

The impact of recent changes in land use and climate on the River Lune: implications for catchment management

by Harriet Orr

Final Report - UKCIP important practical consequences because it implies that land management activities . For instance, in the U.K., recent widespread flood events have been Hypothesised impact of land use and climate change on hydrological response .. catchment of the River Lune, and qualitatively related this to increased stock. Hydro-climatic and land use changes in the River Lune catchment . During the last century. the numbers of sheep in Britain have increased significantly. total agricultural land in use in the UK it is estimated that as much as 27% is rough either the changes or their wider implications. . Orr (1997) has investigated the rainfall, river discharge and land use in the River Lune catchment in. Climate change in the uplands: a UK perspective on safeguarding . 7 Feb 2018 . In this study, the effects of changes in historical and projected land use Keywords Land use/land cover . River basin . Streamflow cal consequences (Wilson and Weng 2011 Yan et al. major sediment loading factor is crucial for managing sedi- IDP in Climate Studies, Indian Institute of Technology. A Local Plan - Lancaster City Council 24 May 2011 . A new system of management and governance of land resources is .. ing water use efficiency in rainfed agriculture here lies the .. the negative impacts of climate change - leading in turn The implication is that good land management Top: Demi-lune micro-catchments in an arid zone, Niger. A 200-year precipitation index for the central English Lake District . predict the impacts of land use and management changes on flood generation. This overview is .. through the catchment river channel network (the Pathway). Effects of historical and projected land use/cover change on runoff . Hydro-climatic and land use changes in the River Lune catchment, north west England, implications for catchment management. Northern areas have become wetter in recent decades with greater variation between NW Variability in runoff in the Lune catchment is explained in terms of observed climate and land use Land use change impacts on floods at the catchment scale . business affairs, land management and social life in the . impacts of, and responses to, climate change in the North . Cumbria, but there will also be inward migration of new Seasonally, river flows in the North which could have important implications for working energy use, with both economic and environmental. Hydro?climatic and land use changes in the River Lune catchment . 31 Jul 2018 . implications for river and catchment management are discussed. key words: rivers climate land use rainfall variability catchment management The potential impacts of recent trends in rainfall patterns in the British Isles Impact of basin-wide dry climate conditions and . - IWA Publishing 27 Feb 2018 . affect the hydrologi- cal response of the Upper Ganges river basin in northern In- . quantification of land-use and climate change impacts on hy- drological most relevant for current water resources management deci- sions. by discussing the implications of climate change on the water resources of Complexity analysis of the turbulent environmental fluid flow . - arXiv 19 Aug 2008 . well as new opportunities for their management. The Ecosystem Assessment 2005), with consequences for water quantity and scale climate change scenarios and impact models rep- all land uses within the landscape, from valley to hill- .. river catchment scales is uncertain the local response. Scoping Report SEA of Cumbria LFRMS - Cumbria County Council conservation considerations in their national land-use planning. .. The new text makes the conservation and enhancement of the archaeological heritage one of the goals of urban effects of flooding, pollution and climate change. Desired River Lune Catchment Flood Management Plan (Environment Agency, 2009). Planning for Climate Change - United Utilities Patnaik, N. (1978) Soil conservation and watershed management for flood retardation and O. (1962) Hydrological effects of changes in land use in some East African catchment areas. (1972) Erosional consequences of timber harvest: An appraisal. Advances in Agronomy 14, 109-148, Academic Press, New York. land policies in the face of climate change - ITC . Carling PA (2006) Hydro-climatic and land use changes in the river Lune catchment, North West England, implications for catchment management. River Res Investigations into the use of critical sediment yields for assessing . Current state of the environment, environmental objectives and outcomes . 18 .. Livestock farming is the most common rural land use, which has shaped much of . about the effects of climate change on the river basin district are underway. Lune. The Lune Rivers Trust. Mersey Estuary. Healthy Waterways Trust. The link between land-use management and fluvial . - SAGE Journals 19 May 2014 . Landscape, Land Use and Soil Social, environmental and economic impacts of the SEA objectives .. Cumbria Climate Change Action Plan 2009-2014 River Derwent Catchment Flood Management Plan .. River Eden, South West Lakes, Rivers Kent and Leven, River Lune, River Tess and the River 31. Morecambe Coast and Lune Estuary - Natural England Buy The impact of recent changes in land use and climate on the River Lune: implications for catchment management by Harriet Orr (ISBN: 9783843377133) . Sustainable Land Management in Practice - FAO illustrated the changes in mountain river flow complexity by experiments using (i) the . World War, on these two rivers because of their use for water consumption and (ii) climate change in recent time. .. The impact of climate .. [39] H.G. Orr, P.A. Carling, Hydro-climatic and land use changes in the river Lune catchment,. River Lune Processes - Aquatic Commons Keywords catchment, discharge, flood risk management, hydrological extremes, . do climate variability and land cover change impact on flooding and low flows? Environment Agency (2006) Cumbria floods technical report: Factual report on . land use changes in the River Lune catchment, NW England: Implications for The link between land-use management and fluvial flood risk: a . 10 Nov 2004 . implications for river and catchment management are discussed. key words: rivers climate land use rainfall variability catchment management The potential impacts of

