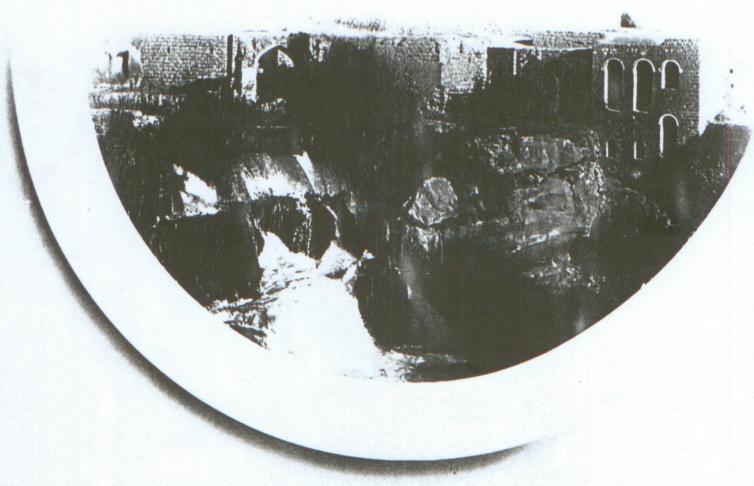
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ESTIMATION OF THE REASONS OF QANAT DEGREDATION AND ITS EFFECT ON VILLAGERS' PARTICIPATION (CASE STUDY OF SIX REGIONS IN THE KHORASSAN PROVINCE)

Mahyar Naseri Moghaddam¹, Ebrahim Mirzaee², Seyed Majid Hasheminia³, Kamran Davari³

Abstract

Undoubtedly quant could be one of the Iranian's most creative designs for sustainable use of underground water resources. Controllable application of water by quant systems guaranteed cultivation of crops in arid and semiarid regions of Iran for more than 2500 years.

Based on the important role of quants in the ancient lives, establishment, utilization, maintenance and management of quants were done by all villagers and water consumers.

In recent years development of wells, and oversupply usage of water and the lack of control and supervision by the governmental authorities caused destruction, drying of many quants and great reduction in their discharge.

¹⁻ Undergraduate student, Water Engineering Dept., Ferdowsi University of

Mashhad, Iran. E-mail address: mahyar1984nm@yahoo.com

²⁻ Graduate student, Water Engineering Dept., Ferdowsi University of Mashhad, Iran.

E-mail address: eb_mirzaee@yahoo.com

³⁻ Faculty, Water Engineering Dept., Ferdowsi University of Mashhad, Iran.

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Unfortunately, omission and neglecting the role of quant in the villagers' lives also affected their social aspects and communication relationships.

In *Khorassan* province, one of the origins of qanats in Iran, six qanats are under case study. Survey on the subject was done through inquiry forms of specialist of water and soil research center of the area and the rapid rural appraisal (RRA) technique for local inhabitants.

In this study, common problems relevant to destruction of quants and degradation factors are discussed and applicable solutions for rehabilitation of quants and participation of locals due to improved management are addressed.

Key words: Qanat, degradation, participatory management.