox"/> Laki-laki<br><input type="checkbox"/> Perempuan                                                 |
| 5  | Umur Responden                    |                                                                                                                          |
| 6  | Pekerjaan responden               |                                                                                                                          |
| 7. | Lama tinggal di Kelurahan Sudiang |                                                                                                                          |
| 8. | Dampak yang diterima              | Terdampak langsung<br>Tidak terdampak langsung                                                                           |

### B. PERTANYAAN

| No | Pernyataan                                                                                         | Jawaban                                   |
|----|----------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1  | Apakah dilokasi Anda sering terjadi banjir ketika musim hujan? Jika ya, berapa kali dalam setahun? | a. 1-2 kali<br>b. 2-3 kali<br>c. >3 kali  |
| 2  | Berapa lama genangan terjadi saat terjadi banjir?                                                  | a. 1-2 hari<br>b. 3-4 hari<br>c. >5 hari  |
| 3  | Jika rumah anda pernah terdampak banjir, bagaimana ketinggian genangan di lingkungan sekitar Anda? | a. 20-50 cm<br>b. 50-100 cm<br>c. >100 cm |
| 4  | Darimana sumber air bersih Anda?                                                                   | a. Air tanah<br>b. PDAM                   |
| 5  | Berapa kedalaman sumur bor anda?                                                                   | a. 15-50m<br>b. 60-100m<br>c. >100m       |
| 6  | Bagaimana kualitas air bersih di Kelurahan Sudiang saat banjir?                                    | a. Baik<br>b. Buruk                       |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.  | Darimana sumber air bersih Anda jika sumber air terkontaminasi saat banjir?                                                                                                                                                                                                                                                                                                                                                     | a. Pdam<br>b. Lainnya (sebutkan)                                                                                                                                                                      |
| 8.  | Apakah Anda mengalami kesulitan mendapatkan air bersih selama banjir/setelah banjir?                                                                                                                                                                                                                                                                                                                                            | a. Ya<br>b. Tidak                                                                                                                                                                                     |
| 9.  | Apakah Anda atau anggota keluarga pernah mengalami masalah kesehatan saat banjir/pasca banjir?                                                                                                                                                                                                                                                                                                                                  | a. Ya<br>b. Tidak                                                                                                                                                                                     |
| 10. | Jika Anda menjawab "Ya" pada pertanyaan sebelumnya, mohon jelaskan jenis dampak kesehatan yang dialami (bisa pilih lebih dari satu):<br>a. Infeksi saluran pernapasan (ISPA)<br>b. Diare atau gangguan pencernaan lainnya<br>c. Luka atau cedera fisik<br>d. Gangguan kulit (misalnya dermatitis atau alergi kulit)<br>e. Masalah kesehatan mental (stres, cemas, atau depresi)<br>f. Penyakit menular lainnya (sebutkan)       |                                                                                                                                                                                                       |
| 11. | Bagaimana akses terhadap pelayanan kesehatan selama dan setelah banjir di Kelurahan Sudiang?                                                                                                                                                                                                                                                                                                                                    | a. Mudah, fasilitas kesehatan tetap berfungsi dengan baik<br>b. Sulit, fasilitas kesehatan terdampak dan sulit dijangkau<br>c. Tidak ada fasilitas kesehatan yang tersedia selama atau setelah banjir |
| 12. | Apa saja yang biasanya terjadi ketika banjir terjadi di lingkungan sekitar rumah Anda selama dan setelah banjir? (bisa pilih lebih dari satu)<br>a. Air masuk ke dalam rumah<br>b. Jalan-jalan tergenang air<br>c. sampah/plastic berserahkan dimana-mana<br>d. Kerusakan pada infrastruktur (jembatan, jalan, dll.)<br>e. Gangguan listrik atau telekomunikasi<br>f. Tidak ada dampak yang signifikan<br>g. Lainnya (sebutkan) |                                                                                                                                                                                                       |
| 13  | Bagaimana dampak banjir terhadap rumah tangga dan usaha/bisnis Anda? (bisa pilih lebih dari satu)<br>a. Kerusakan pada properti<br>b. Biaya perbaikan atau renovasi<br>c. Biaya untuk mengganti barang yang rusak<br>d. Biaya untuk kebersihan atau sanitasi pasca banjir<br>e. Biaya perawatan kesehatan akibat dampak banjir<br>f. Tidak ada dampak yang signifikan                                                           |                                                                                                                                                                                                       |

|     |                                                                                        |                                                                                    |
|-----|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|     | Lainnya (sebutkan)                                                                     |                                                                                    |
| 14  | Berapa total kerugian Anda saat terjadi banjir di sekitar anda?                        | a. Rp 1.000.000 - 5.000.000<br>b. Rp.6.000.000 - 10.000.000<br>c. > Rp. 10.000.000 |
| 15. | Dimanakah anda membuang limbah bekas makanan, air sabun, dan air deterjen sisa cucian? | a. Saluran drainase<br>b. Safety tank                                              |
| 16. | Dimanakah anda membuang limbah black water atau toilet?                                | a. Saluran drainase<br>b. Safety tank                                              |

## Lampiran 12 Dokumentasi Penelitian









