

DAFTAR PUSTAKA

- Asdak, C. (2023). Hidrologi dan pengelolaan daerah aliran sungai. Gadjah Mada University Press.
- Auliyani, D., & Wahyuningrum, N. (2019). Sebaran potensi kekeringan meteorologis di Daerah Aliran Sungai Bengawan Solo bagian hulu dan upaya penanggulangannya. *Majalah Geografi Indonesia*, 33(2), 58–63. <https://doi.org/10.22146/mgi.45534>
- Badan Nasional Penanggulangan Bencana. (2020). Data Bencana Indonesia. <https://dibi.bnpb.go.id>
- Bahtiar, R., Wijayanto, Y., Budiman, S. A., & Saputra, T. W. (2022). Perbedaan karakteristik sebaran spasial hujan di Kabupaten Jember menggunakan metode Inverse Distance Weighted (IDW) dan Poligon Thiessen. *Berkala Ilmiah Pertanian*, 5(1), 1–5. <https://www.researchgate.net/publication/365193175>
- Balai Besar Wilayah Sungai Bengawan Solo. (2022). Rencana strategis pengelolaan sumber daya air. Kementerian Pekerjaan Umum dan Perumahan Rakyat.
- Bruijnzeel, L. A. (2004). Hydrological functions of tropical forests: Not seeing the soil for the trees? *Agriculture, Ecosystems & Environment*, 104(1), 185–228. <https://doi.org/10.1016/j.agee.2004.01.015>
- Buishand, T. A. (1982). Some methods for testing the homogeneity of rainfall records. *Journal of Hydrology*, 58(1–2), 11–27. [https://doi.org/10.1016/0022-1694\(82\)90066-X](https://doi.org/10.1016/0022-1694(82)90066-X)
- Chow, V. T., Maidment, D. R., & Mays, L. W. (1988). *Applied hydrology*. New York: McGraw-Hill.
- Đurin, B., Kranjčić, N., Kanga, S., Singh, S. K., Sakač, N., Pham, Q. B., & Di Nunno, F. (2022). Application of rescaled adjusted partial sums (RAPS) method in hydrology: An overview. *Advances in Civil and Architectural Engineering*, 13(25), 58–72. <https://doi.org/10.13167/2022.25.6>
- Dewita, Y., Harto, A.B., & Wahyudi, A.I. (2022). Analisis kekeringan meteorologis menggunakan Standardized Precipitation Index (SPI) di Sub-DAS Kadalpang, Jawa Timur. *Jurnal Teknik Sipil dan Lingkungan*, 7(2), 89–102.
- Fagus, A. N., Harisuseno, D., & Fidari, J. S. (2026). Implementasi metode Standardized Precipitation Index (SPI) untuk analisis kekeringan meteorologi pada Sub DAS Abab. *Jurnal Teknologi dan Rekayasa Sumber Daya Air*, 6(1), 314–322. <https://jtresda.ub.ac.id/index.php/jtresda/article/view/1231>
- Gąsiorek, E., Musiał, E., & Rojek, K. (2015). Evaluation of the precision of Standardized Precipitation Index (SPI). *Journal of Ecological Engineering*, 16(4), 49–53. <https://doi.org/10.12911/22998993/59347>
- Guttman, N. B. (1999). Accepting the standardized precipitation index: A calculation

- algorithm. *Journal of the American Water Resources Association*, 35(2), 311–322. <https://doi.org/10.1111/j.1752-1688.1999.tb03592.x>
- Haan, C. T. (2002). *Statistical methods in hydrology* (2nd ed.). Iowa State Press.
- Hayes, M. J., Svoboda, M. D., Wall, N., & Widhalm, M. (2011). The Lincoln declaration on drought indices: Universal meteorological drought index recommended. *Bulletin of the American Meteorological Society*, 92(4), 485–488. <https://doi.org/10.1175/2010BAMS3103.1>
- Helsel, D. R., & Hirsch, R. M. (2002). *Statistical methods in water resources*. U.S. Geological Survey.
- Intergovernmental Panel on Climate Change. (2023). Climate change 2023: Synthesis report. IPCC. <https://www.ipcc.ch/report/ar6/syr/>
- Lubis, L. H., Anggraini, A., & Sirait, R. (2022). Validation of rain thickness model based on GPM satellite and surface measurements. *Tunas Geografi*, 11(2), 1–12. <https://doi.org/10.24114/tgeo.v11i2.40594>
- Longley, P. A., Goodchild, M. F., Maguire, D. J., & Rhind, D. W. (2015). *Geographic information science and systems* (4th ed.). Wiley.
- Maguire, D. J., Batty, M., & Goodchild, M. F. (2005). *GIS, spatial analysis, and modeling*. ESRI Press.
- McKee, T. B., Doesken, N. J., & Kleist, J. (1993). The relationship of drought frequency and duration to time scales. In *Proceedings of the 8th Conference on Applied Climatology* (pp. 179–184). American Meteorological Society.
- Mishra, A. K., & Singh, V. P. (2010). A review of drought concepts. *Journal of Hydrology*, 391(1–2), 202–216.
- Ng, C., Lin, R., Xu, J., & Shi, H. (2022). An alternative approach to constructing sewershed models using Thiessen polygons. *Environmental Science and Pollution Research*, 29, 1–14. <https://doi.org/10.1007/s11356-022-24162-7>
- Nikmah, N. W., Yakan, A. F., & Rahima, A. (2024). The impact of the Southern Oscillation Index (SOI) on meteorological droughts in the Bengawan Solo River Basin. *DTS*. <https://journals2.ums.ac.id/index.php/dts/article/view/6822>
- Ojha, S. S., Singh, V., & Roshni, T. (2021). Comparison of meteorological drought using SPI and SPEI. *Civil Engineering Journal*, 7(12), 2130–2149. <https://doi.org/10.28991/cej-2021-03091783>
- Peterson, T. C., Easterling, D. R., Karl, T. R., Groisman, P., Nicholls, N., Plummer, N., ... Parker, D. (1998). Homogeneity adjustments of in situ atmospheric climate data: A review. *International Journal of Climatology*, 18(13), 1493–1517.

- Pratama, J. P., & Darmawan, Y. (2025). Analisis pola sebaran spasial curah hujan di Provinsi Jawa Tengah menggunakan metode Poligon Thiessen untuk mitigasi bencana banjir. *Sainteks*, 22(1), 23–28. <https://doi.org/10.30595/sainteks.v22i1.25602>
- Stagge, J. H., Tallaksen, L. M., Gudmundsson, L., Van Loon, A. F., & Stahl, K. (2015). Candidate distributions for climatological drought indices (SPI and SPEI). *International Journal of Climatology*, 35(13), 4027–4040. <https://doi.org/10.1002/joc.4267>
- Subramanya, K. (2017). *Engineering hydrology* (5th ed.). McGraw Hill Education.
- Thiessen, A. H. (1911). Precipitation averages for large areas. *Monthly Weather Review*, 39(7), 1082–1089. [https://doi.org/10.1175/1520-0493\(1911\)39<1082:PAFLA>2.0.CO;2](https://doi.org/10.1175/1520-0493(1911)39<1082:PAFLA>2.0.CO;2)
- Thom, H. C. S. (1958). A note on the gamma distribution. *Monthly Weather Review*, 86(4), 117–122.
- Triatmodjo, B. (2008). *Hidrologi terapan*. Beta Offset.
- Vicente-Serrano, S.M., Beguía, S., & López-Moreno, J.I. (2010). A multiscale drought index sensitive to global warming: the Standardized Precipitation Evapotranspiration Index. *Journal of Climate*, 23(7), 1696–1718. <https://doi.org/10.1175/2009JCLI2909.1>
- Wijngaard, J. B., Klein Tank, A. M. G., & Können, G. P. (2003). Homogeneity of 20th century European daily temperature and precipitation series. *International Journal of Climatology*, 23, 679–692.
- Wilhite, D. A., & Glantz, M. H. (1985). Understanding the drought phenomenon: The role of definitions. *Water International*, 10(3), 111–120.
- World Meteorological Organization. (2012). Standardized Precipitation Index user guide (WMO-No. 1090). <https://library.wmo.int>
- World Meteorological Organization. (2008). *Guide to hydrological practices* (WMO-No. 168). WMO.