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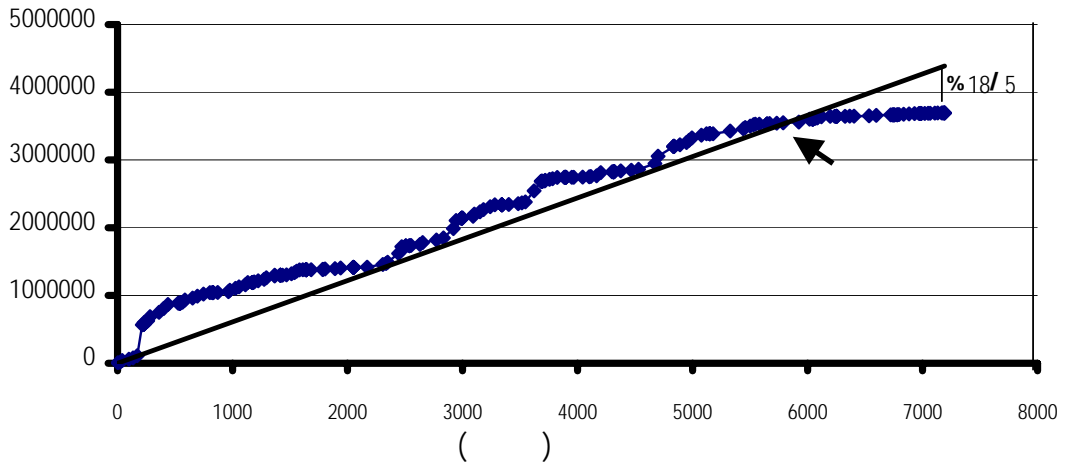
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- 9-Brooks, H.M, 1992. Economic Appraisal of Watershed Management Projects.F.A.O.
- 10-Hudson, N., 1992. A Study of Reasons for Success or failure of Soil Conservation Projects, F.A.O.
- 11-Lioyld, A. Reed, 1978, Effectiveness of Sediment-Control Techniques used During Highway Construction in Central Pennsylvania, U.S.D, of Interior, Pennsylvania.
- 12-Sheng, Ted.C. 1990, Challenges and Strategies of Integrated Watershed Management in Developing Countries. 8Th the I.C.S.E., India.
- 13-Vallentine, J.F. 1989, Range Development and Improvement. Third edition, San Diego, California, U.S.A.
- 14-Walling, D. E. 1999, Linking Landuse, Erosion and Sediment Yields in River Basins. J hydrobiologia, 410, 223-240, U.K.

A Model for Evaluation of Watershed Management Projects

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Abstract

The current critical situation of natural resources in Iran resulted from overuse of these resources. In spite of performing watershed management projects during past forty years, natural resources have been degraded. In addition, enough appropriate researches have not been conducted to evaluate the effectiveness and the reasons for failure of these projects. In this research, the watershed management project in Menderjan sub-catchment of Zayandehrood basin was evaluated, from preparing and proposing to operational stages by quantitative and qualitative methods.

Basic data were collected by investigating the projects documents, direct visiting, filling out questioner, and interviewing settlers of the watershed. Finally, effective factors in operation of project were categorized in seven groups. Each of these groups was divided into subgroup factors, which were scored by weight according to some parameters. The results showed that the situation of proposed plan and lacks of economic assessment were the most important influencing factors in operation of project. According to the invented model, the final score calculated by the method mentioned was 29 (out of 110), which indicates weak operation for this project.

Keywords: Assessment, Watershed management project, Expert Model, Sediment yield, Qualitative Research.

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