

# Water Resource Associates

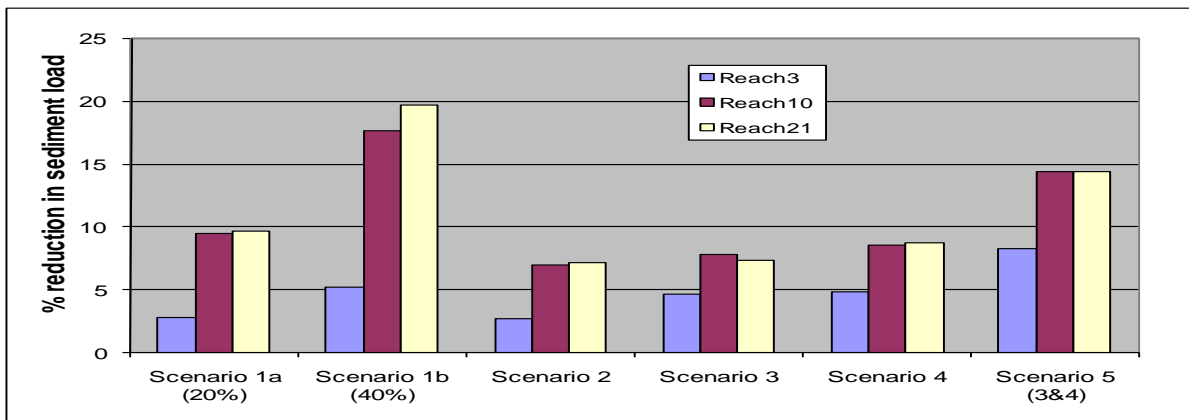
*A network of consultants in hydraulics, hydrology, groundwater & environmental issues*

**Project title:** Catchment Sensitive Farming Measures to reduce Sediments in the River Lugg - an INCA Sed modelling Study.

**Summary:** The impacts of new catchment sensitive farming techniques have been investigated using the INCA Sed model for Sediments and Hydrology and applied to the River Lugg Catchment

<b>Client:</b> Environment Agency	<b>Financed by:</b> Environment Agency
<b>Period of assignment:</b> 2009-10	<b>Location:</b> UK
<b>Project Value:</b> £25k	<b>WRA services:</b> £25k
<b>In co-operation with:</b>	

**Background:** - The UK government via DEFRA and the EA is currently reviewing agricultural diffuse pollution and aims to introduce catchment sensitive farming as part of the Water Framework Programme. WRA has undertaken a new modelling study of the River Lugg to assess the potential for reducing sediments in the river system. The Lugg river catchment has been modeled and five control scenarios investigated, for land use change, contour tillage, grass hedging, and riparian buffer strips, as illustrated in the figure



## Scope of work by Water Resource Associates Ltd

Applications of the INCA Sediments Model to assess Catchment Sensitive Farming strategies in the River Lugg. Contact Paul Whitehead for further information

## Results

**Report to EA :-** Catchment Sensitive Farming: Impacts on the River Lugg. **Paper Published** ----P. Whitehead, A. Lazar, M. Futter, L Pope, A Wade, R Willows and C Burgess (2010) Modelling Sediment Supply and Transport in the River Lugg: Strategies for Controlling Sediment Loads, BHS International Symposium, BHS Web site

Project Number 314

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