1. Record Nr. UNINA9910502649603321 Autore Zhu Tongxin Titolo Watershed erosion processes / / Tongxin Zhu and Xiangzhou Xu Pubbl/distr/stampa Cham, Switzerland:,: Springer,, [2021] ©2021 **ISBN** 3-030-81151-4 Descrizione fisica 1 online resource (175 pages) Collana Geography of the Physical Environment Disciplina 631.45 Soggetti Soil erosion Watershed management Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes index. Note generali Nota di contenuto Intro -- Preface -- Contents -- 1: Introduction -- 1.1 Soil Erosion and Its Impact -- 1.2 Watershed Erosion Processes -- 1.3 Research Itinerary -- References -- 2: Watershed Characteristics -- 2.1 The Loess Plateau -- 2.2 The Study Watershed -- 2.2.1 Climate -- 2.2.2 Lithological, Soil, and Hydrological Setting -- 2.2.3 Topographic and Land-Use Conditions -- References -- 3: Sheet and Rill Erosion --3.1 Introduction -- 3.2 Field Experimental Setting and Methods -- 3.3 Results and Discussion -- 3.3.1 Slope Gradient -- 3.3.2 Soil and Water Loss on Different Land Use Conditions -- 3.3.3 Effects of Crusting on Soil Moisture, Runoff and Soil Loss -- Soil Moisture --Runoff and Sediments -- Hillslopes -- 3.3.4 Soil Shear Strength -- 3.4 Synthesis, Discussion and Conclusion -- References -- 4: Gully Erosion -- 4.1 Introduction -- 4.2 Methods and Study Objectives -- 4.3 Distribution and Classification of the Gullies/Channels -- 4.4 Morphological Characteristics of Gullies/Ephemeral Streams -- 4.5

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