



Watershed Management: Lessons from Experience and Innovations in Design and Practice

Learning Module and Workshop

February 24-25, 2005

Topic and Objectives

A growing list of projects and policies seeks to manage watersheds for reduced flooding, reduced sedimentation, improved dry season flows, and other hydrological objectives. This workshop will:

- take a retrospective look at Bank experience with watershed management: what kinds of projects and policies have been implemented? With what success and lessons?
- present state-of -the-art thinking on how watersheds actually function, and the implications for project design -- do project premises reflect hydrological science, or hydrological myths?
- report on global experience with innovative institutions for watershed governance and management, including environmental services payments systems -- how can upstream and downstream populations reach an accommodation with one another?
- draw lessons for future directions in watershed project and policy design

Audience

The primary audience consists of Bank staff and partners concerned with natural resource management, from both a project and policy perspective. In addition, the workshop will provide an opportunity for watershed management practitioners and experts to share their experiences with one another, fostering learning across geographic and disciplinary boundaries.

Structure

Sessions will feature short, stimulating presentations by experts in practice and theory of watershed management with ample opportunity for questions, debate, and discussion.

DAY ONE February 24, 2005	
8:30 – 9:00 am	Registration & Breakfast
<i>Session I - Introduction & Retrospective: The Bank's Experience with Watershed Management</i>	
9:00 – 9:15 am	Welcome Remarks Sushma Ganguly , Sector Manager, Agriculture & Rural Development Department, World Bank
9:15 - 9:30 am	Introduction to the Workshop (Salah Darghouth)
9:30 – 10:00 am	<i>Watershed Management in World Bank Operations: 15 Year Retrospective Review</i> Presenter <ul style="list-style-type: none"> • Erika Styger, Consultant, Agriculture & Rural Development Department, World Bank
10:00 – 10:30	Plenary Discussion
10:30 – 10:45 am	Coffee Break
<i>Session II - Experience with Watershed Management Projects in India and Latin America</i> Reports on recent or current Bank projects in regions with contrasting socioeconomic and biophysical characteristics – India, and Latin America. Within each region, examples of the distinctive challenges of projects operating at different scales, from the level of the community to that of the large river basins.	
10:45 am – 11:30 am	Chair: Salah Darghouth , Adviser, Agriculture & Rural Development Department, World Bank Presenters: <ul style="list-style-type: none"> • Talib Esmail, Sr. Rural Development Specialist, S. Asia & & Grant Milne, Sr. Natural Resource Management Specialist, South Asia Region (India Case) • James Smyle, Sr. Natural Resource Management Specialist, Latin America & Caribbean Region
11 :30 – 12 :30 pm	Small Group Discussions
12 :30 – 2 :00 pm	Lunch Break (lunch boxes provided)
<i>Session III - Watershed Management: Myths vs. Science</i> Hydrological half-truths and myths continue to guide the design of watershed projects and policies – sometimes with perverse results. A discussion of the state of hydrological knowledge and the implications for project design	
2:00 – 2:45 pm	Chair: Kenneth Chomitz , Lead Economist, Development Research Group, World Bank Presenters <ul style="list-style-type: none"> • Professor Ian Calder, Director, Centre for Land Use and Water Resources Research, University of Newcastle • Meine van-Noordwijk, Southeast Asia Regional Coordinator, World Agroforestry Centre
2:45 – 3:00 pm	Questions and Answers
3:00 – 3:45 pm	Small Group Discussions
3:45 – 4:00	Coffee Break
4:00 – 5:00 pm	Report Outs from Groups & Open Discussion
5:00 – 6:00 pm	Happy Hour

DAY TWO February 25, 2005	
8:30 – 9:00 am	Breakfast
<i>Session IV – Can Watershed Models Inform Policy and Project Design?</i>	
Bank projects can spend tens of millions of dollars based on assumptions about how land use regulates water flows. Policy decisions based on these assumptions can have economic impacts in the billions of dollars. Is it possible to cost-effectively improve project and policy design through upfront watershed modeling?	
9:00 – 9:45 am	Chair: Juergen Voegele , Sector Manager, Europe & Central Asia Region, World Bank Presenters <ul style="list-style-type: none"> • Professor Jeffrey Richey, River Systems Research Group, University of Washington • James Smyle, Natural Resource Management Specialist, Latin America & Caribbean Region, World Bank and Professor Ian Calder, Director, Centre for Land Use and Water Resources Research, University of Newcastle
9:45 – 10:30 am	Small Group Discussions
10:30 – 11:00 am	Coffee Break
<i>Session V – Institutional Lessons & Innovations</i>	
Watershed management typically involves striking a balance between the interests of upstream and downstream populations, and enforcing agreements. This requires reforming institutions or creating new ones. This session reviews recent institutional lessons and innovations.	
11:00 am – 12:15 pm	Chair: Vahid Alavian , Lead Water Resources Specialist, World Bank Institute Presenters <ul style="list-style-type: none"> • Albert Appleton, Senior Fellow, Regional Plan Association • Sylvia Tognetti, Independent Consultant • Stefano Pagiola, Senior Environmental Economist, Environment Department, World Bank • John Kerr, Assistant Professor, Michigan State University
12:15 – 12:35 pm	Questions and Answers
12:35 – 1:30 pm	Lunch Break (lunch boxes available)
1:30 – 2:30 pm	Small Group Discussions
<i>Concluding Session</i>	
2:30 – 3:45 pm Coffee Available	Chair: Erick Fernandes , Adviser, Agriculture & Rural Development Department, World Bank <ul style="list-style-type: none"> • Summary Remarks: David Cassells Senior Environmental Specialist, Environment Department, World Bank • Report Outs from Groups and Open Discussion
3:45 – 4:00 pm	Next Steps / Closing Statement Chair: Kenneth Chomitz , Lead Economist, Development Research Group, World Bank