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London, 1969, p. 588.



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ABSTRACT The paper discusses assessment of various chemical constituents present in groundwater besides morphology, and land form characteristics of twin micro-watersheds (viz., Melekote and Rajaghatta) Dodballapur Taluk, (Karnataka) coming under semi-arid climatic zone. Farmers who are mainly depending on agricultural yields for their living are disappointed due to vagaries of monsoons and undependable rainfall. This is particularly so in arid and semi-arid regions. These regions suffer from water scarcity, soil					Recommend to Peers		
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degradation, low c culminate in planni	gradation, low crop yield, high soil erosion and gradual depletion of soil fertility. All these factors minate in planning for conservation and storage of water in small watersheds for future needs, i.e., ring drought conditions. In many areas, it is observed that the water table levels are declining resulting				Downloads:	401,150	
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hydrological studies are covered in relation to watershed management in order to formulate strategies for sustainable agricultural development. Morphometry, landform and topography play an important role in understanding the hydrological response of any watershed. Quantitative morphometric analysis has been carried out on the watershed along with landform and topographical study.					Sponsors, Associates, a Links >>		
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References [1] I. Zavoinu, "	Morphometry of Drainag	e Basins," Elsevier,	, Amstedam, 1985, p. 238				
	, " The Drainage Basin a		Geomorphic Units," Wat				

- [3] M. Evenari, " The Nagev: The Challenge of a Desert," Oxford University Press, Oxford, 1971.
- [4] A. Agarwal and S. Narain, " Rise and fall Water Harvesting," Dying Wisdom, 4th Report, Centre for Science and Environment, New Delhi, 1997, pp. 269-312.

A Synthesis of Hydrology, Geomorphology and Socio-Economic Geography, Methuen and Co Ltd.,

- J. Krishnamurthy, G. Srinivas, V. Jayaraman and M. G. Chandrashekar, "Influence of Rock Types and Structures in the Development of a Drainage Networks in Typical Hardrock Terrain," ITC Journal, Vol. 3, No. 4, 1996, pp. 252-259.
- [6] A. N. Strahler, " Quantitive Analysis of Watershed Geomorphology," Transaction of the American Geophysical Union, Vol. 38, No. 6, 1957, pp. 913-920. doi:10.1029/TR038i006p00913
- [7] C. R. Horton, " Erosional Development of Streams and Their Drainage Basins: Hydrophysical

- Approach to Quantitative Morphology," Geological Society of America Bulletin, Vol. 56, No. 3, 1945, pp. 275-370. doi:10.1130/0016-7606(1945)56[275:EDOSAT]2.0.CO;2
- [8] A. N. Strahler, " Quantitive Geomorphology of Drainage Basin and Channel Networks," In: V. T. Chow, Ed., Hand Book of Applied Hydrology, McGraw Hill Book Co., New York, 1964, pp. 439-476.
- [9] B. B. S. and R. P. Gupta, " Applied Hydrogeology of Fractured Rocks," Kluwer Academic Publishers, New York, 1999.
- [10] R. K. Jaiswal, J. Krishnamurthy, S. Mukherjee and M. Sameena, " Role of Landform and Topographyin the Development of Drainage Networks," Hydrology Journal, Vol. 30, No. 1-2, 2007, pp. 1-13.
- [11] J. D. Hem, " Study and Interpretation of the Chemical Characteristics of Natural Water," U S Geol. Water Supply Paper 2254, Scientific Publishers, Jodhpur, 1991.
- [12] A. M. Piper, " A Graphic Procedure in the Geochemical Interpretation of Water Analysis," Groundwater Note No. 12, US Geological Survey, 1953.
- [13] A. V. Shivapur, M. Ish, B. K. Purandara and I. T. Shirkol, "Comparative Study on Bennihalla and Bedthi Catchment through the Analysis of Their Morphology, Land Form and Topographic Characterstics," Society for Hydraulics Journal of Hydraulic Engineering Vol. 16, No. 1, 2010, pp. 69-78.
- [14] C. Sadashivaiah, E. R. Ramakrishnaiah and G. Ranganna, "Hydrochemical Analysis and Evaluation of Groundwater Quality in Tumkur Taluk," International Journal of Environmental Research and Public