

DAFTAR PUSTAKA

American Society for Testing and Materials, 1998. *ASTM D 422-63, Standard Test Method for Particle-Size Analysis of Soils*. West Conshohocken, PA: ASTM International.

American Society for Testing and Materials, 2000. *ASTM D1140-00, Standard Test Methods for Amount of Material in Soils Finer Than the No. 200 (75-um) Sieve*. West Conshohocken, PA: ASTM International.

American Society for Testing and Materials, 2002. *ASTM D 854-02, Standard Test Method for Specific Gravity of Soil Solids by Water Pycnometer*. West Conshohocken, PA: ASTM International.

Arsyad, S., 1989. *Konservasi Tanah dan Air*. Bogor: Institut Pertanian Bogor Press.

Assouline, S. & Ben-Hur, M., 2006. Effects of Rainfall Intensity and Slope Gradient on The Dynamics of Interrill Erosion during Soil Surface Sealing. *Catena*, Volume 66, pp. 211-220.

Badan Nasional Penanggulangan Bencana, 2016. *Badan Nasional Penanggulangan Bencana*. [Online]
Available at: <https://www.bnpb.go.id/9-truk-tersapu-lahar-hujan-masih-ada-25-juta-meter-kubik-lahar-di-merapi>
[Accessed 2 September 2019].

Bedient, P. B. & Huber, W. C., 1992. *Hydrology and Floodplain Analysis*. 2nd ed. Boston: Addison-Wesley Publishing Company.

Belizal, E. d. et al., 2013. Rain-Triggered Lahars Following the 2010 Eruption of Merapi Volcano, Indonesia: A Major Risk. *Journal of Volcanology and Geothermal Research*, Volume 261, pp. 330-347.

Chaplot, V. & Bissonnais, Y. L., 2000. Field Measurements of Interrill Erosion Under Different Slopes and Plot Sizes. *Earth Surface Processes and Landforms*, Volume 25, pp. 145-153.

Ekwue, E. I. & Harrilal, A., 2010. Effect of Soil Type, Peat, Slope, Compaction Effort and Their Interactions on Infiltration, Runoff and Raindrop Erosion of some Trinidadian Soils. *Biosystems Engineering*, Volume 105, pp. 112-118.

Giesen, N. V. d., Stomph, T.-J., Ajayi, A. E. & Bagayoko, F., 2011. Scale Effects in Hortonian Surface Runoff on Agricultural Slope in West Africa: Field Data and Models. *Agricultural, Ecosystems and Environment*, Volume 142, pp. 95-101.

Hardiyatmo, H. C., 2012. *Mekanika Tanah 1*. 6 ed. Yogyakarta: Gadjah Mada University Press.

Harto, S., 2000. *Hidrologi*. Yogyakarta: Nafiri Offset.

Horton, R. E., 1933. The Role of Infiltration in the Hydrologic Cycle. *Transactions American Geophysical Union*, Volume 14, pp. 446-460.

Huang, J., Wu, P. & Zhao, X., 2013. Effects of Rainfall Intensity, Underlying Surface and Slope Gradient on Soil Infiltration under Simulated Rainfall Experiment. *Catena*, Volume 104, pp. 93-102.

Jeneau, J.-L., Bricquet, J. P., Planchon, O. & Valentin, C., 2003. Soil Crusting and Infiltration on Steep Slopes in Northern Thailand. *European Journal of Soil Science*, Volume 54, pp. 543-553.

Jiang, F.-s. et al., 2014. Effects of Rainfall Intensity and Slope Gradient on Steep Colluvial Deposit Erosion in Southeast China. *Soil Science Society of America Journal*, Volume 78, pp. 1741-1752.

Jones, R., Thomas, R. E., Peakall, J. & Manville, V., 2017. Rainfall-Runoff Properties of Tephra: Simulated Effects of Grain-Size and Antecedent Rainfall. *Geomorphology*, Volume 282, pp. 39-51.

Joshi, V. U. & Tambe, D. T., 2010. Estimation of Infiltration Rate, Run-Off and Sediment Yield under Simulated Rainfall Experiments in Upper Pravara Basin, India: Effect of Slope Angle and Grass-Cover. *Journal of Earth System Science*, 119(6), pp. 763-773.

Laboratorium Hidraulika DTSL UGM, n.d. *Remote Monitoring Hydraulics Laboratory Civil and Environmental Engineering Departement Universitas Gadjah Mada - Indonesia*. [Online] Available at: <http://data.hydraulic.lab.cce-ugm.ac.id/kr-awlr-01/> [Accessed 7 Mei 2019].

Lavigne, F. et al., 2000. Lahars at Merapi volcano, Central Java: An Overview. *Journal of Volcanology and Geothermal Research*, Volume 100, pp. 423-456.

Lei, T. et al., 2006. A Run Off-on-Ponding Method and Models for The Transient Infiltration Capability Process of Sloped Soil Surface under Rainfall and Erosion Impacts. *Journal of Hydrology*, Volume 319, pp. 216-226.

Liu, D. et al., 2015. Rainfall Intensity and Slope Gradient Effects on Sediment Losses and Splash from A Saline–Sodic Soil under Coastal Reclamation. *Catena*, Volume 128, pp. 54-62.

Liu, H. et al., 2011. Effects of Rainfall Intensity and Antecedent Soil Water Content on Soil Infiltrability under Rainfall Conditions Using The Run-Off-on-Out Method. *Journal of Hydrology*, Volume 396, pp. 24-32.

Morbidelli, R. et al., 2016. Laboratory Investigation on The Role of Slope on Infiltration over Grassy Soils. *Journal of Hydrology*, Volume 543, pp. 542-547.

Morbidelli, R., Saltalippi, C., Flammini, A. & Govindaraju, R. S., 2018. Role of Slope on Infiltration: A Review. *Journal of Hydrology*, Volume 557, pp. 878-886.

Moriasi, D. N. et al., 2007. Model Evaluation Guidelines for Systematic Quantification of Accuracy in Watershed Simulations. *American Society of Agricultural and Biological Engineers*, 50(3), pp. 885-900.

Mu, W. et al., 2015. Effects of Rainfall Intensity and Slope Gradient on Runoff and Soil Moisture Content on Different Growing Stages of Spring Maize. *Water*, Volume 7, pp. 2990-3008.

Nassif, S. H. & Wilson, E. M., 1975. The Influence of Slope and Rain Intensity on Runoff and Infiltration. *Hydrological Sciences Journal*, 20(4), pp. 539-553.

Ningsih, S. & Purnama, I. L. S., 2012. *Kajian Laju Infiltrasi Tanah dan Imbuhan Air Tanah Lokal Sub DAS Gendol Pasca Erupsi Merapi 2010*, Yogyakarta: Fakultas Geografi UGM.

Pratomo, I., 2006. Klasifikasi Gunung Api Aktif Indonesia, Studi Kasus dari Beberapa Letusan Gunung Api dalam Sejarah. *Jurnal Geologi Indonesia*, 1(4), pp. 209-227.

Ran, Q. et al., 2018. Effect of Rainfall Moving Direction on Surface Flow and Soil Erosion Processes on Slope with Sealing. *Journal of Hydrology*, Volume 567, pp. 478-488.

Ribolzi, O. et al., 2011. Impact of Slope Gradient on Soil Surface Features and Infiltration on Steep Slopes in Northern Laos. *Geomorphology*, Volume 127, pp. 53-63.

Rossman, L. A. & Huber, W. C., 2016. *Storm Water Management Model Reference Manual Volume 1 - Hydrology*. Revised ed. Ohio: National Risk Management Laboratory Office of Research and Development U.S. Environmental Protection Agency.

Sala, M. D., 2014. *Genesis and Mechanisms of Rainfall-Induced Hyperconcentrated Flow in Granular Soils*, Fisciano, SA: Universita degli Studi di Salerno.

Schor, H. J. & Gray, D. H., 2007. *Landforming: An Environmental Approach to Hillside Development, Mine Reclamation, and Watershed Restoration*. New Jersey: John Wiley & Sons, Inc..

Schwab, G. O., Fangmeier, D. D., Elliot, W. J. & Frevert, R. K., 1993. *Soil and Water Conservation Engineering*. 4th ed. Toronto: John Wiley & Sons, Inc.

Selles, A., 2014. *Multi-Disciplinary Study on The Hydrogeological Behavior of The Eastern Flank of The Merapi Volcano, Central Java, Indonesia*, Paris: Pierre and Marie Curie University.

Sudradjat, A., Syafri, I. & Paripurno, E. T., 2010. Karakteristik Lahar di Gunung Merapi, Jawa Tengah sebagai Indikator Eksplosivitas pada Holosen. *Jurnal Geologi Indonesia*, 6(2), pp. 69-74.

Triatmojo, B., 2008. *Hidrologi Terapan*. Yogyakarta: Beta Offset Yogyakarta.

Triatmojo, B., 2016. *Metode Numerik*. 9 ed. Sleman: Beta Offset Yogyakarta.

Wang, L., Dalabay, N. & Wu, P. L. :. F., 2017. Effects of Tillage Practices and Slope on Runoff and Erosion of Soil from the Loess Plateau, China, Subjected to Simulated Rainfall. *Soil & Tillage Research*, Volume 166, pp. 147-156.

Wanielista, M., Kersten, R. & Eaglin, R., 1997. *Hydrology: Water Quantity and Quality Control*. 2nd ed. Toronto: John Wilwy & Sons, Inc..