

DAFTAR PUSTAKA

- Agassi, M., Shainberg, I., and Morin, J. (1981). Effect of electrolyte concentration and soil sodicity on infiltration rate and crust formation. *Soil Sci. Soc. Am. J.* 45, 848-51
- Appels, W.M., Bogaart, P.W., van der Zee, S.E.A.T.M., 2016. Surface runoff in flat terrain: How field topography and runoff generating processes control hydrological connectivity. *J. Hydrol.* 534, 493–504. doi:10.1016/j.jhydrol.2016.01.021ba
- Arnold, R.W., 1983. Concepts of soils and pedology. In: Wilding, L.P., Smeck, N.E., Hall, G.F.Ž. Eds., *Pedogenesis and Soil Taxonomy: I. Concepts and Interactions*. Elsevier, Amsterdam, pp. 1–21
- Arsyad, S. 1989. *Konservasi Tanah dan Air*. UPT Produksi Media Informasi. Lembaga Sumberdaya Informasi – IPB. Bogor
- Arsyad, Sitanala. 2000. *Konservasi Tanah dan Air*. Bandung: Penerbit IPB (IPB Press)
- Arsyad, Sitanala. 2006. *Konservasi Tanah dan Air*. Bandung: Penerbit IPB (IPB Press)
- Baldy, C. & Stigter, C.J. 1993. *Agrometeorologie des cultures multiples en regions chaudes*, Ed CTA –INRA, 246 p. (In French).
- Baskan, O., Dengiz, O., & Gunturk, A. 2016. Effects of toposequence and land use-land cover on the spatial distribution of soil properties. *Environmental Earth Sciences*, 75(5), 1–10. <https://doi.org/10.1007/s12665-016-5301-6>
- Bauer, A., Black, A.L.(1992): Organic carbon effects on available water capacity of three soil textural groups. *Soil Sci. Soc. Am. J.*, 56:248-254.
- Ben-Hur, M., Shainberg, I., Bakker, D., and Keren, R. 1985. Effect of soil texture and CaCO₃ content on water infiltration in crusted soils as related to water salinity. *Irrig. Sci.* 6, 281-94.
- Bielders, C.L., De Backer, L.W., Delvaux, B., 1990. Particle density of volcanic soils as measured with a gas pycnometer. *Soil Sci. Soc. Am. J.* 54, 822–826.
- Bisal F. 1960. The effect of rain drop size and impact velocity on sand splash. *Canadian Journal of Soil Science* 40, 242-245
- Camberato JJ. 2001 Cation exchange capacity—everything you want to know and much more. First printed in South Carolina Turfgrass Foundation News, October–December, 2001. <http://ebookbrowse.com/cation-exchange-capacity-pdf-d19788599>.
- Chadwick, K. D., & Asner, G. P. (2016). Tropical Soil Nutrient Distributions Determined By Biotic And Hillslope Processes. *Biogeochemistry*, 127, 273–289.
- Chalise, D., Kumar, L., & Kristiansen, P. 2019. Land degradation by soil erosion in Nepal: A review. *Soil Systems*, 3(1), 1–18. <https://doi.org/10.3390/soilsystems3010012>
- Chaudhari, P. R., Ahire, D. V, Ahire, V. D., Chkravarty, M., & Maity, S. (2013). Soil Bulk Density

- as related to Soil Texture, Organic Matter Content and available total Nutrients of Coimbatore Soil. International Journal of Scientific and Research Publications, 3(1), 2250–3153. www.ijsrp.org
- Chow, T.L., Rees, H.W., Daigle, J.L., 1999. Effective ness of terraces/grassed waterway systems for soil and water conservation: a field evaluation. Journal of Soil and Water Conservation 54, 577–583.
- Ciampalini, R., Follain, S., Le Bissonnais, Y., 2012. LandSoil: a model for analysing the impact of erosion on agricultural landscape evolution. Geomorphology 175, 25–37, <http://dx.doi.org/10.1016/j.geomorph.2012.06.014>.
- Dlamini, P et al. 2010. Controlling factors of sheet erosion under degraded grasslands in the sloping lands of KwaZulu-Natal, South Africa. Elsevier : Agricultural Water Management
- Effendy, Z., Setiawan, M. A., & Mardiatno, D. (2019). Geospatial-Interface Water Erosion Prediction Project (GeoWEPP) application for the planning of Bompon Watershed conservation- prioritized area , Magelang, Central Java , Indonesia Geospatial-Interface Water Erosion Prediction Project (GeoWEPP)
- Elhakim, A. F. 2016. Estimation of soil permeability. *Alexandria Engineering Journal*, 55(3), 2631–2638. <https://doi.org/10.1016/j.aej.2016.07.034>
- Ellison, W.D. 1944. Studie of raindrop erosion. Agricultural Engineering 25, 131-136
- Ezeaku, P. I., Anikwe, M. A. (2005). A Model For Description Of Water And Solute Movement In Soil-Water Restrictive Horizons Across Two Landscapes In South-East Nigeria. Journal of Soil Science 171(6), 492–500.
- FAO. 2005. The Importance Of Soil Organicmatter, Key To Drought-Resistant Soil And Suistained Food And Production. FAO of The United Nation. Rome.
- Fu BJ, Chen LD, Ma KM, Zhou HF, Wang J. 2000 The relationships between land use and soil conditions in the hilly area of the Loess Plateau in northern Shaanxi China. Catena 39:69–78
- Gallart, F., Llorens, P. and Latron, J. 1994. Studying the role of old agricultural terraces on runoff generation in a small Mediterranean mountainous basin. Journal of Hydrology 159(1-4): 291-303.
- Govers, G., Van Oost, K., Poesen, J., 2006. Responses of a semi-arid landscape to human disturbance: a simulation study of the interaction between rock fragment cover, soil erosion and land use change. Geoderma 133, 19–31.
- Grêt-Regamey, A., Sirén, E., Brunner, S.H., Weibel, B., 2016. Review Of Decision Support Tools To Operationalize The Ecosystem Services Concept. Ecosyst. Serv. <http://dx.doi.org/10.1016/j.ecoser.2016.10.012>. in press
- Guerra, A., 1994. The effect of organic matter content on soil erosion in simulated rainfall experiments in W. Sussex, UK. Soil Use Manag. 10 (2), 60–64

- Gyssels, G., Poesen, J., Bochet, E., Li, Y., 2005. Impact of plant roots on the resistance of soils to erosion by water: a review. *Progress in Physical Geography* 22, 189–217
- Hardjowigeno, Sarwono. 1995. *Imu Tanah*. Jakarta: Akademika Presindo
- Haygarth, P.M., Ritz, K., 2009. The Future Of Soils And Land Use In The UK: Soil Systems For The Provision Of Land-Based Ecosystem Services. *Land Use Policy* 26 (Suppl. 1), S187–S197. <http://dx.doi.org/10.1016/j.landusepol.2009.09.016>
- Jahantigh, M., & Pessarakli, M. (2011). Causes and effects of gully erosion on agricultural lands and the environment. *Communications in Soil Science and Plant Analysis*, 42(18), 2250–2255. <https://doi.org/10.1080/00103624.2011.602456>
- Kateb, Hany El *et al.* 2012. Soil Erosion And Surface Runoff On Different Vegetation Covers And Slope Gradients: A Field Experiment In Southern Shaanxi Province, China. *Catena*. <http://dx.doi.org/10.1016/j.catena.2012.12.012>
- Khorshidi, M., & Lu, N. 2017. Determination of Cation Exchange Capacity from Soil Water Retention Curve. *Journal of Engineering Mechanics*, 143(6), 04017023. [https://doi.org/10.1061/\(asce\)em.1943-7889.0001220](https://doi.org/10.1061/(asce)em.1943-7889.0001220)
- Kimble JM, Lal R, Mausbach M. 2001. Erosion effects on soil organic carbon pool in soils of Iowa. In 'Proceedings of the 10th International Soil Conservation Organization Meeting on Sustaining the Global Farm', 24–29 May 1999. Purdue University, Indiana. (Eds DE Stott, RH Mohtar, GC Steinhardt) pp. 474–477.
- Lado, M. Ben-Hur, M. 2004. *Soil mineralogy effects on seal formation , runoff and soil loss*. 24, 209–224. <https://doi.org/10.1016/j.clay.2003.03.002>
- Lal, R., 1990. *Soil Erosion in the Tropics: Principles and Management*. McGraw-Hill, New York
- Lasanta, T., Arnaez, J., Oserin, M., and Ortigosa, L.M., 2001. Marginal lands and erosion in terraced fields in the Mediterranean mountains. *Mountain Research and Development* 21(1): 69-76.
- Li, P., Li, Z. B., and Zheng, Y. 2011. Effect of different elevation on soil physical-chemical properties and erodibility in dry-hot valley, *Bull. Soil Water Conserv.*, 31, 103–107, <https://doi.org/10.13961/j.cnki.stbctb.2011.04.034>
- Liu, T *et al.* 2016. Effects of rainfall intensity on splash erosion and its spatial distribution under maize canopy. DOI 10.1007/s11069-016-2418-6
- Ma B, Yu X, Ma F, Li Z, Wu F. 2014. Effects of Crop Canopies on Rain Splash Detachment. *PLoS ONE* 9(7)
- McBratney, A., Field, D.J., Koch, A., 2014. The Dimensions Of Soil Security. *Geoderma* 213, 203–213. <http://dx.doi.org/10.1016/j.geoderma.2013.08.013>
- McBride, R.A., Slessor, R.L., Joosse, P.J., 2012. Estimating the particle density of clay-rich soils with diverse mineralogy. *Soil Sci. Soc. Am. J.* 76, 569–574
- Mhazo, N., Chivenge, P., Chaplot, V., 2016. Tillage impact on soil erosion by water:

discrepancies due to climate and soil characteristics. *Agric. Ecosyst. Environ.* 230, 231–241.

Moore, D.C. dan Singer, M.J. 1990. Crust formation effects on soil erosion processes. *Soil Science Society of America Journal*, 54,117-1123

Morgan,1979. *Soil Erosion*.New York: Logman

Morgan, R.P.C., 1986. *Soil erosion and conservation*. Longman Group UK Ltd., Essex: 295 pp.

Moussa, R., 2008, Effect of channel network topology, basin segmentation and rainfall spatial distribution on the geomorphologic instantaneous unit hydrograph transfer function. *Hydrol. Process.* 22, 395–419, 790

Mulugeta, D., Sheleme, B. 2010. Characterization and Classification of Soils along the Toposequence of Kindo Koye Watershed in Southern Ethiopia. *East African Journal of Sciences Volume 4 (2)* 65-77.

Nhu, V. H., Janizadeh, S., Avand, M., Chen, W., Farzin, M., Omidvar, E., Shirzadi, A., Shahabi, H., Clague, J. J., Jaafari, A., Mansoorypoor, F., Pham, B. T., Ahmad, B. Bin, & Lee, S. (2020). GIS-Based gully erosion susceptibility mapping: A comparison of computational ensemble data mining models. *Applied Sciences (Switzerland)*, 10(6), 1–29. <https://doi.org/10.3390/app10062039>

Oades, J.M. 1989. An Introduction to Organic Matter in Mineral Soils, pp. 89. IN: J.B. Dixon and S.B. Weed (eds.) *Minerals in Soil Environments*. Soil Science Society of America, Madison, WI.

Parfitt,R.L. Giltrap, D.J. and Whitton, J.S. 1995. Contribution of organic matter and clay minerals to the cation exchange capacity of soils. *Manaaki Whenua - Landcare Research*, PB 11 052, Palmerston North, New Zealand. *Commun. Soil Sci. Plant Anal.*, 26(9&10), 1343-1355

Piccolo, A., 1996. Humus and soil conservation. In: Piccolo (Eds.), *Humic Substances in Terrestrial Ecosystems*. Elsevier Science B.V, Amsterdam, pp. 225–264

Pimentel, D. 1997. *Soil Erosion*. Environment 39

Pimentel, D., 2006. *Soil Erosion: A Food And Environmental Threat*. Environment, Development And Sustainability. 8, 119–137

Pohl, M., Graf, F., Buttler, A., Rixen, C. 2012. The relationship between plant species richness and soil aggregate stability can depend on disturbance. *Plant Soil* (2012) 355:87–102

Putri, Marisa Dwi, *et al.* 2017. Karakteristik Beberapa Sifat Tanah Pada Berbagai Posisi Lereng Dan Penggunaan Lahan Di Das Ciliwung Hulu. *J. Il. Tan. Lingk.*, 19 (2) ISSN 1410-7333.

Rachman, A., S.H. Anderson., C.J. Gantzer., E.E. Albertz. 2004. Soil hidraulic properties influenced by stiff-stemmed grass hedge system. *Soil Sci. Soc. Am. J.* 68 : 1.386-1.393

Rahardjo, W., Sukandarrumidi dan Rosidi, HMD., 1995, Peta Geologi Lembar Yogyakarta, Pusat Penelitian dan Pengembangan Geologi, Bandung

Sadiq *et al.* 2021. Variation of Soil Properties Under Different Landscape Positions And Land Use In Hunkuyi, Northern Guinea Savanna Of Nigeria. Springer Nature Switzerland.
<https://doi.org/10.1007/s10661-021-08974-7>

Schaaf, W., Elmerb, M., Fischer, A., Gerwinb, W., Nenovb, R., Pretzschd, H., Zaplatac, M.K., 2013. Feedbacks between vegetation, surface structures and hydrology during initial development of the artificial catchment 'Chicken Creek ', *Procedia Environmental Sciences* 19, 86 – 95.

Shaver, T.M., Peterson, G.A., and Sherrod, L.A. 2003. Cropping intensification in dryland systems improves soil physical properties: regression relations. *Geoderma* 116: 149–164

Simonson, R.W., 1959. Outline of a generalized theory of soil genesis. *Soil Sci. Soc. Am. Proc.* 23, 152–156

Singer, A., 1994. Clay mineralogy as affecting dispersivity and crust formation in aridisols. In: Etchevers, J.D. (Ed.), *Transactions of the 15th World Congress of Soil Science. Acapulco, Mexico. Int. Soc. Soil Sci. and Mexican Soc. Soil Sci., Acapulco, Mexico, vol. 8a.*

Singer, M.J., Bissonnais, Y.L., 1998. Importance of surface sealing in the erosion of some soils from a Mediterranean climate. *Geomorphology* 24, 79–85.

Smith, D.D, Wischmeier, W.H. 1962. Rainfall erosion. United States Department of Agriculture, Beltsville, Maryland, and Purdue Agricultural Experiment Station, Lafayette, Indiana

Stanchi, S., G. Falsone. 2015. Soil Aggregation, Erodibility, And Erosion Rates In Mountain Soils (NW Alps, Italy). *Solid Earth*, 6, 403–414, 2015 doi:10.5194/se-6-403-2015

Stocking, M.A., Murnaghan, N., 2000. Land Degradation - Guidelines For Field Assessment, Overseas Development Group, University of East Anglia, Norwich, UK

Terry JP. 1992. Rainsplash detachment and soil erosion in the Agueda Basin, Portugal: the effects of forest fire and land management changes. PhD thesis, University College of Swansea, University of Wales, Swansea, UK

Thomas, G. A., Dalal, R. C., & Standley, J. 2007. No-till effects on organic matter, pH, cation exchange capacity and nutrient distribution in a Luvisol in the semi-arid subtropics. *Soil and Tillage Research*, 94(2), 295–304. <https://doi.org/10.1016/j.still.2006.08.005>

Tuncay, Tulay *et al.* 2019. Influence of Toposequence on Physical and Mineralogical Properties of Soils Developed on Basaltic Parent Material Under Sub-humid Terrestrial Ecosystem. *Journal of Agricultural Sciences*. DOI: 10.15832/ankutbd.499353

Valentin, C., Poesen, J., & Li, Y. (2005). Gully erosion: Impacts, factors and control. *Catena*,

- Volchko, Y., Norrman, J., Bergknut, M., Rosén, L., Söderqvist, T., 2013. Incorporating The Soil Function Concept Into Sustainability Appraisal Of Remediation Alternatives. *J. Environ. Manage.* 129, 367-376. <http://dx.doi.org/10.1016/j.jenvman.2013.07.025>
- Wang, X.D., Wang, Z.Y., 1999. Effect of land use change on runoff and sediment yield. *Int. J. Sediment Res.* 14, 37-44
- Wischmeier, W. H., Johnson, C. B., and Cross, B. V. 1971. Soil erodibility nomograph for farmland and construction sites, *J. Soil Water Conserv.*, 26, 189-193, <https://doi.org/10.2307/3896643>
- Wischmeier, W.H., Smith, D.D., 1978. Predicting Rainfall Erosion Losses: A Guide To Conservation Planning. U.S. Dept. Agric., Agric. Handb., 537
- Yahya, M.S. 2021. Distribusi Karakteristik Dan Satuan Tanah Di Bagian Hulu Sub -Das Bompon, Magelang. Fakultas Pertanian Universitas Gadjah Mada : Yogyakarta
- Zhang ZG, Fan BE, Bai WJ, Jiao JY 2007. Soil Anti-Erodibility Of Plant Communities On The Removal Lands In Hilly-Gully Region Of The Loess Plateau. *Sci. Soil Water Conserv.*, 5:7-13
- Zhao P, Shao MA, Omran W, Amer AM 2011. Effects Of Erosion And Deposition On Particle Size Distribution Of Deposited Farmland Soils On The Chinese Loess Plateau. *Revista Brasileira de Ciência do Solo* 35: 2135-2144. - doi: 10.1590/S0 100-06832011000600028