

integration, and now they should be seen as integrating air pollution (the term 'air-shed' has started to be used). They are also ideal management units to integrate land-use policy, conservation practices, water-quality control, and environmental research and education. Best management practices within local watersheds can benefit local communities and local environmental conservation, and at the same time protect ecosystems hundreds of kilometres away.

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### Catchment management

- **The challenges of integrated river basin management in India**  
This questions the idea of transferring 'ready-made' integrated river basin management solutions from Australia, North America and Europe to India, arguing that effective solutions need to be tailored to fit local realities and community-based approaches.  
<http://www.iwmi.cgiar.org/waterpolicybriefing/files/wp03.pdf>
  - **Integrated Water Resource Management in Water and Sanitation Projects – Lessons from 11 Projects in Africa, Asia and South America**  
Vissher, Jan Teun, Peter Bury, Toby Gould and Patrick Moriarty (1999), Occasional paper No. 31-E. IRC.  
This report of a participatory review examines successes and failures and lessons for the implementation of IWRM strategies. It highlights the role of local communities in monitoring and regulation and the importance of traditional beliefs and customs in catchment protection.  
<http://www.irc.nl/content/view/full/1861>
  - **Protecting groundwater for health: managing the quality of drinking water sources**  
This is a draft for the ongoing revision of the WHO guidelines. It describes a tool for intersectoral development of strategies to protect groundwater for health by managing the quality of drinking water sources. Conceptual guidance is given on prioritizing both hazards and management responses. It is important to consider the socio-economic context in choosing feasible options for protection, control and remediation.  
[http://www.who.int/water\\_sanitation\\_health/resourcesquality/groundwater2004/en](http://www.who.int/water_sanitation_health/resourcesquality/groundwater2004/en)
  - **GWP Toolbox for Integrated Water Resource Management**  
The ToolBox is a comprehensive source of knowledge, experience and guidance for sustainable water resources development and management including service provision. Instruments of social change are presented as ways of encouraging a water-oriented society, with tools focusing on the role of education curricula in building water knowledge for social change and techniques for better communication with stakeholders.  
<http://gwpforum.netmasters05.netmasters.nl/en/index.html>
  - **Institute of Water and Environment, Cranfield University**  
The Institute of Water and Environment, in association with other schools in Cranfield University (National Soil Resources Institute NSRI and School of Water Sciences SWS) focuses on the key subjects in Catchment Management, including social perceptions and public participation.  
<http://www.silsoe.cranfield.ac.uk/iwe/expertise/catman.htm>
  - **WHiRL Water Households and Rural Livelihoods**  
Water, Households and Rural Livelihoods (WHiRL) Project: Promoting access of the poor to sustainable water supplies for domestic and productive uses in areas of water scarcity. This aims to identify, assess and promote innovative institutional and operational strategies to increase WSS involvement in IWRM and participatory watershed development.  
[http://www.nri.org/WSS-IWRM/proj\\_outline.htm](http://www.nri.org/WSS-IWRM/proj_outline.htm)
  - **APRLP water audit**  
This report from the Andhra Pradesh Rural Livelihoods Programme includes the results of a detailed analysis of water resources in two study areas of Andhra Pradesh, making a series of recommendations for improved water management ranging from local to policy-level actions.  
[http://www.nri.org/WSS-IWRM/reports\\_aprlpwra.htm](http://www.nri.org/WSS-IWRM/reports_aprlpwra.htm)
  - **Issues of Access: Water in the Sand River Catchment – legislation, rights, governance and infrastructure**  
Developed as part of the Save the Sand Series, this looks at new ways of working with water in South Africa, examining the rights and responsibilities over access to water and the roles of catchment management agencies, fora and committees.  
<http://www.nri.org/WSS-IWRM/Reports/SavetheSandUnit8.pdf>  
[http://www.sphereproject.org/handbook/html/4\\_ch2.htm](http://www.sphereproject.org/handbook/html/4_ch2.htm)
- Compiled by Julie Fisher, Water, Engineering and Development Centre, UK for WELL. WELL is a resource centre and network providing access to information and support in water, sanitation and environmental health for the Department for International Development (DFID) of the British Government*