

DAFTAR PUSTAKA

- Abbaspour, K. C., Yang, J., Maximov, I., Siber, R., Bogner, K., Mieleitner, J., Zobrist, J., & Srinivasan, R. (2007). Modelling Hydrology and Water Quality in The Pre-Alpine/Alpine Thur Watershed Using SWAT. *Journal of Hydrology*, 333(2–4), 413–430. <https://doi.org/10.1016/j.jhydrol.2006.09.014>
- Adnan, M., Kang, S., Zhang, G., Saifullah, M., Anjum, M. N., & Ali, A. F. (2019). Simulation and Analysis of The Water Balance of The Nam Co Lake Using SWAT Model. *Water (Switzerland)*, 11(7). <https://doi.org/10.3390/w11071383>
- Ahn, S. R., & Kim, S. J. (2018). Analysis of Water Balance by Surface–Groundwater Interaction Using The SWAT Model for The Han River Basin, South Korea. *Paddy and Water Environment*, 16(3), 543–560. <https://doi.org/10.1007/s10333-018-0647-x>
- Alfonso-Torreño, A., Schnabel, S., Gómez-Gutiérrez, Á., Crema, S., & Cavalli, M. (2022). Effects Of Gully Control Measures on Sediment Yield and Connectivity in Wooded Rangelands. *Catena*, 214. <https://doi.org/10.1016/j.catena.2022.106259>
- Arabi, M., Frankenberger, J. R., Engel, B. A., & Arnold, J. G. (2008). Representation of Agricultural Conservation Practices With SWAT. *Hydrological Processes*, 22(16), 3042–3055. <https://doi.org/10.1002/hyp.6890>
- Bemmelen R. W. Van. (1949). *The Geology of Indonesia* (Vol. 1A). Government Printing Office.
- Deng, C., Zhang, G., Liu, Y., Nie, X., Li, Z., Liu, J., & Zhu, D. (2021). Advantages and Disadvantage of Terracing: A Comperhensive Review. *International Soil and Water Conservation Research*, 9, 344–359.
- Dingman, S. L. . (2015). *Physical Hydrology*. Waveland Press, Inc.
- Djaeni, A. (1982). *Peta Hidrogeologi Indonesia Lembar Yogyakarta* (S. S, Ed.). Direktorat Geologi Tata Lingkungan.
- FAO. (1979). *Soil Map of The World: Southeast Asia* (Vol. 9). UNESCO.

- Gupta, H. V., Sorooshian, S., & Yapo, P. O. (1999). Status of Automatic Calibration for Hydrologic Models: Comparison with Multilevel Expert Calibration. *Journal of Hydrologic Engineering*, 4(2), 135–143. [https://doi.org/10.1061/\(asce\)1084-0699\(1999\)4:2\(135\)](https://doi.org/10.1061/(asce)1084-0699(1999)4:2(135))
- Jaiswal, R. K., Yadav, R. N., Lohani, A. K., Tiwari, H. L., & Yadav, S. (2020). Water Balance Modeling of Tandula (India) Reservoir Catchment Using SWAT. *Arabian Journal of Geosciences*, 13(4). <https://doi.org/10.1007/s12517-020-5092-7>
- Kresic, N. (2023). *Hydrogeology 101 Introduction to Groundwater Science and Engineering*.
- Laporan Akhir Studi Rehabilitasi Air Bawah Tanah DAS Waduk Kedungombo, Jawa Tengah (Tidak Dipublikasikan)*. (2022).
- Liu, Z., Rong, L., & Wei, W. (2023). Impacts of Land Use/Cover Change on Water Balance by Using The SWAT Model in A Typical Loess Hilly Watershed of China. *Geography and Sustainability*, 4(1), 19–28. <https://doi.org/10.1016/j.geosus.2022.11.006>
- Marhaento, H., Booij, M. J., Rientjes, T. H. M., & Hoekstra, A. Y. (2017). Attribution of Changes in The Water Balance of A Tropical Catchment to Land Use Change Using The SWAT Model. *Hydrological Processes*, 31(11), 2029–2040. <https://doi.org/10.1002/hyp.11167>
- Martosuwito, S., Samodra, H., & Sidarto. (2013). Hubungan Lembah Sadeng, Cekungan Baturetno dan Teras Bengawan Solo, Jawa Bagian Tengah. *Geo-Science*, 23(3), 155–165.
- Mohajerani, H., Zema, D. A., Lucas-Borja, M. E., & Casper, M. (2021). Understanding The Water Balance and Its Estimation Methods. Dalam *Precipitation: Earth Surface Responses and Processes* (hlm. 193–221). Elsevier. <https://doi.org/10.1016/B978-0-12-822699-5.00019-7>
- Moreira, L. L., Schwaback, D., & Rigo, D. (2018). Sensitivity Analysis of The Soil and Water Assessment Tools (SWAT) Model in Streamflow Modeling in A Rural River Basin. *Ambiente & Agua*, 13.
- Moriasi, D. N., Arnold, J. G., Liew, M. W. Van, Bingner, R. L., Harmel, R. D., & Veith, T. L. (1983). Model Evaluation Guidelines for Systematic

- Quantification of Accuracy in Watershed Simulations. *Transactions of the ASABE*, 50(3), 885–900.
- Neitsch, S. L., Arnold, J. G., Kiniry, J. R., & Williams, J. R. (2005a). *Soil and Water Assessment Tool Theoretical Documentation Version 2005*.
- Neitsch, S. L., Arnold, J. G., Kiniry, J. R., & Williams, J. R. (2005b). *SOIL AND WATER ASSESSMENT TOOL THEORETICAL DOCUMENTATION VERSION 2005*.
- Neitsch, S. L., Arnold, J. G., Kiniry, J. R., & Williams, J. R. (2011). *College of Agriculture and Life Sciences Soil and Water Assessment Tool Theoretical Documentation Version 2009*.
- NRCS. (1996). *National Soil Survey Handbook, Title 430-VI*. Government Printing Office.
- Nugraheni, C. T., Pawitan, H., Purwanto, Y. J., & Ridwansyah, I. (2019). Neraca Air Situ Cikaret dan Situ Kabantenan di Kabupaten Bogor Menggunakan Pemodelan Hidrologi SWAT. *Limnotek : perairan darat tropis di Indonesia*, 26(2). <https://doi.org/10.14203/limnotek.v26i2.251>
- Ojo, O. I. (2012). Groundwater: Characteristics, qualities, pollutions and treatments: An overview. *International Journal of Water Resources and Environmental Engineering*, 4(6). <https://doi.org/10.5897/ijwree12.038>
- Pamela, Yukni, A., Imam, S. A., & Kartiko, R. D. (2018). The Selective Causative Factors on Landslide Susceptibility Assessment: Case Study Takengon, Aceh, Indonesia. *AIP Conference Proceedings*, 1987. <https://doi.org/10.1063/1.5047374>
- Penman, H. L. (1965). Evaporation: An Introductory Survey. *Netherlands Journal of Agricultural Science*, 4, 7–29.
- Peraturan Menteri Energi dan Sumber Daya Mineral Republik Indonesia Nomor 31 Tahun 2018*.
- Peraturan Pemerintah Republik Indonesia Nomor 43 Tahun 2008*.
- Rejekiningrum, P. (2009). Peluang Pemanfaatan Air Tanah Untuk Keberlangsungan Sumber Daya Air. *Jurnal Sumberdaya Lahan*, 3(2). www.groundwater.com/groundwater_

- Samodra, H., Gafoer, S., & Tjokrosapoetro, S. (1992). *Peta Geologi Lembar Pacitan*.
- Sampurna, & Samodra, H. (1997). *Peta Geologi Lembar Ponorogo*.
- Sarjana, K., Hayati, L., & Wahidaturrahmi, W. (2020). Mathematical Modelling and Verbal Abilities: How They Determine Students' Ability To Solve Mathematical Word Problems? *Beta: Jurnal Tadris Matematika*, 13(2), 117–129. <https://doi.org/10.20414/betajtm.v13i2.390>
- Setiadi, I., & Sobari, I. (2005). Aplikasi Gaya Berat dan Geolistrik Mise-A-Lamasse untuk Pendugaan Struktur Geologi Bawah Permukaan dan Implikasinya Terhadap Mineralisasi di Daerah Wonogiri, Jawa Tengah. *Jurnal Sumber Daya Geologi*, 1, 26–37.
- SLoan, P. G., & Moore, I. D. (1984). Modeling Subsurface Stormflow on Steeply Sloping Forested Watersheds. Dalam *WATER RESOURCES RESEARCH* (Vol. 20, Nomor 12).
- Surono, Toha, B., & Sudarno, I. (1992). *Peta Geologi Lembar Surakarta dan Girintoro*.
- Terskii, P., Kuleshov, A., Chalov, S., Terskaia, A., Belyakova, P., Karthe, D., & Pluntke, T. (2019). Assessment of Water Balance for Russian Subcatchment of Western Dvina River Using SWAT Model. *Frontiers in Earth Science*, 7. <https://doi.org/10.3389/feart.2019.00241>
- Thornthwaite, C. W. (1948). AN APPROACH TOWARD A RATIONAL CLASSIFICATION OF CLIMATE. *Geographical Review*, 38, 55–94.
- Venetis, C. (1969). A Study on The Recession of Unconfined Acquifers. *Int. Assoc. Sci. Hydrol. Bull.*, 14(4), 119–125.
- Vicente, M. L., Kramer, H., & Keesstra, S. (2021). Effectiveness of Soil Erosion Barriers to Reduce Sediment Connectivity at Small Basin Scale in Fire-Affected Forest. *Journal of Environmental Management*.
- Wang, L., Tang, L., Wang, X., & Chen, F. (2010). Effects of Alley Crop Planting on Soil and Nutrient Losses in the Citrus Orchards of the Three Gorges Region. *Soil and Tillage Research*, 243–250.
- Yeh, H. F., Cheng, Y. S., Lin, H. I., & Lee, C. H. (2016). Mapping Groundwater Recharge Potential Zone Using A GIS Approach in Hualian River, Taiwan.

Sustainable Environment Research, 26(1), 33–43.
<https://doi.org/10.1016/j.serj.2015.09.005>

LAMPIRAN

Lampiran 1 : Komponen Neraca Air Hasil SWAT

Bulan	Presipitasi	ET	SW Initial	SW End	Water Yield	DA Recharge	Kondisi Neraca Air
Jan-16	288,79	105,58	133,00	149,62	71,89	1,60	93,10
Feb-16	375,85	86,47	151,15	153,87	140,29	2,53	143,83
Mar-16	265,81	109,19	144,02	149,88	107,42	3,10	40,23
Apr-16	196,07	100,98	146,84	136,50	110,44	3,10	-8,12
May-16	132,08	94,35	124,84	138,87	58,13	2,76	-37,17
Jun-16	147,37	75,69	131,15	131,04	55,75	2,41	13,63
Jul-16	84,05	72,27	122,66	116,89	36,77	2,36	-21,58
Aug-16	101,18	75,91	118,38	115,09	36,14	2,06	-9,63
Sep-16	233,50	81,42	116,21	138,44	76,46	1,80	51,59
Oct-16	299,21	90,06	145,80	149,80	122,65	2,44	80,05
Nov-16	351,15	84,55	153,03	162,06	135,72	2,73	119,11
Dec-16	249,91	85,21	157,63	156,55	142,66	3,59	19,52
Jan-17	316,38	87,89	157,51	166,00	132,75	3,50	83,75
Feb-17	419,01	83,19	161,83	163,22	213,00	3,95	117,48
Mar-17	223,23	105,19	150,81	156,30	132,95	4,50	-24,90
Apr-17	202,55	98,04	143,18	147,10	101,03	4,11	-4,54
May-17	50,47	88,92	117,14	99,13	58,16	3,73	-82,33
Jun-17	31,27	65,32	72,30	64,29	38,35	2,96	-67,35
Jul-17	12,19	37,68	47,54	40,64	28,93	2,49	-50,02
Aug-17	4,94	26,02	29,44	22,51	16,94	2,03	-33,12
Sep-17	77,90	24,07	20,88	69,12	12,85	1,60	-8,86
Oct-17	71,83	72,73	65,48	62,71	13,85	1,36	-13,33
Nov-17	469,74	64,08	101,80	164,52	177,89	1,35	163,70
Dec-17	226,62	92,87	150,71	155,45	98,78	2,11	28,12
Jan-18	506,68	85,79	161,69	168,56	233,30	2,94	177,78
Feb-18	264,55	83,70	161,73	148,10	156,76	3,47	34,25
Mar-18	254,48	109,82	144,99	142,89	127,85	3,82	15,10
Apr-18	142,52	106,66	134,79	118,91	73,41	3,36	-25,03
May-18	9,78	80,88	78,07	49,69	36,21	2,96	-81,88
Jun-18	3,05	33,77	28,38	21,46	24,90	2,34	-51,05
Jul-18	0,00	10,68	14,96	13,96	16,83	1,97	-28,49
Aug-18	0,00	8,41	9,01	8,98	9,12	1,60	-19,10
Sep-18	16,33	14,81	7,91	12,34	5,22	1,27	-9,41
Oct-18	0,70	11,56	5,65	5,27	2,64	1,07	-14,18
Nov-18	195,20	62,53	55,55	108,26	18,22	0,86	60,87
Dec-18	207,94	90,48	120,97	137,67	39,39	0,99	60,37
Jan-19	370,49	96,24	143,74	158,39	137,74	1,45	120,41