

## DAFTAR PUSTAKA

- Adman, B. 2012. Pemanfaatan Jenis Pohon Lokal Cepat Tumbuh Untuk Pemulihan Lahan Pascatambang Batubara. *Jurnal ilmu Lingkungan*, Volume 10, No. 19-25.
- Aleksander A. 2010. Aliran Permukaan dan Erosi Permukaan Tanah di Areal Pengusahaan Hutan Alam Produksi PT. Andalas Merapi Timber. Skripsi. Institut Pertanian Bogor, Bogor.
- Arief, A. 2001. *Hutan dan Kehutanan*. Kanisius. Yogyakarta.
- Armbrust D. V. 2000. Rapid Measurement Of Crop Canopy Cover. *Agronomy Journal*. 82 : 1170-1171.
- Arsyad, S. 2010. “*Konservasi Tanah Dan Air*”. Edisi Kedua. Serial Pustaka IPB Press, Bogor.
- Arsyad, U. (2010). *Analisis Erosi Pada Berbagai Tipe Penggunaan Lahan dan Kemiringan Lereng di Daerah Aliran Sungai Jeneberang Hulu*. Disertasi Program Pascasarjana Universitas Hasanuddin, UNHAS. Makassar.
- Asdak, C. 2010. *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Penerbit Gadjah Mada University Press, Bulaksumur, Yogyakarta..
- Devianti. 2018. Kajian Tingkat Laju Limpasan Permukaan dan Erosi Berdasarkan Pengelolaan Tanaman Pertanian Sistem Agroforestry dibawah tegakan Jati Putih (*Gmelina arborea* sp) di DAS CiantenCipancar, Provinsi Jawa Barat, Indonesia. *Jurnal Keteknikan Pertanian*. Vol. 6 No. 1.
- Djuwadi. 2002. *Pengusahaan Hutan Rakyat*. Fakultas Kehutanan. UGM, Yogyakarta.
- Draper, N dan Smith. 1992. *Analisis Regresi Terapan*. Gramedia. Jakarta.
- Endes .N. 2008. Analisis Kebutuhan Luasan Hutan Kota Sebagai Sink Gas CO<sub>2</sub> Antropogenik dari Bahan Bakar Minyak dan Gas di Kota Bogor dengan Pendekatan Sistem Dinamik. Disertasi. Bogor: Fakultas Kehutanan Institut Pertanian Bogor.
- Fadilah, Dea Eka. 2018. Pengaruh Pemberian Mulsa Jerami Terhadap Erosi Dan Aliran Permukaan Tanah Inceptisol Pada Berbagai Kemiringan Lereng. Program Studi Keteknikan Pertanian, Fakultas Pertanian Universitas Sumatera Utara.
- Gunawan, G., dan Kusminingrum, M. 2008. *Penangan Erosi Lereng Galian dan Timbunan Jalan dengan Rumput Vertiver*. Jurnal.
- Hardjowigeno. 2015. “*Ilmu Tanah*”. Edisi Baru. Akademika Pressindo, Jakarta.

- Hudson N.W. 2000. *Soil Conservation*. Cornell University Press, New York.
- Ispriyanto, R. 2001. *Erosi di Areal Tumpangsari Tegakan Pinus merkusii Jungh. Et De Vriese Umur 1 tahun (Studi Kasus di KPH Tasikmalaya, Perum Perhutani Unit III Jawa Barat)*. Fakultas Kehutanan. Institut Pertanian Bogor. Bogor.
- Kartasapoetra, A.G. 2010. *Teknologi Konservasi Tanah dan Air*. Edisi 2. Bina Aksara. Jakarta.
- Kironoto, B.A. dan Yulistiyanto B., 2000. *Diklat Kuliah Hidraulika Transformasi Sedimen*. PPS-Teknik Sipil. Yogyakarta.
- Kohnke H. H., A. R. Bertrand. 2000. *Soil Conservation*. McGraw Hill Book Company, Inc., New York.
- Kusmana, C. 1997. *Metode Survey Vegetasi*. Bogor. Institut Pertanian Bogor.
- Manik Y. W., Sumono, N. Ichwandan E. Susanto. 2013. Penentuan Nilai Faktor Tanaman Jagung dan Ubi Kayu Dengan Metode USLE dan Petak Kecil Pada Tanah Ultisol di Kecamatan Siborongborong Kabupaten Tapanuli Utara. *Jurnal Rekayasa Pangan dan Pertanian*. 1 : 27-31
- Martono, 2004. Pengaruh Intensitas Hujan dan Kemiringan Lereng Terhadap Laju Kehilangan Tanah Pada Tanah Regosol Kelabu. [Tesis]. Semarang. Universitas Diponegoro.
- Mashudi, Mudji Susanto, Liliana Baskorowati. 2016. Potensi Hutan Tanaman Mahoni (*Swietenia mahagoni*) Dalam Pengendalian Limpasan Dan Erosi. *Jurnal Manusia dan Lingkungan*. Vol. 23, No.2.
- Muslimah. 2015. Dampak Pencemaran Tanah Dan Langkah Pencegahan. *Agrisamudra, Jurnal Penelitian Vol.2 No. 1*
- Orwa, C., Mutua, A., Kindt, R., Jamnadass, R., & Anthony, S. (2009). *Schima wallichii*. Agroforestry Database: A Tree Reference and Selection Guide Version 4.0, 0, 1-5.
- Paimin, Sukresno, dan Purwanto. 2006. *Sidik Cepat Degradasi Sub-DAS*. Bogor : Badan Penelitian dan Pengembangan Kehutanan Departemen Kehutanan.
- Sarminah, S, Karyati, dan T. Sudarmadji. 2019. *Panduan Praktikum: Konservasi Tanah dan Air*. Mulawarman University Press. Samarinda.
- Setyawan AD. 2000. Tumbuhan Epifit pada Tegakan Pohon *Schima wallichii* (D.C.) Korth. di Gunung Lawu. *Jurnal Biodiversitas*. 1(1):14-20.

- Sismanto. 2009. Analisa Lahan Kritis Sub DAS Riam Kanan DAS Barito Kabupaten Banjar Kalimantan Tengah. *Jurnal Aplikasi*. ISSN. 6 (1).
- Sitepu, Farid., Mary Selintung dan Tri Harianto. 2017. Pengaruh Intensitas Curah Hujan dan Kemiringan Lereng Terhadap Erosi yang Berpotensi Longsor. Jurusan Teknik Sipil, Fakultas Teknik, Universitas Hasanuddin. *Jurnal JPE*. Vol.21, No.1.
- Susanti, Dwi Pratiwi. 2018. *Laju Erosi Pada Tegakan Puspa (Schima Wallichii), Pinus (Pinus Merkusii) Dan Agathis (Agathis Loranthifolia) Di Hutan Pendidikan Gunung Walat, Sukabumi*. Departemen Silviculture Fakultas Kehutanan, Institut Pertanian Bogor Bogor.
- Suprayogo, H., D.K. Hairiah, N. Wijayanto, Sunaryo, dan M. Noordwijk. 2003. *Peran Agroforestri pada Skala Plot: Analisis Komponen Agroforestri sebagai Kunci Keberhasilan atau Kegagalan Pemanfaatan Lahan Indonesia*. World Agroforestry Centre (ICRAF), Southeast Asia Regional Office. PO Box 161 Bogor, Indonesia.
- Sosrodarsono Suyono, Kensaku Takeda, 1999. *Hidrologi Untuk Pengairan*. Pradnya Paramita, Jakarta.
- Saifudin. 2008. Pengukuran Laju Pengendapan Dalam Penentuan Toleransi Penambangan Pasir dan Batu (Sirtu) di DAS Lukulo Hulu Jawa Tengah). Fakultas Geografi UGM. *Jurnal Majalah Geografi Indonesia* Vol 22, No.1.
- Sukmana, S., Suwardjo, U. Kusnadi, dan A. Syam. 1988. *Usaha konservasi di daerah aliran sungai bagian hulu. Sistem Usaha Tani di Lima Agroekosistem*. Risalah Lokakarya Penelitian Sistem Usaha Tani. Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor. hlm. 199-222.
- Supirin, 2002. *Pelestarian Sumber Daya Tanah dan Air*. Andi Offset. Yogyakarta.
- Rositah. 2014. *Pendugaan Biomassa Karbon Serasah dan Tanah Pada Hutan Tanaman (Shorea sp) Pada Sistem TPTI PT suka Jaya Makmur*. Fakultas Kehutanan Universitas Tanjungpura, Pontianak.
- Triatmodjo, Bambang. 2008. *Hidrologi Terapan*. Yogyakarta.
- Triwanto, J.2012. *Konservasi Lahan Hutan dan Pengelolaan Daerah Aliran Sungai*. Umm Press. Malang.
- Utomo, K.M., Sudarsono, B. Rusman, T. Sabrina, J. Lumbanraja, Wawan. 2016. *Ilmu Tanah Dasar-Dasar dan Pengelolaan*. Edisi Pertama. Pramedia Group, Jakarta.

- Widodo A. 2003. Permasalahan dan Pengendalian Kebakaran Hutan di Indonesia. Review Hasil Litbang. Bogor (ID): Pusat Penelitian dan Pengembangan Hutan, Departemen Kehutanan
- Wudianto. 2000. Mencegah Erosi. Penebar Swadaya. Jakarta.
- Wulandari, D. A. 2004. Evaluasi Penggunaan Lengkung Laju Debit Sedimen (Sediment-Discharge Rating Curve) Untuk Memprediksi Sedimen Layang. Tesis. Program Pasca Sarjana Universitas Diponegoro.
- Yassir, I. & R.M. Omon. 2009. *Pemilihan jenis-jenis pohon potensial untuk mendukung kegiatan restorasi lahan tambang melalui pendekatan ekologis*. Prosiding Workshop IPTEK Penyelamatan Hutan Melalui Rehabilitasi Lahan Pascatambang Batubara. Balai Besar Penelitian Dipterokarpa. Samarinda. pp: 64-76.
- Yulina H., D. S. S. Adin, Z. Adindan M. H. R. Maulana. 2015. Hubungan antara Kemiringan dan Posisi Lereng dengan Tekstur Tanah, Permeabilitas dan Erodibilitas Tanah pada Tegalan di Desa Gunung Sari, Kecamatan Cikatomas, Kabupaten Tasikmalaya. *Jurnal Agrikultura*. 26 : 15-22.

# LAMPIRAN

**Lampiran 1. Data Curah Hujan**

| No. | Tanggal Pengamatan | Waktu Hujan (jam) | Lama Hujan (menit) | Curah Hujan (cm <sup>3</sup> ) | Curah Hujan (mm) | Keadaan Curah Hujan | Intensitas Hujan (mm/jam) |
|-----|--------------------|-------------------|--------------------|--------------------------------|------------------|---------------------|---------------------------|
| 1   | 6-Jan-21           | 04-15-04.43       | 28                 | 24                             | 2.4              | Hujan Ringan        | 5.14                      |
| 2   | 8-Jan-21           | 06.17-08.16       | 119                | 232                            | 23.2             | Hujan Sangat Lebat  | 11.70                     |
| 3   | 8-Jan-21           | 10.42-12.30       | 108                | 197                            | 19.7             | Hujan Lebat         | 10.94                     |
| 4   | 8-Jan-21           | 15.11-15.58       | 47                 | 138                            | 13.8             | Hujan Lebat         | 17.62                     |
| 5   | 9-Jan-21           | 05.23-06.06       | 43                 | 91                             | 9.1              | Hujan Normal        | 12.70                     |
| 6   | 9-Jan-21           | 09.53-10.50       | 57                 | 42                             | 4.2              | Hujan Ringan        | 4.42                      |
| 7   | 10-Jan-21          | 08.09-08.47       | 38                 | 29                             | 2.9              | Hujan Ringan        | 4.58                      |
| 8   | 10-Jan-21          | 11.13-11.53       | 39                 | 33                             | 3.3              | Hujan Ringan        | 5.08                      |
| 9   | 10-Jan-21          | 11.40-15.29       | 45                 | 96                             | 9.6              | Hujan Normal        | 12.80                     |
| 10  | 12-Jan-21          | 09.21-09.41       | 20                 | 22                             | 2.2              | Hujan Ringan        | 6.60                      |
| 11  | 12-Jan-21          | 13.06-13.34       | 28                 | 16                             | 1.6              | Hujan Ringan        | 3.43                      |
| 12  | 13-Jan-21          | 10.43-11.11       | 28                 | 18                             | 1.8              | Hujan Ringan        | 3.86                      |
| 13  | 13-Jan-21          | 14.03-14.23       | 20                 | 31                             | 3.1              | Hujan Ringan        | 9.30                      |
| 14  | 14-Jan-21          | 08.24-09.00       | 36                 | 53                             | 5.3              | Hujan Normal        | 8.83                      |
| 15  | 14-Jan-21          | 09.46-10.36       | 50                 | 8                              | 0.8              | Hujan Sangat Ringan | 0.96                      |
| 16  | 14-Jan-21          | 10.58-12.13       | 75                 | 30                             | 3                | Hujan Ringan        | 2.40                      |
| 17  | 15-Jan-21          | 12.30-13.26       | 56                 | 104                            | 10.4             | Hujan Lebat         | 11.14                     |
| 18  | 15-Jan-21          | 13.35-14.14       | 39                 | 46                             | 4.6              | Hujan Ringan        | 7.08                      |
| 19  | 15-Jan-21          | 14.28-15.42       | 74                 | 86                             | 8.6              | Hujan Normal        | 6.97                      |
| 20  | 15-Jan-21          | 15.53-19.18       | 205                | 48                             | 4.8              | Hujan Ringan        | 1.40                      |
| 21  | 15-Jan-21          | 19.31-21.19       | 108                | 154                            | 15.4             | Hujan Lebat         | 8.56                      |
| 22  | 15-Jan-21          | 21.35-22.51       | 76                 | 96                             | 9.6              | Hujan Normal        | 7.58                      |
| 23  | 15-Jan-21          | 23.13-23.28       | 25                 | 18                             | 1.8              | Hujan Ringan        | 4.32                      |
| 24  | 15-Jan-21          | 23.49-00.44       | 55                 | 36                             | 3.6              | Hujan Ringan        | 3.93                      |
| 25  | 16-Jan-21          | 10.31-11.21       | 50                 | 56                             | 5.6              | Hujan Normal        | 6.72                      |
| 26  | 16-Jan-21          | 12.03-12.38       | 35                 | 44                             | 4.4              | Hujan Ringan        | 7.54                      |
| 27  | 17-Jan-21          | 05.46-06.33       | 47                 | 96                             | 9.6              | Hujan Normal        | 12.26                     |
| 28  | 17-Jan-21          | 08.12-09.34       | 82                 | 95                             | 9.5              | Hujan Normal        | 6.95                      |
| 29  | 17-Jan-21          | 16.27-17.22       | 55                 | 122                            | 12.2             | Hujan Lebat         | 13.31                     |
| 30  | 19-Jan-21          | 06.33-07.27       | 54                 | 150                            | 15               | Hujan Lebat         | 16.67                     |

|    |           |             |     |     |      |              |       |
|----|-----------|-------------|-----|-----|------|--------------|-------|
| 31 | 19-Jan-21 | 07.56-08.49 | 53  | 156 | 15.6 | Hujan Lebat  | 17.66 |
| 32 | 19-Jan-21 | 09.24-11.08 | 104 | 114 | 11.4 | Hujan Lebat  | 6.58  |
| 33 | 19-Jan-21 | 11.42-12.55 | 73  | 30  | 3    | Hujan Ringan | 2.47  |
| 34 | 19-Jan-21 | 13.21-13.53 | 32  | 22  | 2.2  | Hujan Ringan | 4.13  |

|              |           |             |    |     |              |                     |               |
|--------------|-----------|-------------|----|-----|--------------|---------------------|---------------|
| 36           | 19-Jan-21 | 16.2-16.34  | 32 | 44  | 4.4          | Hujan Ringan        | 8.25          |
| 37           | 20-Jan-21 | 05.31-05.58 | 27 | 78  | 7.8          | Hujan Normal        | 17.33         |
| 38           | 20-Jan-21 | 06.27-06.55 | 28 | 76  | 7.6          | Hujan Normal        | 16.29         |
| 39           | 20-Jan-21 | 07.21-08.15 | 54 | 74  | 7.4          | Hujan Normal        | 8.22          |
| 40           | 20-Jan-21 | 08.37-09.07 | 30 | 68  | 6.8          | Hujan Normal        | 13.60         |
| 41           | 20-Jan-21 | 09.41-10.24 | 43 | 102 | 10.2         | Hujan Lebat         | 14.23         |
| 42           | 20-Jan-21 | 10.58-11.33 | 35 | 20  | 2            | Hujan Ringan        | 3.43          |
| 43           | 20-Jan-21 | 11.56-12.28 | 32 | 26  | 2.6          | Hujan Ringan        | 4.88          |
| 44           | 20-Jan-21 | 12.49-13.52 | 63 | 8   | 0.8          | Hujan Sangat Ringan | 0.76          |
| 45           | 20-Jan-21 | 14.18-15.27 | 69 | 46  | 4.6          | Hujan Ringan        | 4.00          |
| 46           | 20-Jan-21 | 15.51-16.48 | 57 | 32  | 3.2          | Hujan Ringan        | 3.37          |
| 47           | 20-Jan-21 | 17.11-17.43 | 32 | 26  | 2.6          | Hujan Ringan        | 4.88          |
| 48           | 20-Jan-21 | 18.16-18.44 | 28 | 76  | 7.6          | Hujan Normal        | 16.29         |
| 49           | 20-Jan-21 | 18.59-19.52 | 53 | 204 | 20.4         | Hujan Sangat Lebat  | 23.09         |
| 50           | 20-Jan-21 | 20.55-21.21 | 26 | 16  | 1.6          | Hujan Ringan        | 3.69          |
| 51           | 20-Jan-21 | 22.06-22.51 | 45 | 118 | 11.8         | Hujan Lebat         | 15.73         |
| 52           | 21-Jan-21 | 09.02-09.37 | 35 | 12  | 1.2          | Hujan Ringan        | 2.06          |
| 53           | 21-Jan-21 | 09.56-11.04 | 68 | 10  | 1            | Hujan Ringan        | 0.88          |
| 54           | 21-Jan-21 | 11.37-21.07 | 30 | 22  | 2.2          | Hujan Ringan        | 4.40          |
| 55           | 21-Jan-21 | 12.49-13.35 | 46 | 108 | 10.8         | Hujan Lebat         | 14.09         |
| 56           | 21-Jan-21 | 14.07-14.48 | 41 | 120 | 12           | Hujan Lebat         | 17.56         |
| 57           | 21-Jan-21 | 15.23-16.11 | 48 | 136 | 13.6         | Hujan Lebat         | 17.00         |
| 58           | 21-Jan-21 | 16.35-17.32 | 57 | 236 | 23.6         | Hujan Sangat Lebat  | 24.84         |
| 59           | 21-Jan-21 | 18.09-19.11 | 62 | 224 | 22.4         | Hujan Sangat Lebat  | 21.68         |
| 60           | 21-Jan-21 | 19.51-20.34 | 43 | 102 | 10.2         | Hujan Lebat         | 14.23         |
| <b>Total</b> |           |             |    |     | <b>455.3</b> |                     | <b>544.39</b> |

|    |           |             |    |    |     |              |      |
|----|-----------|-------------|----|----|-----|--------------|------|
| 35 | 19-Jan-21 | 14.19-15.23 | 54 | 36 | 3.6 | Hujan Ringan | 4.00 |
|----|-----------|-------------|----|----|-----|--------------|------|

## Lampiran 2

Rata-Rata Lamanya Hujan (Menit)

| No               | Hujan Sangat Lebat |
|------------------|--------------------|
| 1                | 108                |
| 2                | 43                 |
| <b>Total</b>     | <b>151</b>         |
| <b>Rata-Rata</b> | <b>50.50</b>       |
| 6                | 54                 |
| 7                | 53                 |
| 8                | 104                |
| 9                | 43                 |
| 10               | 46                 |
| 11               | 41                 |
| 12               | 48                 |
| 13               | 43                 |
| 14               | 45                 |
| <b>Total</b>     | <b>851</b>         |
| <b>Rata-Rata</b> | <b>60.78</b>       |

| No               | Hujan Ringan |
|------------------|--------------|
| 1                | 28           |
| 2                | 57           |
| 3                | 38           |
| 4                | 39           |
| 5                | 20           |
| 6                | 28           |
| 7                | 28           |
| 8                | 20           |
| 9                | 75           |
| 10               | 39           |
| 11               | 205          |
| 12               | 25           |
| 13               | 55           |
| 14               | 35           |
| 15               | 73           |
| 16               | 32           |
| 17               | 54           |
| 18               | 32           |
| 19               | 35           |
| 20               | 32           |
| 21               | 69           |
| 22               | 57           |
| 23               | 32           |
| 24               | 26           |
| 25               | 35           |
| 26               | 68           |
| 27               | 30           |
| <b>Total</b>     | <b>1267</b>  |
| <b>Rata-Rata</b> | <b>46.92</b> |

| No               | Hujan Normal |
|------------------|--------------|
| 1                | 43           |
| 2                | 45           |
| 3                | 36           |
| 4                | 74           |
| 5                | 76           |
| 6                | 50           |
| 7                | 47           |
| 8                | 82           |
| 9                | 27           |
| 10               | 28           |
| 11               | 54           |
| 12               | 30           |
| 13               | 28           |
| <b>Total</b>     | <b>620</b>   |
| <b>Rata-Rata</b> | <b>47.69</b> |

| No               | Hujan Sangat Lebat |
|------------------|--------------------|
| 1                | 119                |
| 2                | 57                 |
| 3                | 62                 |
| 4                | 53                 |
| <b>Total</b>     | <b>291</b>         |
| <b>Rata-Rata</b> | <b>72.75</b>       |



**Lampiran 3.** Data Erosi Pada Kelereng 15%

| Tanggal Pengamatan | Curah Hujan (mm) | Tingkat Erosi (E)     |                              |                       |                              |
|--------------------|------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                  | Lereng 15%            |                              |                       |                              |
|                    |                  | Sampel 1A (Plot 1) kg | Sampel 1A (Plot 1) ton/tahun | Sampel 1B (Plot 2) kg | Sampel 1B (Plot 2) ton/tahun |
| 6-Jan-21           | 2.4              | 6.1E-05               | 4.575E-05                    | 5.9E-05               | 4.425E-05                    |
| 8-Jan-21           | 23.2             | 0.006875              | 0.00515625                   | 0.006147              | 0.00461025                   |
| 8-Jan-21           | 19.7             | 0.003507              | 0.00263025                   | 0.0040775             | 0.003058125                  |
| 8-Jan-21           | 13.8             | 0.002045              | 0.00153375                   | 0.001624              | 0.001218                     |
| 9-Jan-21           | 9.1              | 0.0007905             | 0.000592875                  | 0.001038              | 0.0007785                    |
| 9-Jan-21           | 4.2              | 0.000116              | 8.7E-05                      | 0.0001175             | 8.8125E-05                   |
| 10-Jan-21          | 2.9              | 0.000157              | 0.00011775                   | 7.45E-05              | 5.5875E-05                   |
| 10-Jan-21          | 3.3              | 8.6E-05               | 6.45E-05                     | 8.85E-05              | 6.6375E-05                   |
| 10-Jan-21          | 9.6              | 0.001118              | 0.0008385                    | 0.0008235             | 0.000617625                  |
| 12-Jan-21          | 2.2              | 6.05E-05              | 4.5375E-05                   | 5.85E-05              | 4.3875E-05                   |
| 12-Jan-21          | 1.6              | 4.45E-05              | 3.3375E-05                   | 4.2E-05               | 3.15E-05                     |
| 13-Jan-21          | 1.8              | 4.3E-05               | 3.225E-05                    | 4.65E-05              | 3.4875E-05                   |
| 13-Jan-21          | 3.1              | 8.4E-05               | 6.3E-05                      | 8.1E-05               | 6.075E-05                    |
| 14-Jan-21          | 5.3              | 0.000293              | 0.00021975                   | 0.000289              | 0.00021675                   |
| 14-Jan-21          | 0.8              | 1.85E-05              | 1.3875E-05                   | 1.95E-05              | 1.4625E-05                   |
| 14-Jan-21          | 3                | 0.000167              | 0.00012525                   | 8.15E-05              | 6.1125E-05                   |
| 15-Jan-21          | 10.4             | 0.001196              | 0.000897                     | 0.000891              | 0.00066825                   |
| 15-Jan-21          | 4.6              | 0.000127              | 9.525E-05                    | 0.000255              | 0.00019125                   |
| 15-Jan-21          | 8.6              | 0.000723              | 0.00054225                   | 0.0007455             | 0.000559125                  |
| 15-Jan-21          | 4.8              | 0.000264              | 0.000198                     | 0.0001265             | 9.4875E-05                   |
| 15-Jan-21          | 15.4             | 0.0022425             | 0.001681875                  | 0.00178               | 0.001335                     |
| 15-Jan-21          | 9.6              | 0.0008265             | 0.000619875                  | 0.000834              | 0.0006255                    |
| 15-Jan-21          | 1.8              | 4.2E-05               | 3.15E-05                     | 4.45E-05              | 3.3375E-05                   |
| 15-Jan-21          | 3.6              | 9.95E-05              | 7.4625E-05                   | 0.000101              | 7.575E-05                    |
| 16-Jan-21          | 5.6              | 0.000309              | 0.00023175                   | 0.000474              | 0.0003555                    |
| 16-Jan-21          | 4.4              | 0.000121              | 9.075E-05                    | 0.0001235             | 9.2625E-05                   |
| 17-Jan-21          | 9.6              | 0.0008355             | 0.000626625                  | 0.000843              | 0.00063225                   |
| 17-Jan-21          | 9.5              | 0.0008235             | 0.000617625                  | 0.000828              | 0.000621                     |
| 17-Jan-21          | 12.2             | 0.001408              | 0.001056                     | 0.001795              | 0.00134625                   |
| 19-Jan-21          | 15               | 0.001758              | 0.0013185                    | 0.0022125             | 0.001659375                  |
| 19-Jan-21          | 15.6             | 0.002255              | 0.00169125                   | 0.00229               | 0.0017175                    |
| 19-Jan-21          | 11.4             | 0.001298              | 0.0009735                    | 0.001312              | 0.000984                     |
| 19-Jan-21          | 3                | 8E-05                 | 6E-05                        | 8.2E-05               | 6.15E-05                     |
| 19-Jan-21          | 2.2              | 5.45E-05              | 4.0875E-05                   | 5.85E-05              | 4.3875E-05                   |
| 19-Jan-21          | 3.6              | 9.85E-05              | 7.3875E-05                   | 0.0001005             | 7.5375E-05                   |
| 19-Jan-21          | 4.4              | 0.000121              | 9.075E-05                    | 0.000124              | 9.3E-05                      |
| 20-Jan-21          | 7.8              | 0.000657              | 0.00049275                   | 0.0006645             | 0.000498375                  |

|                  |              |                |                |                |                |
|------------------|--------------|----------------|----------------|----------------|----------------|
| 20-Jan-21        | 7.6          | 0.000436       | 0.000327       | 0.00066        | 0.000495       |
| 20-Jan-21        | 7.4          | 0.000425       | 0.00031875     | 0.000418       | 0.0003135      |
| 20-Jan-21        | 6.8          | 0.000381       | 0.00028575     | 0.000388       | 0.000291       |
| 20-Jan-21        | 10.2         | 0.001182       | 0.0008865      | 0.001194       | 0.0008955      |
| 20-Jan-21        | 2            | 5.05E-05       | 3.7875E-05     | 5.45E-05       | 4.0875E-05     |
| 20-Jan-21        | 2.6          | 6.05E-05       | 4.5375E-05     | 7.3E-05        | 5.475E-05      |
| 20-Jan-21        | 0.8          | 1.85E-05       | 1.3875E-05     | 2E-05          | 1.5E-05        |
| 20-Jan-21        | 4.6          | 0.0001315      | 9.8625E-05     | 0.0001335      | 0.000100125    |
| 20-Jan-21        | 3.2          | 8.15E-05       | 6.1125E-05     | 8.95E-05       | 6.7125E-05     |
| 20-Jan-21        | 2.6          | 6.95E-05       | 5.2125E-05     | 7.25E-05       | 5.4375E-05     |
| 20-Jan-21        | 7.6          | 0.00044        | 0.00033        | 0.0006675      | 0.000500625    |
| 20-Jan-21        | 20.4         | 0.003579       | 0.00268425     | 0.0041895      | 0.003142125    |
| 20-Jan-21        | 1.6          | 4.2E-05        | 3.15E-05       | 4.4E-05        | 3.3E-05        |
| 20-Jan-21        | 11.8         | 0.001382       | 0.0010365      | 0.0017425      | 0.001306875    |
| 21-Jan-21        | 1.2          | 2.95E-05       | 2.2125E-05     | 3.15E-05       | 2.3625E-05     |
| 21-Jan-21        | 1            | 2.4E-05        | 1.8E-05        | 2.6E-05        | 1.95E-05       |
| 21-Jan-21        | 2.2          | 5.9E-05        | 4.425E-05      | 6.1E-05        | 4.575E-05      |
| 21-Jan-21        | 10.8         | 0.001192       | 0.000894       | 0.000888       | 0.000666       |
| 21-Jan-21        | 12           | 0.001394       | 0.0010455      | 0.001755       | 0.00131625     |
| 21-Jan-21        | 13.6         | 0.001995       | 0.00149625     | 0.0020025      | 0.001501875    |
| 21-Jan-21        | 23.6         | 0.0076835      | 0.005762625    | 0.008412       | 0.006309       |
| 21-Jan-21        | 22.4         | 0.004599       | 0.00344925     | 0.003963       | 0.00297225     |
| 21-Jan-21        | 10.2         | 0.000891       | 0.00066825     | 0.0009015      | 0.000676125    |
| <b>Total</b>     | <b>455.3</b> | <b>0.1704</b>  | <b>1.5090</b>  | <b>0.7140</b>  | <b>1.5258</b>  |
| <b>Rata-Rata</b> |              | <b>0.00284</b> | <b>0.02515</b> | <b>0.00290</b> | <b>0.02543</b> |

| Kelerengan (%) | Plot | Curah Hujan (mm) | Limpasan (mm) | Koefisien Limpasan (limpasan/Curah Hujan) |
|----------------|------|------------------|---------------|---|
| 15             | 1    | 455.3            | 43.4          | 0.0953                                    |
|                | 2    | 455.3            | 43.68         | 0.0959                                    |

**Lampiran 4. Data Erosi Pada Kelereng 20%**

| Tanggal Pengamatan | Curah Hujan (mm) | Tingkat Erosi (E)     |                              |                       |                              |
|--------------------|------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                  | Lereng 20%            |                              |                       |                              |
|                    |                  | Sampel 2A (Plot 3) kg | Sampel 2A (Plot 3) ton/tahun | Sampel 2B (Plot 4) kg | Sampel 2B (Plot 4) ton/tahun |
| 6-Jan-21           | 2.4              | 0.000144              | 0.000108                     | 0.000139              | 0.00010425                   |
| 8-Jan-21           | 23.2             | 0.008352              | 0.006264                     | 0.007634              | 0.0057255                    |
| 8-Jan-21           | 19.7             | 0.005319              | 0.00398925                   | 0.0047                | 0.003525                     |
| 8-Jan-21           | 13.8             | 0.002898              | 0.0021735                    | 0.003284              | 0.002463                     |
| 9-Jan-21           | 9.1              | 0.0013325             | 0.000999375                  | 0.001365              | 0.00102375                   |
| 9-Jan-21           | 4.2              | 0.000241              | 0.00018075                   | 0.000504              | 0.000378                     |
| 10-Jan-21          | 2.9              | 0.000243              | 0.00018225                   | 0.000261              | 0.00019575                   |
| 10-Jan-21          | 3.3              | 0.000186              | 0.0001395                    | 0.000198              | 0.0001485                    |
| 10-Jan-21          | 9.6              | 0.001152              | 0.000864                     | 0.0014075             | 0.001055625                  |
| 12-Jan-21          | 2.2              | 0.000132              | 9.9E-05                      | 0.000125              | 9.375E-05                    |
| 12-Jan-21          | 1.6              | 4.8E-05               | 3.6E-05                      | 9.2E-05               | 6.9E-05                      |
| 13-Jan-21          | 1.8              | 0.000104              | 7.8E-05                      | 0.000108              | 8.1E-05                      |
| 13-Jan-21          | 3.1              | 0.000178              | 0.0001335                    | 0.000279              | 0.00020925                   |
| 14-Jan-21          | 5.3              | 0.000477              | 0.00035775                   | 0.0004545             | 0.000340875                  |
| 14-Jan-21          | 0.8              | 2.25E-05              | 1.6875E-05                   | 4.8E-05               | 3.6E-05                      |
| 14-Jan-21          | 3                | 0.00027               | 0.0002025                    | 0.000178              | 0.0001335                    |
| 15-Jan-21          | 10.4             | 0.001872              | 0.001404                     | 0.0015375             | 0.001153125                  |
| 15-Jan-21          | 4.6              | 0.000268              | 0.000201                     | 0.000552              | 0.000414                     |
| 15-Jan-21          | 8.6              | 0.001032              | 0.000774                     | 0.001006              | 0.0007545                    |
| 15-Jan-21          | 4.8              | 0.000279              | 0.00020925                   | 0.000432              | 0.000324                     |
| 15-Jan-21          | 15.4             | 0.003234              | 0.0024255                    | 0.002757              | 0.00206775                   |
| 15-Jan-21          | 9.6              | 0.001152              | 0.000864                     | 0.001136              | 0.000852                     |
| 15-Jan-21          | 1.8              | 0.000108              | 8.1E-05                      | 4.65E-05              | 3.4875E-05                   |
| 15-Jan-21          | 3.6              | 0.000216              | 0.000162                     | 0.000208              | 0.000156                     |
| 16-Jan-21          | 5.6              | 0.000672              | 0.000504                     | 0.000656              | 0.000492                     |
| 16-Jan-21          | 4.4              | 0.000396              | 0.000297                     | 0.000255              | 0.00019125                   |
| 17-Jan-21          | 9.6              | 0.001142              | 0.0008565                    | 0.00144               | 0.00108                      |
| 17-Jan-21          | 9.5              | 0.00114               | 0.000855                     | 0.0014125             | 0.001059375                  |
| 17-Jan-21          | 12.2             | 0.002184              | 0.001638                     | 0.002562              | 0.0019215                    |
| 19-Jan-21          | 15               | 0.0031395             | 0.002354625                  | 0.0036                | 0.0027                       |
| 19-Jan-21          | 15.6             | 0.003248              | 0.002436                     | 0.003744              | 0.002808                     |
| 19-Jan-21          | 11.4             | 0.002052              | 0.001539                     | 0.00168               | 0.00126                      |
| 19-Jan-21          | 3                | 0.00018               | 0.000135                     | 0.000173              | 0.00012975                   |
| 19-Jan-21          | 2.2              | 6.25E-05              | 4.6875E-05                   | 0.000132              | 9.9E-05                      |
| 19-Jan-21          | 3.6              | 0.000216              | 0.000162                     | 0.000208              | 0.000156                     |
| 19-Jan-21          | 4.4              | 0.000264              | 0.000198                     | 0.000257              | 0.00019275                   |

|                  |              |                |                |                |                |
|------------------|--------------|----------------|----------------|----------------|----------------|
| 20-Jan-21        | 7.8          | 0.000936       | 0.000702       | 0.000918       | 0.0006885      |
| 20-Jan-21        | 7.6          | 0.000912       | 0.000684       | 0.0006765      | 0.000507375    |
| 20-Jan-21        | 7.4          | 0.000888       | 0.000666       | 0.0006555      | 0.000491625    |
| 20-Jan-21        | 6.8          | 0.000612       | 0.000459       | 0.000591       | 0.00044325     |
| 20-Jan-21        | 10.2         | 0.001836       | 0.001377       | 0.001505       | 0.00112875     |
| 20-Jan-21        | 2            | 0.00012        | 9E-05          | 0.000114       | 8.55E-05       |
| 20-Jan-21        | 2.6          | 0.000156       | 0.000117       | 0.000152       | 0.000114       |
| 20-Jan-21        | 0.8          | 2.4E-05        | 1.8E-05        | 2.25E-05       | 1.6875E-05     |
| 20-Jan-21        | 4.6          | 0.000276       | 0.000207       | 0.000271       | 0.00020325     |
| 20-Jan-21        | 3.2          | 0.000192       | 0.000144       | 0.000186       | 0.0001395      |
| 20-Jan-21        | 2.6          | 0.000156       | 0.000117       | 0.000151       | 0.00011325     |
| 20-Jan-21        | 7.6          | 0.000912       | 0.000684       | 0.0006795      | 0.000509625    |
| 20-Jan-21        | 20.4         | 0.005508       | 0.004131       | 0.003657       | 0.00274275     |
| 20-Jan-21        | 1.6          | 9.6E-05        | 7.2E-05        | 4.7E-05        | 3.525E-05      |
| 20-Jan-21        | 11.8         | 0.002109       | 0.00158175     | 0.002478       | 0.0018585      |
| 21-Jan-21        | 1.2          | 3.6E-05        | 2.7E-05        | 6.6E-05        | 4.95E-05       |
| 21-Jan-21        | 1            | 3E-05          | 2.25E-05       | 5.7E-05        | 4.275E-05      |
| 21-Jan-21        | 2.2          | 0.000132       | 9.9E-05        | 0.000127       | 9.525E-05      |
| 21-Jan-21        | 10.8         | 0.00162        | 0.001215       | 0.001923       | 0.00144225     |
| 21-Jan-21        | 12           | 0.00216        | 0.00162        | 0.0024885      | 0.001866375    |
| 21-Jan-21        | 13.6         | 0.002448       | 0.001836       | 0.0028315      | 0.002123625    |
| 21-Jan-21        | 23.6         | 0.009178       | 0.0068835      | 0.009912       | 0.007434       |
| 21-Jan-21        | 22.4         | 0.005376       | 0.004032       | 0.006012       | 0.004509       |
| 21-Jan-21        | 10.2         | 0.001836       | 0.001377       | 0.001218       | 0.0009135      |
| <b>Total</b>     | <b>455.3</b> | <b>0.25454</b> | <b>2.1504</b>  | <b>0.2424</b>  | <b>2.1252</b>  |
| <b>Rata-Rata</b> |              | <b>0.00409</b> | <b>0.03584</b> | <b>0.00404</b> | <b>0.03542</b> |

| Kelerengan (%) | Plot | Curah Hujan (mm) | Limpasan (mm) | Koefisien Limpasan (limpasan/Curah Hujan) |
|----------------|------|------------------|---------------|---|
| 20             | 3    | 455.3            | 45.33         | 0.0996                                    |
|                | 4    | 455.3            | 45.01         | 0.0989                                    |

**Lampiran 5. Analisis Ragam Hubungan Antara Curah Hujan dengan Erosi**

**A. Kelerengan 15%**

1. Plot 1 (Sampel 1A)

**ANOVA**

| Sumber Keragaman | Jumlah Kuadrat | Derajat Bebas | Kuadrat Tengah | F       | Sig.              |
|------------------|----------------|---------------|----------------|---------|-------------------|
| 1 Regresi        | 1758.382       | 1             | 1758.382       | 267.036 | .000 <sup>b</sup> |
| Galat            | 381.920        | 58            | 6.585          |         |                   |
| Total            | 2140.302       | 59            |                |         |                   |

$R^2 = 0,82$

2. Plot 2 (Sampel 1B)

**ANOVA**

| Sumber Keragaman | Jumlah Kuadrat | Derajat Bebas | Kuadrat Tengah | F       | Sig.              |
|------------------|----------------|---------------|----------------|---------|-------------------|
| 1 Regresi        | 1740.145       | 1             | 1740.145       | 252.222 | .000 <sup>b</sup> |
| Galat            | 400.157        | 58            | 6.899          |         |                   |
| Total            | 2140.302       | 59            |                |         |                   |

$R^2 = 0,81$

**B. Kelerengan 20%**

1. Plot 3 (Sampel 2A)

**ANOVA**

| Sumber Keragaman | Jumlah Kuadrat | Derajat Bebas | Kuadrat Tengah | F       | Sig.              |
|------------------|----------------|---------------|----------------|---------|-------------------|
| 1 Regresi        | 1884.361       | 1             | 1884.361       | 427.025 | .000 <sup>b</sup> |
| Galat            | 255.940        | 58            | 4.413          |         |                   |
| Total            | 2140.302       | 59            |                |         |                   |

$R^2 = 0,88$

2. Plot 4 (Sampel 2B)

**ANOVA**

| Sumber Keragaman | Jumlah Kuadrat | Derajat Bebas | Kuadrat Tengah | F       | Sig.              |
|------------------|----------------|---------------|----------------|---------|-------------------|
| 1 Regresi        | 1836.294       | 1             | 1836.294       | 350.337 | .000 <sup>b</sup> |
| Galat            | 304.008        | 58            | 5.242          |         |                   |

|       |          |    |  |  |  |
|-------|----------|----|--|--|--|
| Total | 2140.302 | 59 |  |  |  |
|-------|----------|----|--|--|--|

$R^2 = 0,85$

**Lampiran 6.** Penduga Parameter Regresi Hubungan antara Curah Hujan dengan Erosi

**A. Kelerengkan 15%**

1. Plot 1 (Sampel 1A)

Penduga Parameter Regresi

| Penduga Parameter | Nilai    | Galat Baku | T      | Sig.  |
|-------------------|----------|------------|--------|-------|
| 1 Konstanta       |          |            |        |       |
| (a)               | 4.206    | .391       | 10.768 | 0,000 |
| (b)               | 3563.242 | 218.052    | 16.341 | 0,000 |

2. Plot 2 (Sampel 1B)

Penduga Parameter Regresi

| Penduga Parameter | Nilai    | Galat Baku | T      | Sig.  |
|-------------------|----------|------------|--------|-------|
| 1 Konstanta       |          |            |        |       |
| (a)               | 4.214    | .400       | 10.532 | 0,000 |
| (b)               | 3481.921 | 219.244    | 15.881 | 0,000 |

**B. Kelerengkan 20%**

1. Plot 3 (Sampel 2A)

Penduga Parameter Regresi

| Penduga Parameter | Nilai    | Galat Baku | T      | Sig.  |
|-------------------|----------|------------|--------|-------|
| 1 Konstanta       |          |            |        |       |
| (a)               | 3.618    | .332       | 10.884 | 0,000 |
| (b)               | 3481.921 | 141.454    | 20.665 | 0,000 |

2. Plot 4 (Sampel 2B)

Penduga Parameter Regresi

| Penduga Parameter | Nilai | Galat Baku | T | Sig. |
|-------------------|-------|------------|---|------|
|-------------------|-------|------------|---|------|

|     |           |          |         |        |       |
|-----|-----------|----------|---------|--------|-------|
| 1   | Konstanta |          |         |        |       |
| (a) |           | 3.653    | 363     | 10.070 | 0,000 |
| (b) |           | 2904.119 | 155.157 | 18.717 | 0,000 |

**Lampiran 7. Inventarisasi Tegakan di Sekitar Plot Pada Kelerengan 15%**  
Plot 1

| No    | Jenis Pohon                 | Kelas   | Keliling(cm) | Diameter (cm) | Tbc (m) | Ttot (m) | LBDS (cm <sup>2</sup> ) | LBDS (m) <sup>2</sup> | LBDS (m) <sup>2</sup> /ha |
|-------|-----------------------------|---------|--------------|---------------|---------|----------|-------------------------|-----------------------|---------------------------|
| 1     | <i>Schima wallichii</i>     | Tiang   | 62           | 19.75         | 3.25    | 10.18    | 306.05                  | 0.03                  | 7.5                       |
| 2     | <i>Schima wallichii</i>     | Tiang   | 46           | 14.65         | 5.11    | 9.54     | 168.47                  | 0.016                 | 4                         |
| 3     | <i>Aleurites moluccana</i>  | Pohon   | 70           | 22.29         | 8.17    | 18.33    | 390.13                  | 0.039                 | 9.75                      |
| 4     | <i>Schima wallichii</i>     | Tiang   | 34           | 10.83         | 4.54    | 7.97     | 92.04                   | 0.0092                | 2.3                       |
| 5     | <i>Schima wallichii</i>     | Pancang | 30           | 9.55          | 4.73    | 8.23     | 71.66                   | 0.0071                | 1.775                     |
| 6     | <i>Schima wallichii</i>     | Tiang   | 36           | 11.46         | 4.54    | 9.29     | 103.18                  | 0.01                  | 2.5                       |
| 7     | <i>Schima wallichii</i>     | Tiang   | 45           | 14.33         | 2.89    | 8.75     | 161.23                  | 0.016                 | 4                         |
| 8     | <i>Schima wallichii</i>     | Pohon   | 75           | 23.89         | 7.02    | 11.48    | 447.85                  | 0.044                 | 11                        |
| 9     | <i>Schima wallichii</i>     | Tiang   | 56           | 17.83         | 8.23    | 14.75    | 249.68                  | 0.0249                | 6.225                     |
| 10    | <i>Schima wallichii</i>     | Tiang   | 55           | 17.52         | 12.2    | 20.29    | 240.84                  | 0.24                  | 60                        |
| 11    | <i>Schima wallichii</i>     | Pancang | 31           | 9.87          | 4.81    | 10.22    | 76.51                   | 0.0076                | 1.9                       |
| 12    | <i>Schima wallichii</i>     | Tiang   | 57           | 18.15         | 8.48    | 18.8     | 258.68                  | 0.025                 | 6.25                      |
| 13    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 14    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 15    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 16    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 17    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 18    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 19    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 20    | <i>Schima wallichii</i>     | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 21    | <i>Melicope micrococca</i>  | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 22    | <i>Leea indica</i>          | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 23    | <i>Leea indica</i>          | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 24    | <i>Ganophyllum falcatum</i> | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 25    | <i>Ganophyllum falcatum</i> | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| Total |                             |         |              |               |         |          |                         |                       | 9.77                      |

| Nama Vegetasi              | Kelas   | Jumlah | Persentase (%) |
|----------------------------|---------|--------|----------------|
| <i>Aleurites moluccana</i> | Pohon   | 1      | 4              |
| <i>Schima wallichii</i>    | Pohon   | 1      | 4              |
| <i>Schima wallichii</i>    | Tiang   | 8      | 32             |
| <i>Schima wallichii</i>    | Pancang | 2      | 8              |
| <i>Schima wallichii</i>    | Semai   | 8      | 32             |
| <i>Melicope micrococca</i> | Semai   | 1      | 4              |
| <i>Leea indica</i>         | Semai   | 2      | 8              |

|  |       |             |     |
|--|-------|-------------|-----|
| <i>Ganophyllum falcatum</i>  | Semai | 2           | 8   |
| Total  |       | 25          | 100 |
| <i>Schima wallichii</i>  |       | 4+32+8+32   | 76  |
| <i>Schima wallichii</i> +<br><i>Melicope micrococca</i> +<br><i>Leea indica</i> +<br><i>Ganophyllum falcatum</i> |       | 32 +4 +8 +8 | 52  |

Plot 2

| No    | Jenis Pohon                 | Kelas | Keliling(cm) | Diameter (cm) | Tbc (m) | Ttot (m) | LBDS (cm <sup>2</sup> ) | LBDS (m) <sup>2</sup> | LBDS (m) <sup>2</sup> /ha |
|-------|-----------------------------|-------|--------------|---------------|---------|----------|-------------------------|-----------------------|---------------------------|
| 1     | <i>Schima wallichii</i>     | Tiang | 49           | 15.61         | 7.73    | 19.52    | 191.16                  | 0.019                 | 4.75                      |
| 2     | <i>Schima wallichii</i>     | Tiang | 61           | 19.43         | 10.17   | 17.22    | 296.26                  | 0.029                 | 7.25                      |
| 3     | <i>Schima wallichii</i>     | Tiang | 35           | 11.15         | 9.29    | 21.98    | 97.53                   | 0.0097                | 2.425                     |
| 4     | <i>Schima wallichii</i>     | Tiang | 38           | 12.10         | 3.79    | 19.52    | 114.97                  | 0.011                 | 2.75                      |
| 5     | <i>Schima wallichii</i>     | Tiang | 60           | 19.11         | 7.25    | 18.8     | 286.62                  | 0.028                 | 7                         |
| 6     | <i>Schima wallichii</i>     | Tiang | 57           | 18.15         | 8.48    | 25.04    | 258.68                  | 0.025                 | 6.25                      |
| 7     | <i>Schima wallichii</i>     | Tiang | 52           | 16.56         | 4.54    | 20.29    | 215.29                  | 0.0215                | 5.375                     |
| 8     | <i>Schima wallichii</i>     | Tiang | 56           | 17.83         | 5.23    | 14.34    | 249.68                  | 0.024                 | 6                         |
| 9     | <i>Swietenia mahagoni</i>   | Tiang | 37           | 11.78         | 6.33    | 10.98    | 109.00                  | 0.01                  | 2.5                       |
| 10    | <i>Schima wallichii</i>     | Tiang | 40           | 12.74         | 3.67    | 16.45    | 127.39                  | 0.012                 | 3                         |
| 11    | <i>Schima wallichii</i>     | Tiang | 42           | 13.38         | 6.27    | 13.22    | 140.45                  | 0.014                 | 3.5                       |
| 12    | <i>Schima wallichii</i>     | Tiang | 37           | 11.78         | 5.69    | 15.75    | 109.00                  | 0.01                  | 2.5                       |
| 13    | <i>Schima wallichii</i>     | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| 14    | <i>Schima wallichii</i>     | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| 15    | <i>Schima wallichii</i>     | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| 16    | <i>Schima wallichii</i>     | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| 17    | <i>Schima wallichii</i>     | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| 18    | <i>Ganophyllum falcatum</i> | Semai | 0            | 0             | 0       | 0        |                         |                       |                           |
| Total |                             |       |              |               |         |          |                         |                       | 4.44                      |

| Nama Vegetasi   | Kelas | Jumlah | Persentase (%) |
|---|-------|--------|----------------|
| <i>Schima wallichii</i>                               | Tiang | 11     | 61             |
| <i>Swietenia mahagoni</i>                             | Tiang | 1      | 6              |
| <i>Schima wallichii</i>                               | Semai | 5      | 27             |
| <i>Ganophyllum falcatum</i>                           | Semai | 1      | 6              |
| Total   |       | 18     | 100            |
| <i>Schima wallichii</i>                               |       | 67+28  | 95             |
| <i>Schima wallichii</i> + <i>Ganophyllum falcatum</i> |       | 28 + 5 | 33             |



**Lampiran 8. Inventarisasi Tegakan di Sekitar Plot Pada Kelerengan 20%**

**Plot 3**

| No    | Jenis Pohon                     | Kelas   | Keliling(cm) | Diameter (cm) | Tbc (m) | Ttot (m) | LBDS (cm <sup>2</sup> ) | LBDS (m) <sup>2</sup> | LBDS (m) <sup>2</sup> /ha |
|-------|---------------------------------|---------|--------------|---------------|---------|----------|-------------------------|-----------------------|---------------------------|
| 1     | <i>Artocarpus heterophyllus</i> | Pohon   | 85           | 27.07         | 9.88    | 19.12    | 575.24                  | 0.057                 | 14.25                     |
| 2     | <i>Schima wallichii</i>         | Tiang   | 33           | 10.51         | 5.21    | 11.52    | 86.70                   | 0.086                 | 2.15                      |
| 3     | <i>Schima wallichii</i>         | Tiang   | 33           | 10.51         | 6.13    | 13.24    | 86.70                   | 0.086                 | 2.15                      |
| 4     | <i>Aleurites moluccana</i>      | Tiang   | 41           | 13.06         | 10.17   | 19.35    | 133.84                  | 0.133                 | 33.25                     |
| 5     | <i>Schima wallichii</i>         | Pancang | 30           | 9.55          | 4.73    | 8.23     | 71.66                   | 0.071                 | 1.775                     |
| 6     | <i>Schima wallichii</i>         | Tiang   | 35           | 11.15         | 3.42    | 21.98    | 97.53                   | 0.009                 | 2.25                      |
| 7     | <i>Schima wallichii</i>         | Tiang   | 32           | 10.19         | 8.21    | 13.21    | 81.53                   | 0.0081                | 2.02                      |
| 8     | <i>Schima wallichii</i>         | Tiang   | 43           | 13.69         | 6.65    | 18.92    | 147.21                  | 0.0147                | 3.67                      |
| 9     | <i>Aleurites moluccana</i>      | Tiang   | 42           | 13.38         | 8.23    | 14.75    | 140.45                  | 0.014                 | 3.5                       |
| 10    | <i>Schima wallichii</i>         | Tiang   | 39           | 12.42         | 8.74    | 16.39    | 121.10                  | 0.012                 | 3                         |
| 11    | <i>Schima wallichii</i>         | Tiang   | 42           | 13.38         | 8.48    | 18.8     | 140.45                  | 0.014                 | 3.5                       |
| 12    | <i>Schima wallichii</i>         | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 13    | <i>Schima wallichii</i>         | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 14    | <i>Schima wallichii</i>         | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 15    | <i>Schima wallichii</i>         | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 16    | <i>Curcuma longa</i>            | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| 17    | <i>Curcuma longa</i>            | Semai   | 0            | 0             | 0       | 0        |                         |                       |                           |
| Total |                                 |         |              |               |         |          |                         |                       | 6.501                     |

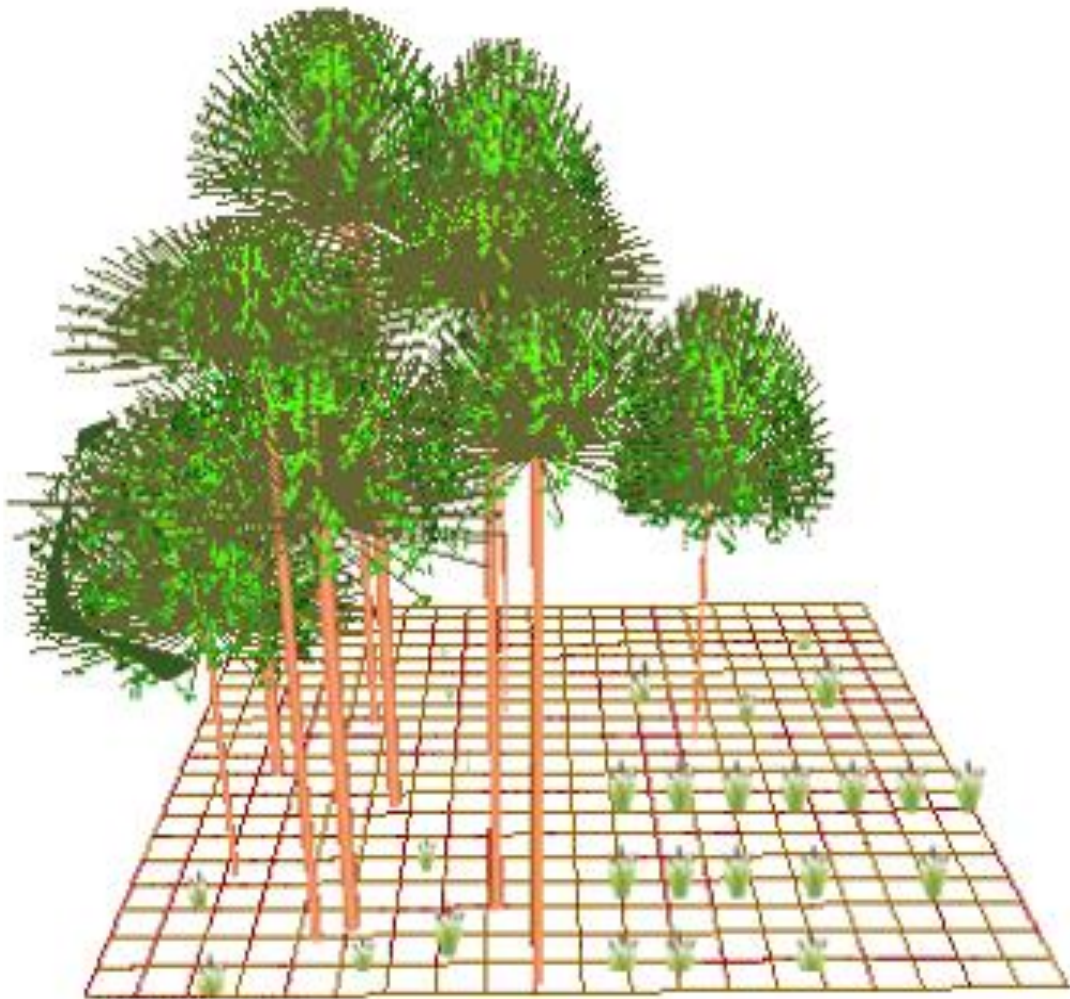
| Nama Vegetasi  | Kelas   | Jumlah  | Persentase (%) |
|--|---------|---------|----------------|
| <i>Artocarpus heterophyllus</i>                        | Pohon   | 1       | 6              |
| <i>Aleurites moluccana</i>                             | Tiang   | 1       | 6              |
| <i>Schima wallichii</i>                                | Tiang   | 8       | 52             |
| <i>Schima wallichii</i>                                | Pancang | 1       | 6              |
| <i>Schima wallichii</i>                                | Semai   | 4       | 23             |
| <i>Curcuma longa</i>                                   | Semai   | 1       | 6              |
| Total  |         | 17      | 100            |
| <i>Schima wallichii</i>                                |         | 47+6+23 | 76             |
| <i>Schima wallichii</i> + <i>Curcuma longa</i> (Semai) |         | 23 +12  | 35             |

Plot 4

| No    | Jenis Pohon                    | Kelas   | Keliling(cm) | Diameter (cm) | Tbc (m) | Ttot (m) | LBDS (cm <sup>2</sup> ) | LBDS (m) <sup>2</sup> | LBDS (m) <sup>2</sup> /ha) |
|-------|--------------------------------|---------|--------------|---------------|---------|----------|-------------------------|-----------------------|----------------------------|
| 1     | <i>Aleurites moluccana</i>     | Tiang   | 55           | 17.52         | 3.42    | 21.98    | 240.84                  | 0.024                 | 6                          |
| 2     | <i>Aleurites moluccana</i>     | Tiang   | 54           | 17.20         | 7.73    | 19.52    | 232.17                  | 0.023                 | 5.75                       |
| 3     | <i>Schima wallichii</i>        | Tiang   | 37           | 11.78         | 4.54    | 7.97     | 109.00                  | 0.011                 | 2.75                       |
| 4     | <i>Schima wallichii</i>        | Tiang   | 35           | 11.15         | 9.29    | 21.98    | 97.53                   | 0.010                 | 2.25                       |
| 5     | <i>Arenga pinnata</i>          | Pohon   | 230          | 73.25         | 3.79    | 19.52    | 4211.78                 | 0.421                 | 105.25                     |
| 6     | <i>Alstonia scholaris</i>      | Tiang   | 49           | 15.61         | 7.25    | 18.8     | 191.16                  | 0.019                 | 4.75                       |
| 7     | <i>Schima wallichii</i>        | Tiang   | 33           | 10.51         | 8.48    | 25.04    | 86.70                   | 0.009                 | 2.15                       |
| 8     | <i>Aleurites mollucana</i>     | Tiang   | 50           | 15.92         | 4.54    | 20.29    | 199.04                  | 0.020                 | 4.75                       |
| 9     | <i>Schima wallichii</i>        | Tiang   | 32           | 10.19         | 4.54    | 9.29     | 81.53                   | 0.008                 | 2                          |
| 10    | <i>Schima wallichii</i>        | Pancang | 30           | 9.55          | 3.99    | 9.87     | 71.66                   | 0.007                 | 1.75                       |
| 11    | <i>Schima wallichii</i>        | Tiang   | 34           | 10.83         | 5.76    | 19.24    | 92.04                   | 0.009                 | 2.25                       |
| 12    | <i>Schima wallichii</i>        | Tiang   | 36           | 11.46         | 7.48    | 12.74    | 103.18                  | 0.010                 | 2.5                        |
| 13    | <i>Schima wallichii</i>        | Tiang   | 37           | 11.78         | 4.83    | 11.29    | 109.00                  | 0.011                 | 2.75                       |
| 14    | <i>Schima wallichii</i>        | Pancang | 30           | 9.55          | 2.89    | 8.75     | 71.66                   | 0.007                 | 1.75                       |
| 15    | <i>Schima wallichii</i>        | Tiang   | 32           | 10.19         | 7.02    | 11.48    | 81.53                   | 0.008                 | 2                          |
| 16    | <i>Schima wallichii</i>        | Tiang   | 35           | 11.15         | 12.2    | 20.29    | 97.53                   | 0.010                 | 2.425                      |
| 17    | <i>Schima wallichii</i>        | Tiang   | 42           | 13.38         | 3.86    | 12.64    | 140.45                  | 0.014                 | 3.5                        |
| 18    | <i>Schima wallichii</i>        | Semai   | 0            | 0             | 0       | 0        | 0.0                     |                       |                            |
| 19    | <i>Melastoma malabathricum</i> | Semai   | 0            | 0             | 0       | 0        | 0                       |                       |                            |
| 20    | <i>Schima wallichii</i>        | Semai   | 0            | 0             | 0       | 0        | 0                       |                       |                            |
| 21    | <i>Schima wallichii</i>        | Semai   | 0            | 0             | 0       | 0        | 0                       |                       |                            |
| 22    | <i>Schima wallichii</i>        | Semai   | 0            | 0             | 0       | 0        | 0                       |                       |                            |
| 23    | <i>Schima wallichii</i>        | Semai   | 0            | 0             | 0       | 0        | 0                       |                       |                            |
| Total |                                |         |              |               |         |          |                         |                       | 9.09                       |

| Nama Vegetasi  | Kelas   | Jumlah   | Persentase (%) |
|--|---------|----------|----------------|
| <i>Arenga pinnata</i>  | Pohon   | 1        | 5              |
| <i>Aleurites mollucana</i>                                       | Tiang   | 3        | 13             |
| <i>Alstonia scholaris</i>  | Tiang   | 1        | 5              |
| <i>Schima wallichii</i>  | Tiang   | 10       | 43             |
| <i>Schima wallichii</i>  | Pancang | 2        | 5              |
| <i>Schima wallichii</i>  | Semai   | 7        | 31             |
| <i>Melastoma malabathricum</i>                                   | Semai   | 1        | 5              |
| Total  |         | 23       | 100            |
| <i>Schima wallichii</i>  |         | 43 +5+21 | 69             |
| <i>Schima wallichii</i> + <i>Melastoma malabathricum</i> (Semai) |         | 31+ 5    | 36             |

**Lampiran 9.** Penutupan Tajuk Plot 1( Sampel 1A) Pada Kelerengan 15%



Keterangan :



= Puspa (*Schima wallichii*)

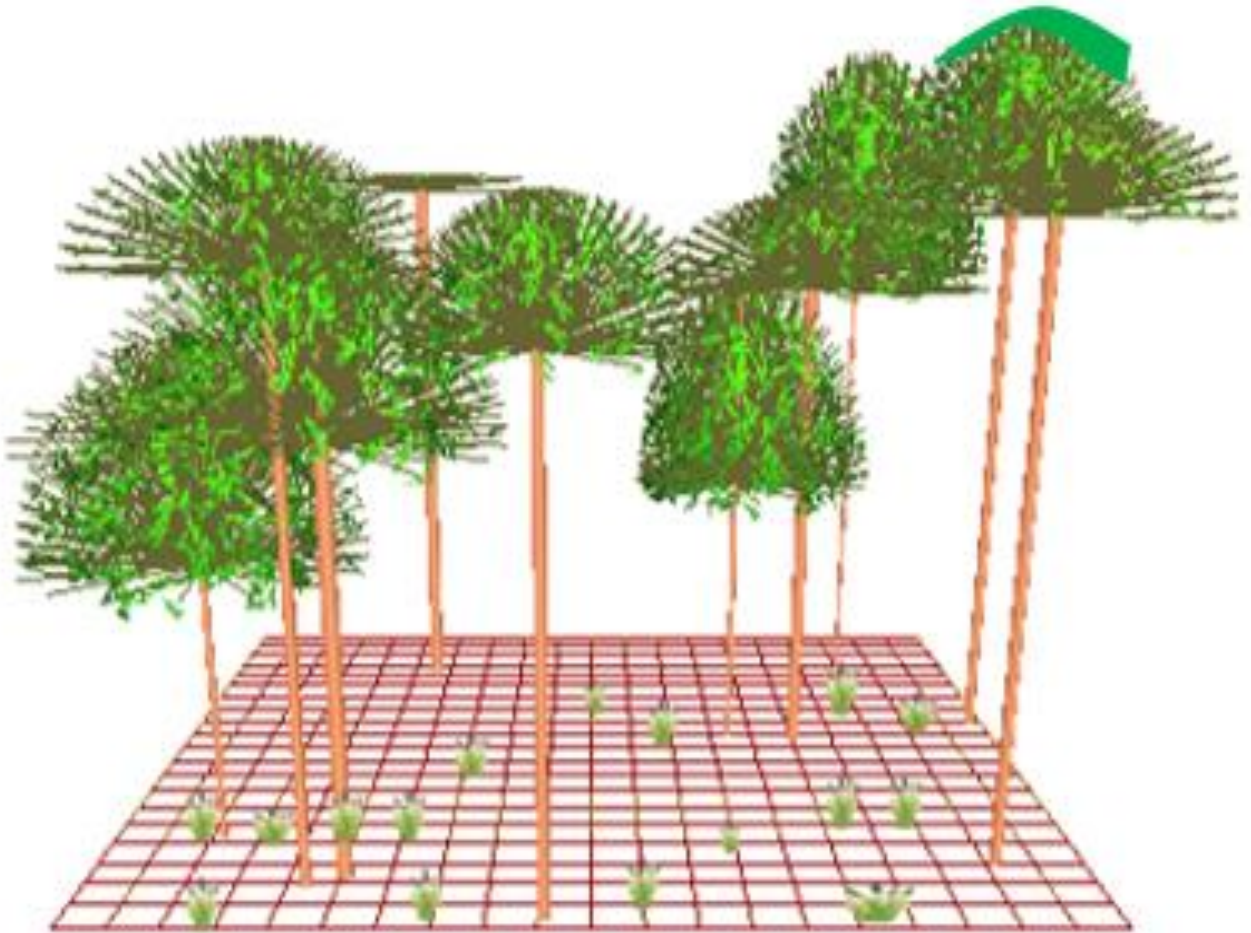


= Kemiri (*Aleurites maluccana*)



= Semai

**Lampiran 10.** Penutupan Tajuk Plot 2 ( Sampel 1B) Pada Kelerengan 15%



Keterangan :



= Puspa (*Schima wallichii*)

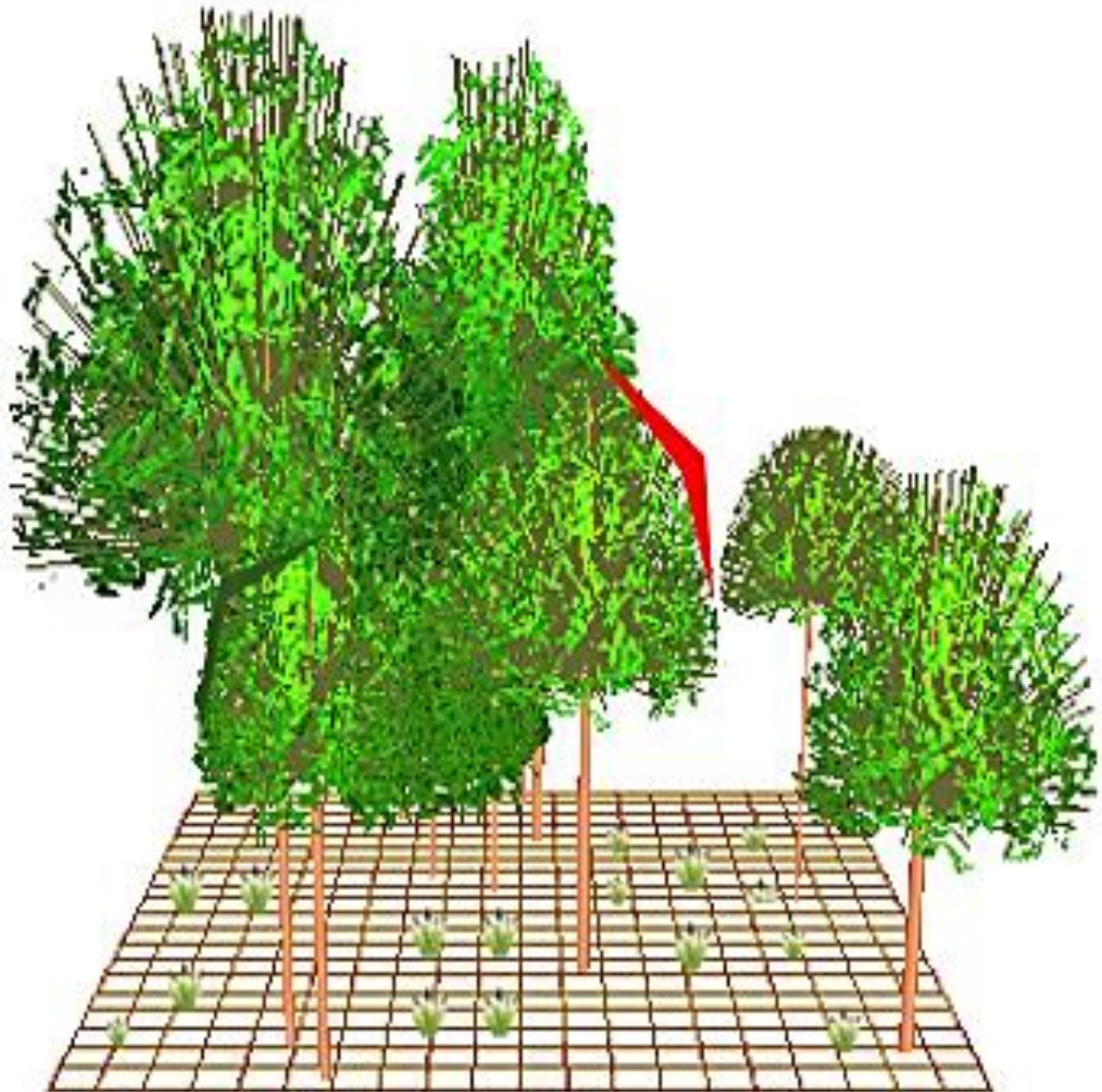


= Mahoni (*Swietenia mahagoni*)



= Semai

**Lampiran 11.** Penutupan Tajuk Plot 3 ( Sampel 2A) Pada Kelerengan 20%



Keterangan :



= Puspia (*Schinus molle*)



= Nangka (*Artocarpus heterophyllus*)

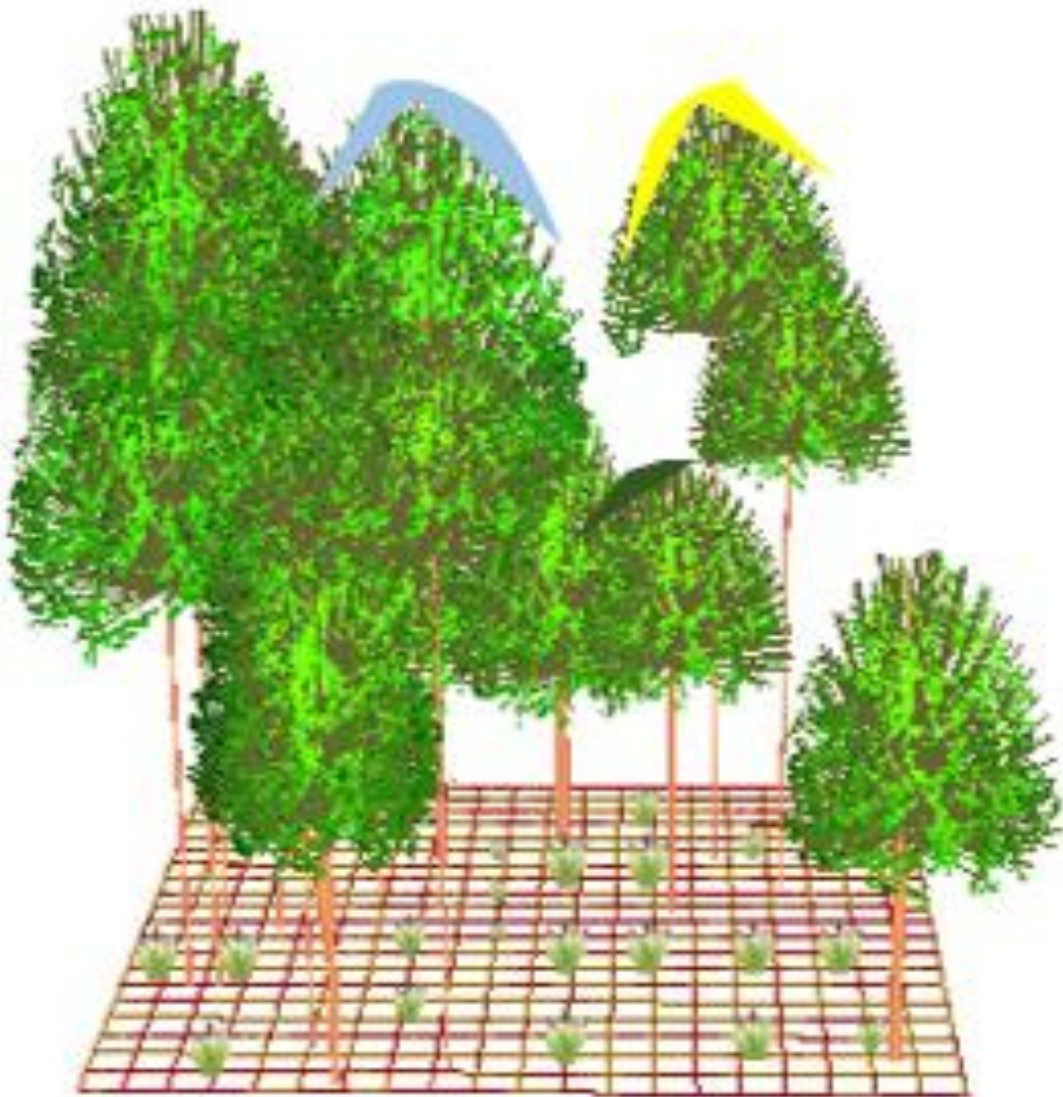


= Kemiri (*Aleurites maluccana*)



= Semai

Lampiran 12. Penutupan Tajuk Plot 4 ( Sampel 2B) Pada Kelerengan 20%



Keterangan :



= Pusa (*ScAra wallichii*)



= Keriri (*Almaria moluccana*)



= Arai (*Amaga piceata*)



= Fulai (*Altonia scholaris*)



= Seral

**Lampiran 13. Keadaan Umum Lokasi Penelitian**



Tegakan Puspa Berumur 6 Tahun

**Lampiran 14. Dokumentasi Plot**



Plot 1 (Lereng 15%)



Plot 2 (Lereng 15%)





Plot 3 (Lereng 20%)



Plot 4 (Lereng 20%)

## Lampiran 15. Dokumentasi Penelitian

### A. Di Lapangan



(a)

Inventarisasi Tegakan



(b)

Pembuatan Plot



(c)

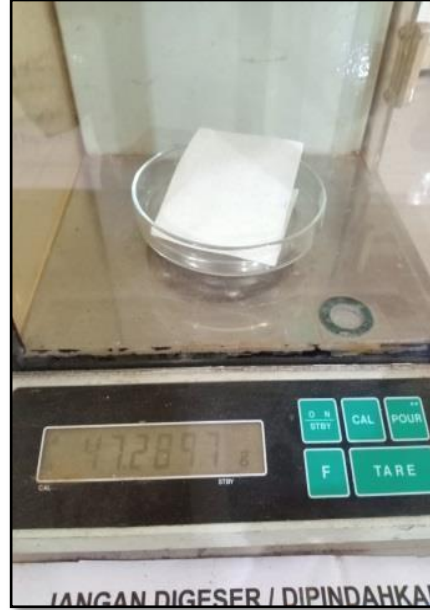
Pengambilan Sampel

## B. Di Laboratorium



(a)

Menimbang Kertas Saring Kosong



(b)

Hasil Timbangan Kertas Saring Kosong



(c)

Menuangkan Sampel sebanyak 20 ml ke Gelas Ukur





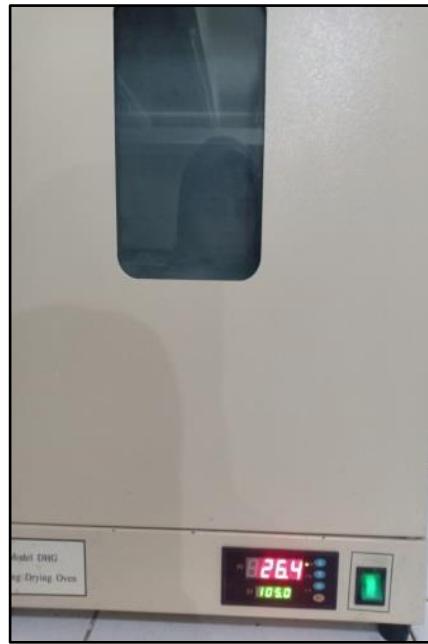
(d)  
Menyaring Sampel Hingga Air Habis



(e)  
Sampel yang Telah Disaring



(f)  
Memasukkan Sampel ke Dalam Oven



(g)  
Mengoven Sampel Pada Suhu 105°C