

## REFERENCES

- Abdel-shafy, H.I., M. F. Abdel-sabour. 2006. Wastewater reuse for irrigation on the desert sandy soil of Egypt: Long-term effect integrated urban water resources management. Springer. 1:301-312.
- Abd-Elwahed. 2018. Influence of long-term wastewater irrigation on soil quality and its spatial distribution. *Annals of Agricultural Sciences*. 1:1-9
- Abedi-Koupai, J., B. Mostafazadeh-Fard., M. Afyuni., M. R. Bagheri. 2006. Effect of treated wastewater on soil chemical and physical properties in arid region. *Plant Soil and Environment*. 52:335-347.
- Akpor, O. B., G. O. Ohiobor., T. D. Olaolu. 2014. Heavy metal pollutants in wastewater effluents: Sources, effects and remediation. *Advances in Bioscience and Bioengineering*. 4:37-43
- Al-Rashed, M. F., M. M. Sherif. 2000. Water resources in the GCC countries: an overview. *Water Resources Management*. 14: 59-75.
- Alzboon, K., N. Alananzeh. 2008. Performance of wastewater treatment plants in Jordan and suitability for reuse, *African Journal of Biotechnology*. 7:2621-2629.
- Amin, M. M., H. Hashemi., A. M. Bovini., Y. T. Hung. 2013. A review on wastewater disinfection. *International Journal Environment Health Engineering*. 2:22.
- Ayers, R.S., D. W. Westcot. 1994. *Water Quality for Agriculture*. FAO. Rome.
- Bauder. T. A., R. M. Waskom., P. L. Sutherland., J.G. Davis. 2011. *Irrigation Water Quality Criteria*. Colorado State University Extension. USA.
- Bedbabis, S., B. B. Rouina., M. Boukhris., G. Ferrara. 2014. Effect of irrigation with treated wastewater on soil chemical properties and infiltration rate. *Journal of Environmental Management*. 133:45-50.
- Bolan, N. S., M. J. Hedley., R. E. White. 1991. Processes of soil acidification during nitrogen cycling with emphasis on legume based pastures. *Plant Soil*. 134:53-63.
- Bouman, B. 2009. How much water does rice use. *Rice Today*. 8:28-29.
- Castro, E., M. P. Manas., J. D. L. Heras. 2011. Effect of wastewater irrigation on soil properties and turfgrass growth. *Water Science and Technology*. 8
- Chakraborty, K., B. Mistri. 2015. Importance of Soil Texture in Sustenance of Agriculture: A Study in Burdwan-I C. D. Block, Burdwan, West Bengal. *Eastern Geographer*. 01: 475-482.
- Chapagain, A.K., A. Y. Hoekstra. 2010. The green, blue and grey water footprint of rice from both a production and consumption perspective. Value of water research report series no. 40. Netherlands.

- Chung, B. Y., C.H.Song., B. J. Park., J.Y. Cho. 2011. Heavy metals in brown rice (*Oryza sativa* L.) and soil after long-term irrigation of wastewater discharged from domestic sewage treatment plants. *Pedosphere*. 21:621-627.
- Clay, S., A. Hodgkinson., J. Upton., M. Green. 1996. Developing acceptable sewage screening practices. *Water Science and Technology*. 33:229–234.
- Corwin, D. L. 2005. Geospatial measurements of apparent soil electrical conductivity for characterizing soil spatial variability. CRC Press. Florida.
- Cushnie, G. C. 1985. Electroplating wastewater pollution control technology. Noyes Publication. New Jersey.
- Department of the Army. Technical manual: Evaluation Criteria Guide for Water Pollution Prevention, Control and Abatement Programs. Headquarter Publisher. Washington, DC.
- Dey, R., A.K. Dash., N. Panda., R.R. Dash., B.R. Nayak., S.G. Sahu. 2019. Effect of Continuous Irrigation on Soil Texture, Bulk Density and Saturated Hydraulic Conductivity of Some Soils in Hirakud Command Area of Odisha, India. *International Journal of Current Microbiology and Applied Sciences*. 08: 836-843.
- EPA. 1998. How wastewater treatment works: The basics. Enviromental Protection Agency. Washington, DC.
- EPA. 2002. Establishing treatment system performance requirements <<http://www.epa.gov/nrmrl/pubs/625r00008/html/625R00008chap3.html>> Diakses 12 Maret 2020.
- FAO. 1992. Wastewater treatment and use in agriculture. FAO. Rome.
- FAO. 2004. Economic Valuation of Water Resources in Agriculture from the Sectoral to a Functional Perspective of Natural Resource Management. FAO. Rome.
- FAO. 2003. Unlocking the Water potential of agriculture. FAO. Rome.
- Fonseca, A. F., U. Herpin., A. M. Paula., R. L. Victoria., A. J. Melfi. 2007. Agricultural use of treated sewage effluents: agronomical-enviromental implication and perspectives for Brazil. *Scientia Agricola*. 64:194-209
- Grisso, R. D., A. Marcus., D. L. Holshouser., W. E. Thomason. 2005. Precision Farming Tools, Soil Electrical Conductivity. Virgina Cooperative Extension. USA.
- Hakim, N. 1986. Dasar-Dasar Ilmu Tanah. Universitas Lampung. Lampung.
- Hamarashid, N.H., M.A. Othman., M.H. Hussain., Effects of Soil Texture on chemical compositions, microbial populations and carbon mineralization in soil. *Egyptian Journal of Experimental Biology*. 6: 59-64.

- Heritage, J., E. Evans., R. Kellington. 2003. *Microbiology in Action*. Cambridge University Press. United Kingdom
- Hung, Y. T., K. Alzboon., J. Radaideh. 2012. *Municipal wastewater treatment. Handbook of environment and waste management*. World Scientific. Singapore.
- Jnab, I., B. Lesikar., A. Kenimer., G. Sabbagh. 2001. Subsurface drip irrigation of residential effluent: I. Soil chemical characteristics. *Trans. ASAE* 44 (5): 1149–1157.
- Killpack, S. C., D. Buchholz. 1993. *Nitrogen in the Environment: Ammonia Volatilization*. Extension University of Missouri. Missouri.
- Kirpichtchikova, T. A., A. Manceau., L. Spadini., F. Panfili. 2006. Speciation and solubility of heavy metals in contaminated soil using X-ray microfluorescence, EXAFS spectroscopy, chemical extraction, and thermodynamic modeling. *Geochimica et Cosmochimica Acta*. 70:2163-2190.
- Majumdar, D. P. 2001. *Irrigation Water Management: Principles and Practices*. PHI Learning Pvt. India.
- Mara, D. 2003. *Domestic wastewater treatment in developing countries*. Earthscan. London
- Mateo-Sagasta, J., K. Medlicott., M. Qadir., L. Raschid-Sally., P. Drechsel., J. Liebe. 2013. *Proceedings of the UN-Water project on the: Safe Use of Wastewater in Agriculture*. UNW-DPC. Germany.
- Metcalf, L., H. P. Eddy. 1991. *Wastewater treatment, disposal and reuse*, third edition. McGraw Hill. New York.
- Metcalf & Eddy, Inc. 2014. *Wastewater engineering: Treatment and reuse*. McGraw-Hill. New York.
- Moriyama, K., T. Mori., H. Arayashiki., H. Saito., M. Chino. 1989. The amount of heavy metals derived from domestic wastewater. *Water Science and Technology*. 21:1913-1916.
- Munns, R. 2002. Comparative physiology of salt and water stress. *Plant Cell and Environment*. 25: 239-250.
- Nakagomi, K., M. Yamaguchi., T. Endo. 2006. Breeding of a new rice [*Oryza sativa*] cultivar, 'Bekoaoba', for whole-crop silage adapted to direct-seeding cultivation. *Agris*. 106: 1-14.
- Nathanson, J. A. 2010. *Wastewater Treatment*. Encyclopedia Britannica. London.
- National Research Council. 1996. *Use of Reclaimed Water and Sludge in Food Crop Production*. The National Academies Press. Washington, DC.

- Natural Resources Conservation Service (NRCS). 2011. Saline and Sodic Soil Management. USDA. USA.
- Oelmann, Y., Y. Kreutziger., R. Bol., W. Wilcke. 2007. Nitrate leaching in soil: Tracing the NO<sub>3</sub><sup>-</sup> sources with the help of stable N and O isotopes. *Soil Biology and Biochemistry*. 12:3024-3033.
- Oron, G., C. Campos., L. Gillerman., M. Salgot., 1999. Wastewater treatment, renovation and reuse for agricultural irrigation in small communities. *Agric. Water Manage.* 38: 223–234.
- Patria, N.K., W. Cheng., B. H. Purwanto., S. N. H. Utami. Changes in the Soil pH, Ec, Available-P, DOC and Inorganic-N After Land Use Change From Rice Paddy In Northeast Japan. *Journal of Wetlands Enviromental Management*. 5:53-61.
- Pereira, E. L., F. Motteran., C. M. M. Campos. 2013. Physicochemical study o pH, alkalinity and total acidity in a system composed of anaerobic baffled reactor (ABR) in series with upflow anaerobic sludge blanket reactor (UASB) in the treatment of pig farming wastewater. *Acta Scientiarum Technology*. 35:477-483.
- Pessoa, C. A., E. P. Joardao. 1982. Domestic Sewage Treatment. ABES. Rio de Janeiro.
- Raisei, F. 2006. Carbon and N Mineralization as affected by soil cultivation and crop residue in a calcareous wetland ecosystem in Central Iran. *Agriculture Ecosystem Environment*. 112:13-20.
- Raschid-Sally, L., P. Jayakody. 2008. Drivers and characteristics of wastewater agriculture in developing countries: results from a global assessment. International Water Management Institute. Sri Lanka.
- Ritchey, E. L., J. M. McGrath., D. Gehring. 2015. Determining soil texture by feel. Agriculture and Natural Resources Publications. University o Kentucky. USA.
- Rolands, T. D., P. A. Richards. 1996. Unit operations and process in enviromental engineering, second edition. PWS Publishing Company. Boston.
- Ross, D. S., Q. Ketterings. 2011. Reccomended Methods for Determining Soil Cation Exchange Capacity. Cooperative Bulletin. 493: 75-86.
- Saxton, K. E., W. J. Rawls., J.S. Romberger., R.I. Papendick. 1986. Estimating generalized soil water characteristics from texture. *Trans ASAE*. 50:1031
- Schipper, L. A., J. C. Williamson., H. A. Kettles., T. W. Speir. 1996. Impact of land applied tertiary-treated effluent on soil biochemical properties. *Journal of Environment Quality*. 25:1073-1077.
- Schwenke, G. 2014. Nitrogen volatilisation: Factors affecting how much N is lost and how much is left over time. Grant Research & Development Corporation. Australia.

- Sonune, A., R. Ghate. 2004. Developments in wastewater treatment methods. *Desalination*. 167:55-63.
- Sperling, M. V. 2007. Wastewater characteristics, treatment and disposal. IWA Publishing. London.
- Steel, E. W., T. J. McGhee. 1979. Water treatment and sewage, fifth edition. McGraw Hill. New York.
- Thorn, K. A., M. A. Mikita. 2000. Nitrite Fixation by humic substances. *Soil Science Society of America*. 64:568-582.
- Tuong, T. P., B. A. M. Bouman. 2003. Rice productivity in water-scarce environments. *The Comprehensive Assessment of Water Management in Agriculture*. CABI Publishing. United Kingdom.
- USDA. 2014. Soil Electrical Conductivity: Guide for Educator. United States Department of Agriculture. USA.
- USDA. 2015. Conservation Practice Standard Irrigation System, Microirrigation. *National Handbook of Conservation Practices*. United States Department of Agriculture. USA.
- Walker, W.R. 2003. SIRMOD III, Surface Irrigation Simulation, Evaluation and Design. Guide and Technical Documentation. Utah State University.
- Watercare. 2015. Primary treatment, pre-treatment, screening, pre-aeration, primary sedimentation tanks. Watercare. New Zealand.
- WaterNSW. 2019. Subsurface Irrigation. <https://www.watarnsw.com.au/water-quality/catchment/living/wastewater/systems/subsurface-irrigation>. Diakses tanggal 5 Januari 2020.