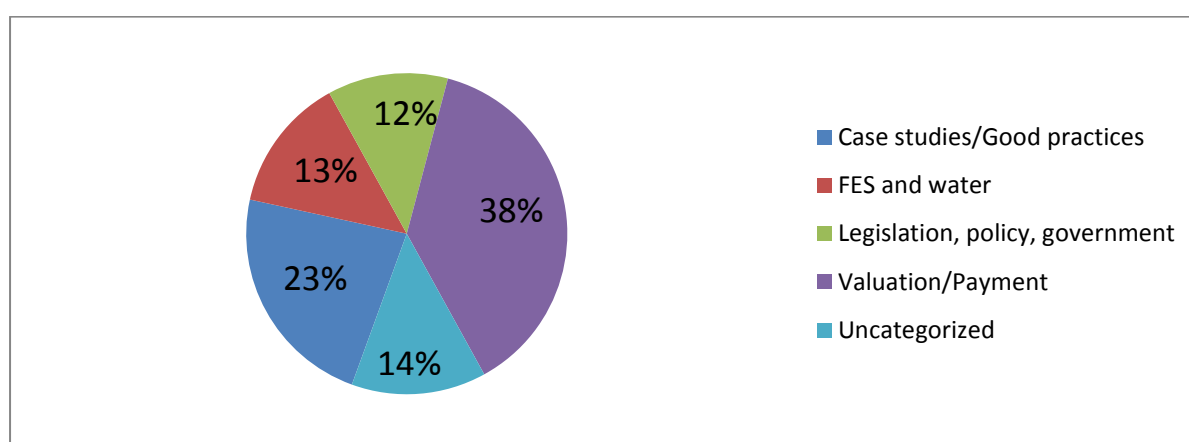
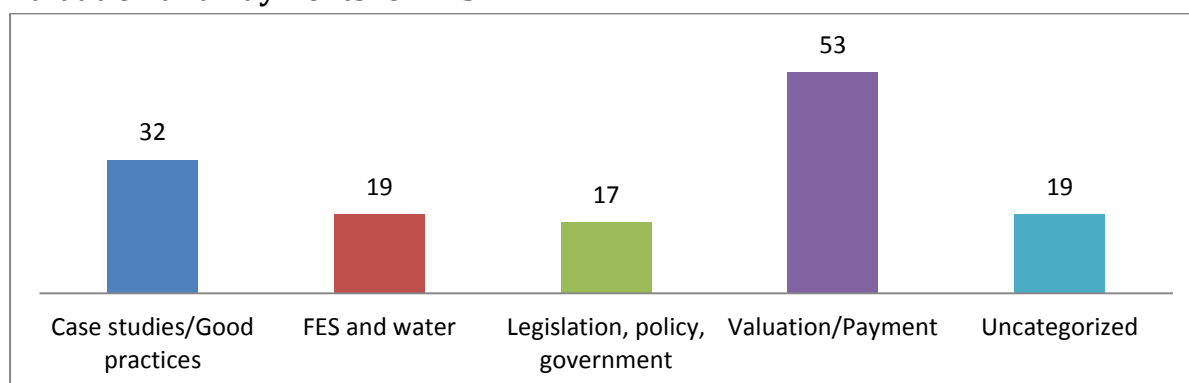


Question 1 - What would you expect from a study on “Forests and Water: Valuation and Payments for FES”?

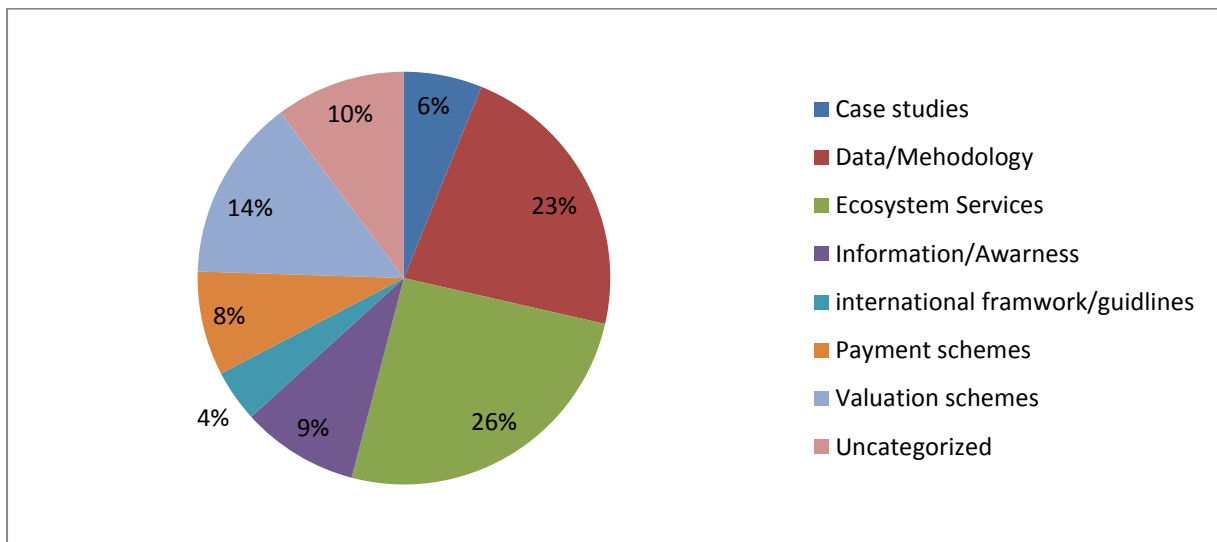
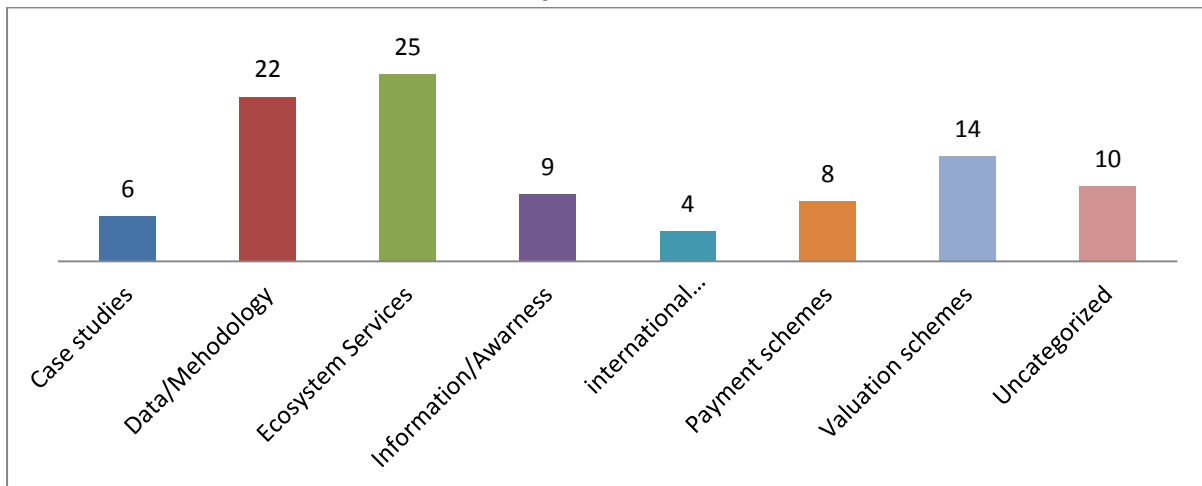


Category	Includes / searched for	Subgroup
Case studies	Examples, story, stories	Negative expl
	I would like to hear of 5-10 success stories	
<u>Examples of answers:</u>	This is a relevant, needed and ambitious initiative. We are right now at the state of assessing ecosystem extent and condition. This study would give insights in existing initiatives and case studies and help to identify gaps in data, information tools and methodological approaches.	
	A good overview of current practices in the (Northern) temperate zone, including a handful of lessons /findings supported by case studies.	
Good practices	tools	
<u>Examples of answers:</u>	Good practices. Study cases and lessons learnt.	
Info on ES water/forest	Water retention, soil protection, geology, soil, water quality; forest products-tension with ES; Definition on forest; Interrelations;	Forest products and ES; Relation to Forest Management

	Role of plantations	
<u>Examples of answers:</u>	Knowledge of Role of forests in ecosystem, compensation under UNREDD+, carbon finance, forests economics and other related subjects. also knowledge of relation between forests and people regarding ecosystem as well as compensation value under REDD+ program	
	Connection between forest and water quality outcomes; greater understanding of forested wetlands and their value; underpinnings for credit system for wetland values and upland forests role in water quality	
	A clear linkages between trees and water system, the role of trees as an water enhancer- is this true, we need to prove the statement, which lead to establish the PES system, and enhance the role of proximate communities in the management of local forest resources.	
	The study should provide more information of how to integrate wood production (one important ecosystem service the forests provide) to other forest ecosystem services. Wood production is essential to maintain water resources and clean water, and after harvesting a new tree generation continues the cycle. We cannot put wood production and other forest ecosystem services against each other.	
	Environmental accounting of natural resources would help in the conservation of ecosystems. Due to lack of knowledge of services (provisioning, regulatory and supporting), today's decision makers have allowed the deforestation	
Legislation, policy, government	Creation of incentives;	Water Framework Directive and Habitats Directive for EU
<u>Examples of answers:</u>	Assessment of impacts (positive and negative) of forests on water quality. In light of the negative impacts come up with real practical and workable mitigation and ways to build it into best practice guidance backed up by legislation, monitoring and enforcement. In light of the positive impacts - promote and raise awareness of them.	
	<ol style="list-style-type: none"> 1. Global and local problems related to water access to different sectors 2. Climate change and future impacts scenarios: on forest and water resources 3. International and national policies and laws that promote water and forest 4. Overview of PES: what have work what not? 5. Barries and opportunities (including synergies adaptation and mitigation to CC) 6. use of new technologies to monitoring forest and water resources 	
Valuation and Payment schemes	<p>How to conduct research in that field;</p> <p>Subsidy schemes;</p> <p>International agreements;</p> <p>Up to date info;</p>	<p>Criteria, indicators, contracts, subsidies, context, actors;</p> <p>practical outcomes: voluntary guidelines, web-based info platform, good practices; tool packages</p>

	Examples of contracts; Good practices; compensation under UNREDD+, carbon finance, forests economics and other related subjects;	
<u>Examples of answers:</u>	To receive real value of one of major aspects of valuation of FES, on the basis of which will be calculate real value of payment for FES. The economic instruments in this field have to be improved and have to be based on direct payments, by the data from fresh water market, incl. personal and public demand and supply and real water consumption.	
	It will be useful to have access to information about current business models applied by forest owners' cooperatives in the area of forest ecosystem services, particularly in cooperation with the water sector. Figures expressing the economic valuation of the ecosystem service "sustainable water supply" might give a dimension to various stakeholders towards enhanced commitment with sustainable water stewardship. In addition, a progress report on the efforts to reduce water use in the forest-based industries.	
	An overview about (a) methods of valuation and (b) values and concepts for payments of Water FES.	
	-State of the art of monetary evaluation of services - no billion USD	
	Output of study - how can private investors achieve financial returns from investing in Payments for FES project, and thus be attracted to invest.	
	Discussion of valuation methods, and strengths and weaknesses of different methods. Examples of values calculated for example sites. Discussion of how to deal with uncertainty (particularly very rare, very costly events) and equity between different user groups. Discussion of how values vary by population and wealth of beneficiaries. Valuations should not rely mainly on contingent valuation methods.	
<u>Additional points</u>	Definition of forest	
	Recommendations	Recommendation for advocacy and lobbying
	Research, science	
	Assessment of impact	

Question 3 – From your perspective, what are the information gaps in the area of Forests and Water: Valuation and Payments for FES?



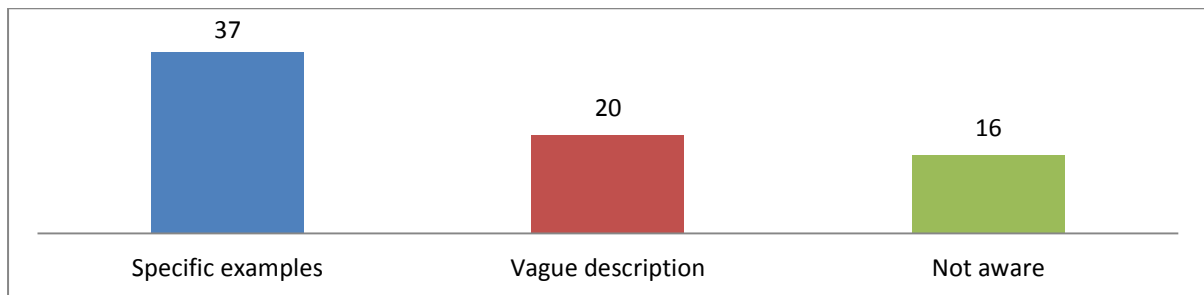
Category	Includes / searched for	Subgroup
Case studies		
<u>Examples of answers:</u>	choice experiments involving forest and water	
	Methods and experiences of different country	
Data/Methodology		
<u>Examples of answers:</u>	Definitely the "hard" scientific knowledge on forest ecosystem functions (the bio-physical cycles and functions) is lacking, i.e hydrology, water quality, etc. and the scientific data to relate these to standing forests. This is critical to define the agronomic actions to put in place, the results and outcomes to be written in PES contracts and the monitoring procedures to be designed.	
	The main gap is the big difference between the official data given by the country official forest department and the reality on the field.	
	Science of linkages between the role of forest resources in the increase	

	of water availability
	Cost, long term monitoring of impacts, novel monitoring systems
	Data from field (especially minor forest produce, oxygen production, regulating services)
Ecosystem Services	<p>Wood production;</p> <p>Quantification;</p> <p>Negative examples (eg. Plantations on hydrology);</p> <p>Consideration of land and agriculture;</p> <p>Effect of forest cover and forest management;</p> <p>Watershed management;</p> <p>Application of research knowledge;</p> <p>Connection to wetlands</p> <p>Relation carbon incentives and communities;</p> <p>What influence has the water to the forest?;quantification</p>
<u>Examples of answers:</u>	Clear mechanism identifying the effect of forest cover and forest management and quantifying it.
	there is knowledge gaps between relations of forests, carbon and incentive for community
	Quantifying water-related ecosystem services of specific forests / woodland planting schemes at relevant (e.g. catchment and sub-catchment) scales, trade-offs in ecosystem service provision, and expected changes with climate change.
	<p>Enhance watershed management regarding the input side a stabilization of the water flow and a mitigation of erosion could be achieved by an improved management of forests and other ground covers</p> <p>- Determine model water infiltration with hydrological model for a selected area with afforestation and its effect on floods.</p> <p>- What would be the loss of revenue caused by precautionary lowering of the water levels in order to extent storage capacities for flood waves – compared with the operational mode designed for a maximum of electric generation?</p> <p>- Make suggestions on how losses caused by precautionary releases to avoid floods could be compensated.</p> <p>At the same time benefits and avoided flood damage downstream of the Drini Cascade can be expected through an adjusted reservoir management. Therefore the study should:</p>

	- Elaborate benefits and rough estimates on avoided flood damage downstream of Drini Cascade through adjusted operational rules.	
	The production of clean water sources the role of forests unknown enough. Pricing is done in bringing to the consumer the reserve area. Springs, rivers and lakes can be achieved from the sale of water obtained from regular income to increase the forest area.	
Information/Awareness	Availability of information; What happens in absence of payments?	
<u>Examples of answers:</u>	Main gaps relate to availability of non-biased local information on forest and water services and their interdependences. Availability of studies on valuation of FES in developing and underdeveloped countries.	
	Which groups of buyers and service providers actually exist? What incentives buyers to pay? How does payment distribution work? What performance monitoring & evaluation is done?	
	A governance and regulation official scheme, general awareness, landscapes approach in order to treat forests and water as connected	
	Information on the different possibilities of implementation.	
International framework	Global matrix of all PES, services, products; Contextualize existing payment and valuation schemes; Guidelines and toolkits	
<u>Examples of answers:</u>	An overarching framework putting the existing ecosystem valuation studies into context. There are a number of existing studies on recreational values in forest and water areas, but physical links between the forest and water interaction are largely missing. Ground water studies are difficult to go after with WTP studies (at least across all the countries), replacement costs may come into play. However, even in that case comparability across countries is important to recognize. Do you consider the current situation as the counterfactual (i.e. baseline scenario) or some earlier status before e.g. rapid deforestation.	
	Main gap is a global PES matrix for all products and services	
	1. Development of standard frameworks that may be used and accepted globally. 2. International guidelines/conventions on inter-state Payment of FES services.	
	Guidelines and toolkits for community participated valuation of FES for ensuring payments by agencies undertaking developmental work in areas of community control and otherwise as well	

Payment schemes	Robust payment schemes; how to establish a market; how can the trade become a working system?	
<u>Examples of answers:</u>	Analyse the efficiency of various financial incentive systems for enhanced provision of environmental services, including payment for ecosystem services (PES) and PES-like schemes. Investigate the effects of various forest management practices on water use and lifecycle perspective in a context of climate change, considering ecosystems' resilience and conservation of biodiversity	
	Practical links between forest conservation and management and cost-savings for water treatment and supply. As stated above, general numbers on ES value are fine, but don't mean much to the average person. Building a practical case that forested watershed protection saves money is more powerful, both for the public and for water utilities and others that can really do something about watershed protection.	
	Management systems that receivers of payments can perform and the frame they can perform in to stabilise the supply of water-related services; conditions under which receivers of ES are not only willing to pay but pay (meaning: what do we have to reach that the trade works); interaction of up and down stream trades with the outside world (drivers for success or failure from outside).	
	Finance - how to make these types of projects attract the mainstream finance that is needed	
Valuation schemes	Non-market values; how to value ES; Acceptation of methods applied; Poor versus rich people	
<u>Examples of answers:</u>	Lack of economic values on role of woodlands in alleviating flooding and in improving water quality. This is partly because we need more scientific data, especially on the role of woodlands in alleviating flooding	
	Reliable methods for valuation of FES	
	Data needed to value the water service is not easy to access especially in case of some developing countries.	
	best practice knowledge - particular examples with relevant information on development and acceptance of valuation methods and payment schemes	
<u>Additional points</u>	best practice knowledge - particular examples with relevant information on development and acceptance of valuation methods and payment schemes	
	No info gap; but political issue	

Question 4 – Could you give examples of existing valuation approaches and payment schemes for water-related FES in the region?



Specific examples:

We spent several years on FES for drinking water. We lead a three year project with the INRA Laboratoire d'Economie Forestière (2006-2009).

- Households Value the Natural Image of Woodland Water

The objective of this study was to assess the willingness of households to pay for "natural" water from forested areas (with minimum treatment to make it pure enough to drink). The contingent valuation indicates that households would be prepared to pay up to €50 extra per year for tap water from forest sources (Fiquepron, 2010)

- Planting Forests to Protect Water

The objective of woodland areas for catchment protection is to capture the benefits of the water-related service provided by forests. Many local authorities have already invested in woodland planting to protect the water resource in areas that are particularly vulnerable to pollution. These woodlands act in two ways: a minimal pollution dilution role in areas that generate high-quality water, and as a purifying filter if the root system is exposed to an inflow of polluted water to the catchment.

The work carried out by the city of Rennes is exemplary in this respect, with in excess of 70 ha of woodlands planted around one of its catchment sites for a total cost of €6300 per hectare (rising to €14,700 per hectare when land purchase is included). The result has been to lower the nitrate content of the water by some 20% as well as to avoid a potentially costly change of catchment. In this model, the local authorities must fund the land purchase and woodland planting to create protective forest cover.

- Forest Catchments: a Resource to Be Preserved in the Long Term

Technical and economic studies were conducted as part of the Interreg Alpeau project (www.alpeau.org) to test the options available for the long-term preservation of gravity-fed springs and to optimise their operation. At the catchments managed by the Syndicat Intercommunal des Eaux des Moises (SIEM – Haute-Savoie – France), the results showed that based on total costs (operating and infrastructure cost), pumping water from the lake downstream (Lake Geneva), including ultrafiltration water treatment, is 46 times more expensive (€1 per cubic metre) than taking the water from forest catchments upstream (€0.02 per cubic metre). Treating the pumped water is 93 times more expensive than treating the water from forest areas, which requires only simple preventive chlorination. These significant cost differences show that local authorities or water boards could leverage financial flexibility to fund preventive actions for the protection of their forest catchments.

- A Valuable Resource... But at a Cost

The Masevaux site (in the Haut-Rhin area of Eastern France) is an example of forestry management suited to the conservation of springs tapped in mountain areas. Forestry management measures are already in place

and the actual additional forestry management costs for drinking water production amount to €40 per hectare per year.

- In Brief

"You could do worse, but it costs more!" is the very general conclusion to be drawn from these assessments, with two clear advantages attaching to water from forest sources: it is naturally drinkable, and there are potential savings to be captured on the cost of water treatment. The only shadow is cast by the issue of funding the additional forest management costs generated by the need to protect the water resource.

UK (FC Woodlands for water scheme/SCAMP);
France (Vittel);
Germany (Bionade trinkwasserwald / Kaufering Groundwater);
Romania (Reforestation of watersheds);
Georgia (AgriGeorgia);
Denmark (Vigersted Groundwater Scheme);
Austria (Taugl);
Italy (Romagna Acque S.Q.A.);
Portugal (Green heart of Cork);
Spain (Western La Mancha Aquifer);
Switzerland (Henniz SA/Basel-Stadt Canton);

A number of valuation approaches are listed in the following publications:

<http://www.teebweb.org/countryprofile/nordic-countries/>

http://www.syke.fi/en-US/Research_Development/Research_and_development_projects/Projects/National_Assessment_of_the_Economics_of_Ecosystem_Services_in_Finland_TEEB_Finland/National_Assessment_of_the_Economics_of_%2816944%29

<http://norden.diva-portal.org/smash/get/diva2:701977/FULLTEXT01.pdf>

- Bionade / Trinkwasserwald
- St Tropez Municipality - SIDECM / La Verne Lake
- Syndicat des Eaux des Moises - private forest owner association
- Masevaux municipality

In the canton of Solothurn (Switzerland) the forest owner association in collaboration with the forest service developed different tools for forest owners and municipalities in order to help to value the forest water and to generate partnerships between the forest owners and other entities.

Syndicat Intercommunal des Eaux des Moises (FR)
Bionade (Rhön, DE)
Water supply in Munich (DE)

http://www.efi.int/files/attachments/publications/efi_wsctu_5_vol-1_en_net.pdf
http://www.efi.int/files/attachments/publications/efi_wsctu_5_vol-2_en_net.pdf

Two projects are ongoing - Eddleston water in Scotland, and Slowing the flow at Pickering, details can be found on the websites above. These do not yet have strong economic aspects.

1. Albania: Carbon Sequestration Project
2. Albania: Sustainable Forest Management (SFM) and other sustainable land uses in watershed management in the Ulza watershed

TEEB
Social Cost Benefit Analysis

Multi Criteria Analysis

www.waldwissen.net

see e.g. <http://www.harzwasserwerke.de/index2.html?freiwillig.html~haupt> (in German)

see e.g. <http://www.harzwasserwerke.de/index2.html?freiwillig.html~haupt> (in German)

The work done By UPM and the the Finnish Environmental Institute SYKE to integrate other ecosystem services to the production of wood in forests.

Hutovo blato, Bosnia and Herzegovina WWF Mediterranean study

South West England - <http://www.southwestwater.co.uk/index.cfm?articleid=12703>

Mondi wetland project - http://www.mondigroup.com/desktopdefault.aspx/tabid-2066/593_read-531

Water quality:

The Vittel scheme, France

SCamp project, UK (United Utilities and others)

Flood alleviation:

Slowing the Flow project, UK

<http://natuurwaardeverkenner.be/nwv2/index.jsf>

<https://www.natura2000.vlaanderen.be/media/3083>

Valuation approaches are described in following publications:

ŠIŠÁK, L. a kol.: Oceňování společenské sociálně - ekonomické významnosti základních funkcí lesa. 1. vyd. Praha: Ministerstvo zemědělství ČR, odbor lesního hospodářství, 2002. 71 s. ISBN 80-7084-234-2

VYSKOT, I. a kol.: Kvantifikace a hodnocení funkcí lesů České republiky. Ministerstvo životního prostředí, 2003, 186 s. ISBN 80-900242-1-1

Water supply and urban forest maintenance in Lausanne, Switzerland.

See the publication reported in question number 2

See links provided.

Check the last <http://www.forest-trends.org/documents/files/SOWI2014.pdf>

Convention de partenariat en faveur de la protection des eaux souterraines et des sources en forêt entre la Commune de Marchissy et l'AGFORS, Groupement forestier de la Serine. Switzerland

Look at the total Budget of the Town forests of Vienna; the ha and the produced amount of water. The water in Vienna ist top Quality (among the leading worldwide) and it is drinking water Quality from the pipes.

FONAFIFO, Costa Rica

Water funds, used in South America. The Guiana Shield Facility and its agreement with Iwokrama.

Check out the forestcarbonportal.com or watershedconnect.org for an existing list of forest and water ES projects

See Annex A in the OECD (2010) publication above. All the PES case studies are listed, included by objective.

Oasis Project from Boticario Foundation:

<http://www.fundacaogrupoboticario.org.br/pt/o-que-fazemos/oasis/pages/default.aspx>

1. Hydro-electric Projects in Himachal Pradesh have to provide royalty to Government of HP (12-15 % in the form of free power. 1 per cent of the project cost has to be contributed for Local Area Development Authority.

This amount is used in the infrastructure developmental activities in local areas.

Maybe not in the region, but anyway showing some cases: Bennett, G., and N. Carroll. 2014. Gaining Depth: State of Watershed Investment 2014.

The flow of goods or services which occur naturally by ecological interactions between biotic and abiotic components in an ecosystem is often referred as ecosystem goods and services. These goods and services not only provide tangible and intangible benefits to human community, but also are critical to the functioning of ecosystem. Valuation of ecosystem goods and services is essential to frame, prioritise and justify sustainable development policies oriented towards the protection or restoration of ecosystem. Forest ecosystems are among the most productive ecosystem after oceans and estuaries. Forests are multifunctional ecosystems that provide both ecological and economic security with provision of goods and services. The functioning and sustainability of global ecosystem depends much on the status of forest ecosystem. Forests are the basis of livelihoods for people who depend on forest goods and services. The degradation of forest is a critical problem, as it negatively affects the livelihood of the forest dwelling communities. However, the value of forest has often been overlooked in the process of decision making. In this context, valuation is necessary for effective conservation and management of forest resources. The present study estimates the value of forest ecosystem of Uttara Kannada district. The total economic value of forest ecosystem is comprised of value of provisioning, regulating, cultural and supporting services. The value of provisioning goods and services are computed by market price method. Surrogate prices are used for those provisioning goods and services which do not pass through market transaction. The value of regulating, cultural and supporting services is based on the values derived from literature. The total value of provisioning goods and services from the forests of Uttara Kannada district was estimated at Rs. 15,171 crores per year, which amounts to about Rs. 2 lakh per hectare per year. The total economic value was estimated to be Rs. 84,321 crores per year. The study clearly shows the undervaluation of forest goods and services that is evident when the estimated total economic value of forest and the value of forest resources calculated in national income accounting framework are compared. The quantification of all benefits associated with the forest ecosystem goods and services would help in arriving at an appropriate policy and managerial decisions. In absence of the ecosystem valuation, policy decisions are lopsided in favor of environmentally degrading practices by neglecting the diffuse social interests that benefit from the use and non-use characteristics of ecosystems.

palampur water governance initiative - GIZ (no web page)

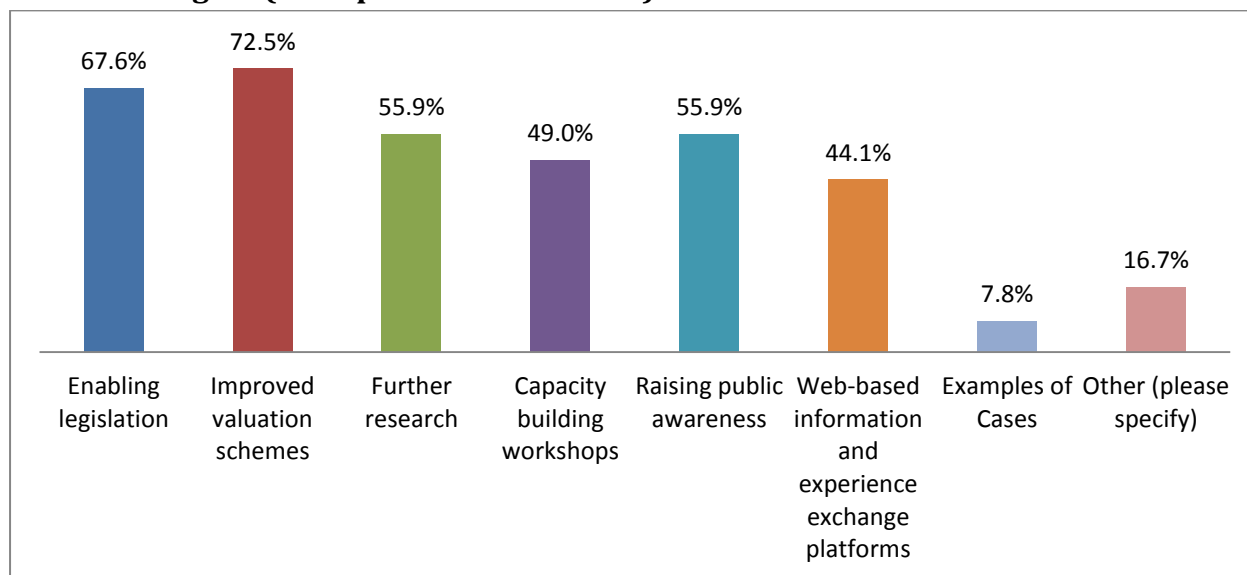
<http://www.himvani.com/news/2011/04/01/palampur-takes-lead-in-water-governance-in-himachal/>

Vietnam National Policy on Payments for Forest Ecosystem Services

City of Denver Watershed; City of Santa Fe, New Mexico; Catskills providing water to New York City; Chesapeake Bay Watershed program

City of Seattle (USA) watershed. Also the watershed where New York City sources its drinking water.

Question 5 – What, in your opinion, is needed to further internalize water-related FES in the region (multiple choices allowed)?



Other answers:

Finance sector should be included

Willingness to pay

	Categories
markets, somebody should pay for ecosystem services	Markets
Innovative financing mechanisms	
New language around valuing Natural Capital.	Markets
increasing the responsibility for schemes of valuation and for research results	Policies
Ensuring funding	
Enlarge the scope of the EU Water Directive from full pricing of the traditional water supply and post treatment services to the full water chain including the filtering and regulatory role of forests.	Policies
High level policy dialogues	Policies
Quality assurance schemes for water-related benefits of forests (along lines of those used for other ecosystem services - e.g. carbon standards)	Quality checking
Role of proximate communities in the management of forest resources, and watershed	
The phrasing of the question avoids the crucial issue. Internalisation may in some circumstances be useful, but the case can still be made that public goods should be provided by public action, rather than by trying to design incentive structures for the private sector, and that public bads should be limited by regulation.	
did not know how to cross these items above so 1-valuation schemes, 2-raising public awareness and 3-broden communication campaigns (6 times a year) implicate young students, religious authorities and county deputies + other associations acting in social / public education	
As I don't know what is the level of development I cannot say.	

All of them are important and effective way to do that.	
<p>"Internalisation" of these values need not imply payment for services. It could just as well (if not more) be done through the polluter pays principle, whereby those who compromise the services (be it forest owners or land "developers") be required to pay up.</p> <p>Payment for forest services is generally made possible by the fact that forests have no bank accounts. The payments can be received by forest owners, but there is no reason to assume that owners deserve a payment for the natural services of the ecosystems that they happen to own. Good stewardship of the land is the duty of the owner and it should not require extra compensation. Paying owners for not damaging forests is like paying teachers for not abusing children or paying drivers to drive at tolerable speeds. Such payments are perverse, as they represent the acceptance that the owner of the land is free to destroy it. It is likely to lead to insatiable demands for compensation for any service nature can provide.</p>	
All of the above	
Water-related FES are not considered a forest or agriculture service but rather a commercial service. This status led to a high level of taxation and consequently it scares the farmer and forest owner in several European countries.	
Workshops or conferences should incorporate private sector finance with those developing projects, together with governments and development finance. The finance sector is always missing from such events.	
Buyers willing to pay	
Require and incentivize forestry companies and public LAND managers to prove that silviculture practices can be tied to actual water balance. Privatize water supplies and require water utilities to set their prices to actual costs.	

Question 6 - Additional suggestions or recommendations

Please inform me about the results of this survey!	Wants contact
We would like to be involve in different workshops and trainings	Wants contact
Please come back to me, for more information.	Wants contact
I think my (somewhat dissenting) viewpoint should be clear from the above. This project should not be designed as yet another search for any possible benefit that can be claimed for forests, but an objective enumeration and evaluation of forests' benefits and costs. I would be prepared to participate in guiding such a study, but as a free-lance academic I cannot do so without remuneration.	Wants contact
Feel free to ask. Happy to discuss. Sorry, I cannot add more but I just wanted to revert as this passed by so to speak!	Wants contact
Please don't use your valuable resources to reinvent the wheel. Here in the US there is a lot going on with regard to this topic. Reach out, build on what's being done, and that will be very powerful.	Wants contact
Dear Paola and staff at UNECE/FAO, as University of Padova and ETIFOR we are leading the project ECOSTAR starting in January 2016. Check below because there is plenty of space for partnership with you. The ECOSTAR project (European Research and Enterprise Alliance on Marketing and Economics of Ecosystems and Biodiversity) is funded by the ERASMUS + KNOWLEDGE ALLIANCE. Duration: 3 years starting from 2016. ECOSTAR alliance aims to develop entrepreneurship and innovation skills and opportunities among Forest and Environmental Policy and Economics (FEPE) university departments in Europe, specifically targeting Italy, Spain, England and Rumania. The project focuses on promoting and fostering the links among high education institutions and businesses operating in the field of Marketing and Economics of Ecosystems and Biodiversity (MEEB). The major outputs of the project connected to the communication tasks are:	Wants contact
Partnering with local research to create a global network for action.	Wants contact
the construction of online information platform and the comunication throygh infographic allows to reach better a wider public, rather than reports and policy briefs which are more targeted to expert or people belonging to the sector	online info platform
The research on economic value of forest ecosystem services should include not only the quality and quantity of water resources, but also other forest services including, for example air quality, carbon sequestration etc.	
The linkage between forests and wetlands (biodiversity, water filtration and dampening flood peaks) should not be forgotten (while it is an easy boundary to make to keep the study tractable). Also one should consider (as a side note at the minimum) the role of forested areas in and near urban areas on water quality issues. Urban forests create recreation but also dampen high flood peaks and retain particles and nutrients (cost savings) while upkeeping local biodiversity. There are some studies looking into the value of urban forests (e.g. work by Liisa Tyrväinen from Natural Resources Institute Finland), but less so on the values related to water.	
Please consult the Annex to the Strategic Research and Innovation Agenda for 2020 of the European forest-based sector, Strategic Theme 3.3 Sustainable Water Stewardship and 2.2 Forest ecology and ecosystem services. Available on:	

http://www.forestplatform.org/files/SRA_revision/Renewed_SRA_for_2020_Annex_.pdf

Examples of systems that generates "money" with a clear link between the "users" and "providers" of water related FES under different "environments" and "institutional arrangements"

Study the experience in other countries.

Parabéns pela iniciativa.

Set up a Trust Fund from contributions from all the stakeholders for implementation of projects which could lead to more FES

international river issues and Riverine diplomacy depends the science being integrated with management options and bioethical decision analysis.

With #5 is more than enough

Turning words from different studies into figures. Policymakers need figures, no words

List of literature on forest and water <http://www.wsl.ch/dienstleistungen/publikationen/pdf/6184.pdf>

The study should take into account environmental change, including climate change and how the water-related forest ecosystem services can change under different conditions/scenarios. Also, what are the responses available to promote the provision of ecosystem services under different conditions and the robustness of those responses.

Include the value of forests and Mediterranean shrubs adding predictability to unstable water flows in high variable rain regimes such as the European Southern peninsulas

The main issue is land use planning, and the ability to regulate and manage land to deliver multiple benefits. Currently there is too much focus on single uses e.g. timber production or biodiversity - we need to manage smarter and better.

The natural capital concept will be hugely helpful in explaining this issue and promoting forestry's role in water

Limit the consideration of PES to payments for new, additional/incremental services to be delivered. Do not consider payments for just retaining what there is (extortion) or for what would happen anyway (natural expansion of forest).

Give references and we links in the document.

Water-related FES must be considered a agriculture or forest service hence taxed as a normal agriculture product. In Italy is taxed 22% compare to 4% of a "legal" agriculture product

Unified structured best practise example Sheets including:
Description
Enabeling Framework
Financing structure
Costs / Benefits

the development of simple schemes rather than complex algorithms is very useull

Would help to make clear when PES should be pursued (beneficiary pays) rather than other policy instruments that are based on the polluter pays approach. See page 180 in the OECD (2010) book for example.

Considering the rate of deforestation, we need to take up environment accounting in the regions rich with forest ecosystems - to highlight the services provided considering changes in the climate, etc.

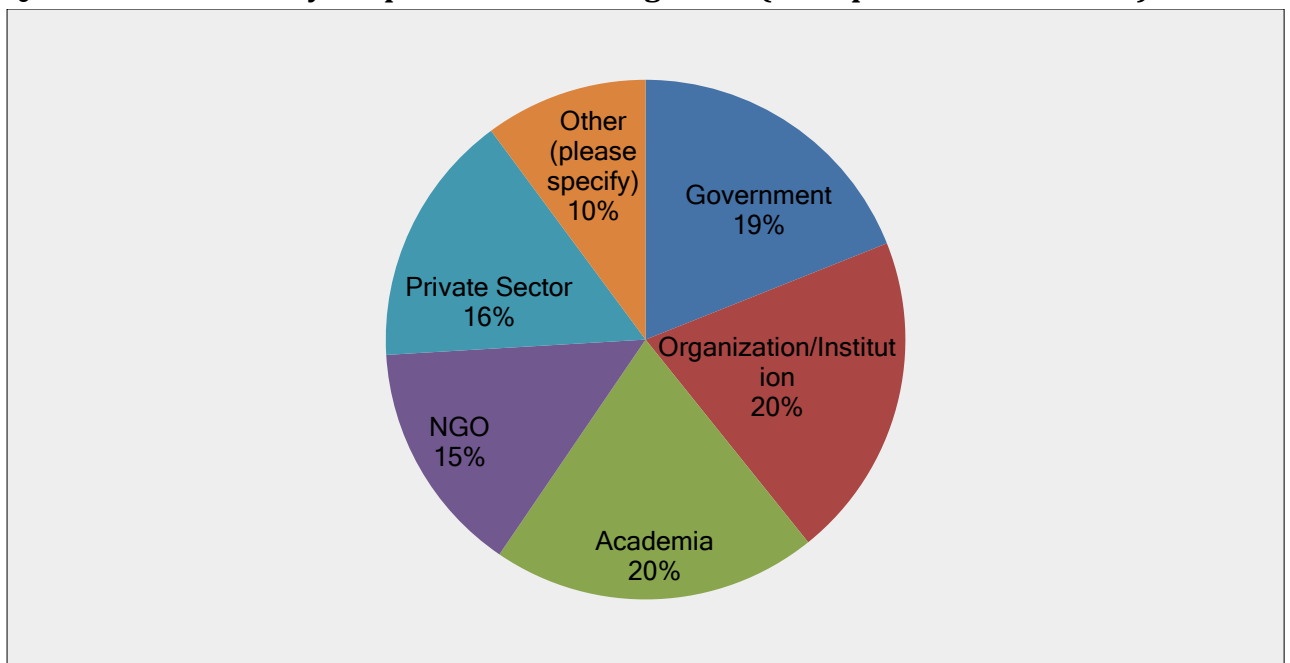
The research findings must be implemented in field to check the suitability of the recommendations and required modifications.

Active empirical research between forest management and water yields has practically collapsed. Most of the (old) models from South Africa, Australia and the US are no longer being fed although we know climate change has made them obsolete. Providing a good overview of just on-going research and pointing out the gaps preventing us from connecting forestry and water valuation would be helpful. Borrowing from other LAND uses (agriculture) would help in developing some "landscape" approaches. Lastly, remember that forests are the crop and LAND is the connection so an assessment of how LAND governance impacts valuation is a must.

identify good case studies for upscaling and uptake at the policy level

In light of behavioural economics findings, we should avoid use of contingent valuation because of problems with salience, and problems valuing low probability events.

Question 7 - What is your professional background (multiple choices allowed)?



Q2 What sources of information on valuation and payments for FES of relevance to the study would you recommend?

Answered: 82 Skipped: 23

Answer Choices	Responses	
Links to websites	75.61%	62
Names of publications	57.32%	47
Names of organizations	70.73%	58
Names of academic institutions	46.34%	38
Other (please specify)	23.17%	19

#	Links to websites	Date
1	http://www.foretriveefrancaise.com/eau 2 short documents are available in english: http://www.cnpf.fr/woodlands-for-drinking-water-259672.html	1/18/2016 1:06 AM
2	http://www.wiserearth.org/aof/809 http://www.wiserearth.org/organization/limitToMasterid/809/limitToType/aof http://www.economics.noaa.gov/?goal=ecosystems http://www.greeneconomics.org.uk/	1/15/2016 5:58 PM
3	http://www.forestry.gov.uk/fr/infd-7wuhpw ; http://www.ecosystemmarketplace.com/marketwatch/water/europe/ ; http://www.watershedconnect.org/programs/ ;	1/15/2016 5:56 PM
4	http://www.fao.org/forestry/37705/en/ http://www.gwp.org/en/ToolBox/TOOLS/Management-Instruments/Ec http://www.globalwaterforum.org/onomic-Instruments/Payment-for-Environmental-Services/	1/15/2016 11:26 AM
5	www.evri.ca / http://www.teebweb.org/countryprofile/nordic-countries/	1/15/2016 9:21 AM
6	www.ltu.bg	1/15/2016 8:32 AM
7	http://www.aquafit4use.eu/ Project aims at making industries more independent of the supply of fresh drinking water for their production processes. http://spire2030.eu/prodias Prodias project focus on the development of cost- and energy-efficient water removal of industrial downstream processes. http://www.arange-project.eu/ . The scope of the project ARANGE includes identification of economically efficient management strategies for generic portfolios of ecosystem services from landowner and public perspectives. http://www.climsave.eu/ Development of web-based tool to assess impacts of climate change and vulnerability in sectors such as forestry and water resources.	1/14/2016 5:15 PM
8	There are no web pages in Sweden that address water related forest ecosystem services specifically. FAO, CIFOR and Forest Trends etc. all provide good information on their web pages	1/14/2016 11:08 AM
9	http://www.sylvamed.eu/?page_id=964 ; http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&n_proj_id=2365 ; http://www.foretriveefrancaise.com/valoriser-les-services-rendus-800884.html	1/13/2016 2:20 PM
10	www.teebweb.org ; http://www.ecosystemmarketplace.com/	1/13/2016 8:43 AM
11	www.alpeau.org ; www.forest-trends.org ; www.ecosystemmarketplace.com	1/12/2016 6:09 PM
12	Yes	1/12/2016 3:19 PM
13	http://www.forest-trends.org/program.php?id=295 ; http://bewaterproject.eu/ ; http://www.waldwissen.net/wald/boden/wsl_grundwasserschutz/index_DE ; http://www.ecosystemmarketplace.com/	1/12/2016 10:27 AM
14	http://www.ogm.gov.tr , https://www.maliye.gov.tr , http://www.tbb.gov.tr/	1/11/2016 12:49 PM
15	No, because I do not know about similar studies in our country	1/11/2016 11:17 AM
16	http://www.mma.gov.br	1/8/2016 6:56 PM
17	http://www.ipbes.net	1/8/2016 3:01 PM
18	-	1/8/2016 2:05 PM

Forest and Water - Valuation and Payments for Ecosystem Services

19	www.sws.org ; www.esa.org ;	1/8/2016 1:01 PM
20	No information available on valuation and payments for FES; still at level on ecosystem extent and condition, ancillary information see http://nwrn.eu/measures-catalogue the forest topics	1/8/2016 10:28 AM
21	I recommend a Stratified random sampling, with a 5 per cent error. A guide study model to follow for this situation could be the study carried out, in Morocco, to evaluate, country-wide (in rural and urban areas) the forestry wood energy consumption. For more detail, come back to me (m.ellatifi@gmail.com).	1/8/2016 10:03 AM
22	www.msfp.org.np , www.forestation.org	1/8/2016 7:21 AM
23	http://www.ecosystemmarketplace.com/ , http://www.ecosystemmarketplace.com/articles/opinion-nine-steps-towards-doubling-the-value-of-us-mitigation-markets/ , https://www.youtube.com/watch?v=roZpxsTUJYM ,	1/7/2016 11:38 PM
24	http://www.v-c-s.org/sites/v-c-s.org/files/VM0021%20Soil%20Carbon%20Quantification%20Methodology,%20v1.0_0.pdf	1/7/2016 9:01 PM
25	Websites of relation institutions/organizations.	1/7/2016 6:15 PM
26	https://www.evri.ca/Global/Splash.aspx Environmental Valuation Reference Inventory	1/7/2016 5:55 PM
27	http://www.forestry.gov.uk/fr/woodlandbiodiversity http://www.forestry.gov.uk/fr/INFD-7YML5R http://www.tweedforum.org/projects/current-projects/eddleston	1/7/2016 5:24 PM
28	wwf.org.ph/downloads/pubs/PES.pdf	1/7/2016 3:52 PM
29	Financial data e.g how much a Hydro-power is benefit because the forests are protecting the land from erosion	1/7/2016 3:09 PM
30	www.teeb.com http://www.wageningenur.nl/en/Expertise-Services/Research-Institutes/alterra/show/dossierEcosystemservices.htm http://www.wageningenur.nl/en/Expertise-Services/Research-Institutes/alterra/show/Flooding.htm	1/7/2016 9:26 AM
31	1. ALPEAU http://www.alpeau.org/ 2. tool for calculating additional costs for forest enterprises on FES (only in german http://www.wsl.ch/dienstleistungen/produkte/software/trink_wa_schutz_tool/index_DE#) 3. FOEN on forest and water http://www.bafu.admin.ch/wald/01198/01208/index.html?lang=en	1/6/2016 4:40 PM
32	valuation: https://www.evri.ca/ ; pes: http://www.apps.oas.org/pes/	1/5/2016 7:12 PM
33	valuation: https://www.evri.ca/ pes: http://www.apps.oas.org/pes/	1/5/2016 4:05 PM
34	http://www.fao.org/forestry/finance/en/ , http://ec.europa.eu/environment/nature/knowledge/ecosystem_assessment/ , http://ec.europa.eu/environment/water/index_en.htm	1/3/2016 5:06 PM
35	I don't think I have anything to add to what other people would give, especially as I don't go looking for such sites.	12/30/2015 6:05 PM
36	http://www.upm.com/About-us/Newsroom/Releases/Pages/UPM-and-SYKE%E2%80%99s-study-on-ecosystem-services-provides-more-insight-into-the-environmental-impacts-of-wood-based-products.aspx	12/29/2015 1:50 PM
37	http://www.abdn.ac.uk/geosciences/departments/geography-environment/northern-rivers-institute-902.php ; https://www.youtube.com/watch?v=gzNWnREZ2xl ;	12/28/2015 7:21 PM
38	still to be checked	12/23/2015 8:54 AM
39	http://www.woodlandtrust.org.uk/publications/2013/02/the-pontbren-project/ http://www.confor.org.uk/NewsAndEvents/Listings.aspx?pid=28&id=2791 http://www.forestry.gov.uk/fr/slowingtheflow	12/22/2015 3:59 PM
40	World resources institute http://www.wri.org/publication/forests-water . Forest Research on the 'Slowing the Flow' project http://www.forestry.gov.uk/fr/slowingtheflow	12/21/2015 6:16 PM
41	www.uantwerpen.be/en/rg/ecoplan/ ; www.nara.be	12/21/2015 11:45 AM
42	-	12/19/2015 8:11 PM
43	estvecorbera.com ; http://invaluable.fr/language/en/	12/18/2015 2:10 PM
44	http://www.bafu.admin.ch/wald/01198/01208/index.html?lang=en ; http://www.alpeau.org/ ; http://www.wsl.ch/dienstleistungen/produkte/software/trink_wa_schutz_tool/index_DE ; http://www.wald.ch/m/mandanten/88/download/WALDundHOLZ2_2009_Grundwasserschutz_kostet.pdf ;	12/18/2015 12:06 PM
45	NPWS.ie , Inlandfisheries.ie , EPA.ie	12/18/2015 10:53 AM
46	http://www.teebweb.org/	12/17/2015 5:21 PM
47	-----	12/17/2015 5:10 PM
48	http://paduaresearch.cab.unipd.it/7832/	12/17/2015 3:28 PM

Forest and Water - Valuation and Payments for Ecosystem Services

49	http://www.brr.cr.usgs.gov/projects/Burned_Watersheds/index.html	12/17/2015 2:07 PM
50	http://www.sharp-partnership.org/ , http://www.cifor.org/project-websites/payment-environmental-services/	12/17/2015 11:59 AM
51	http://www.ecosystemmarketplace.com/	12/17/2015 11:58 AM
52	www.alpeau.org	12/17/2015 11:52 AM
53	www.catie.ac.cr	12/16/2015 3:35 PM
54	www.ecosystemmarketplace.com	12/16/2015 2:11 PM
55	www.oecd.org/env/biodiversity	12/16/2015 1:50 PM
56	http://www.ie.ufrj.br/index.php/gema ; http://www.fundacaogrupoboticario.org.br/pt/o-que-fazemos/oasis/pages/default.aspx ; http://waterfootprint.org/en/ ; http://www.mma.gov.br/estruturas/202/_arquivos/psa_na_mata_atlantica_licoes_aprendidas_e_desafios_202.pdf	12/16/2015 1:41 PM
57	http://wgbis.ces.iisc.ernet.in/energy/water/paper/researchpaper2.html#f	12/16/2015 7:24 AM
58	http://www.carenepal.org/uploads/pdf/publication/_PES_Briefing_Document.pdf	12/16/2015 7:08 AM
59	http://aboutvalues.net/	12/16/2015 5:35 AM
60	http://www.fao.org/forestry/42751-0c9ad04946d67dd5dd199e874f688433a.pdf ; http://pdf.usaid.gov/pdf_docs/Pnadi517.pdf	12/16/2015 2:36 AM
61	http://www.gwp.org ; http://www.cepal.org/en ; http://aquapedia.waterdiplomacy.org/wiki/index.php?title=Main_Page	12/16/2015 1:57 AM
62	http://www.teebweb.org/countryprofile/asean/	12/16/2015 1:43 AM
#	Names of publications	Date
1	Bansept A., Figuepron J., 2014. Protéger et valoriser l'eau forestière, guide pratique national du projet « EAU + FOR », FPF CNPF, 156 p. Pages 109 to 115 deal of economic valuation. http://www.foretriveefrancaise.com/protoger-et-valoriser-l-eau-forestiere-445890.html . (2012). SEMEAU INTERNATIONAL CONFERENCE. How to combine Forest Management, Local Development and Protection of Surface and Groundwater? Vulcania, Clermont-Ferrand, France, October 17-19, 2012. Slides presented at the SEMEAU conference available at http://www.life-semeau.eu/en/proceedings Figuepron J., Picard O., Bansept A., Toppan E., 2015, Woodlands for drinking water: best management practices and partnerships, in Soil Degradation Risks in European Planted Forest, FORRISK conference - Bilbao, 09-10-14, pp. 97-104 Figuepron J. (2010).- L'aspect naturel de l'eau potable d'origine forestière a une valeur pour les ménages, Forêt entreprise, 193 : 36-38.	1/18/2016 1:06 AM
2	Common, M. and Stagl, S. 2005. Ecological Economics: An Introduction. New York: Cambridge University Press. Daly, H., and J. Farley (2010). Ecological Economics: Principles and Applications. Island Press	1/15/2016 5:58 PM
3	Nisbet, T., Roe, P., Marrington, S., Thomas, H., Broadmeadow, S. and Valatin, G. (2015). Slowing the Flow at Pickering. Final Report to Defra of FCERM Multi-objective Flood Management Demonstration Project RMP5455: Phase II, Forest Research (http://www.forestry.gov.uk/pdf/FR_STF_Pickering_P2_May2015.pdf/\$FILE/FR_STF_Pickering_P2_May2015.pdf). Valatin G. and Coull, J. (2008) Payments for Ecosystem Services: Findings and Perceptions from the USA. Forestry Commission, Edinburgh, http://www.forestry.gov.uk/pdf/PES_report_Jan08.pdf/\$FILE/PES_report_Jan08.pdf ; Bennett, G., Carroll, N., Bennett, M., Leonardi, A. and Moull, K. (2014). Gaining Depth State of Watershed Investment 2014. Forest Trends Ecosystem Marketplace, Washington, D.C.; Binner, A. et al (2016, in prep). Scoping study on valuing the social and environmental benefits of trees and woodlands in England, Scotland and Wales, Report to the Forestry Commission.	1/15/2016 5:56 PM
4	There are a huge number of articles published in such journals as: Global Environmental Change, Ecological Economics, Ecosystem Services, Environmental Science and Policy, Forest Ecology and Management	1/15/2016 11:26 AM
5	National Assessment of the Economics of Ecosystem Services in Finland (TEEB Finland) – Synthesis and Roadmap	1/15/2016 9:21 AM
6	Shuleva-Aleksova N., Water protected forest assesment, PhD thesis; Kostov, G.FES assesment; Raev, I. Hidrological role of Forests	1/15/2016 8:32 AM
7	(1) A recent publication in Sweden is from the Nature Protection Agency "Guide för värdering av ekosystemtjänster. ISBN 978-91-620-6690-1" (translated title "Guide for valuation of eco-system services). The study is general and does not cover forest & water only. (2) There are several other publication that are useful while at the same time illustrating the complexity of this issue e.g. a. Forests and Water – International Momentum and Action (FAO, 2013); b. Forests and floods - Drowning in fiction or thriving on facts (FAO, 2005); c. Payments for environmental services: Some nuts and bolts (CIFOR Occ.I Paper No. 42)	1/14/2016 11:08 AM

Forest and Water - Valuation and Payments for Ecosystem Services

8	Financial contribution of a water union to the management of a defence zone against forest fire along a strategically fire defence road (DFCI); State of art of ecosystemic services that Mediterranean forests offer in the Water issue, Sylvamed, 2013.; Protéger et valoriser l'eau forestière, guide pratique national réalisé dans le cadre du programme "EAU + FOR",2014;	1/13/2016 2:20 PM
9	Kosenius, A-K., Haltia, E., Horne, P., Kniivilä, M. and Saastamoinen O. 2013. Value of ecosystem services? Examples and experiences on forests, peatlands, agricultural lands, and freshwaters in Finland. PTT Reports 244. 102 p.; Saastamoinen, O., Matero, J., Haltia, E., Horne, P., Kellomäki, S., Kniivilä, M. & Arovuori, K. 2013. Concepts and considerations for the synthesis of ecosystem goods and services in Finland. Publications of the University of Eastern Finland, Reports and Studies in Forestry and Natural Sciences, No. 10. University of Eastern Finland. 108 p.;Kniivilä, M., Kosenius, A.-K. & Horne, P. 2015. Case: Habitat Banking. In: Jäppinen, J.-P. & Heliölä, J. (eds.): Towards A Sustainable and Genuinely Green Economy. The value and social significance of ecosystem services in Finland (TEEB for Finland). The Finnish Environment, Ministry of the Environment. Pp. 88-91.; Kniivilä, M. and Saastamoinen O. 2013. Markets as a policy instrument for safeguarding and advancing ecosystem services. PTT Working Papers 154. 32 p. (In Finnish with abstract in English)	1/13/2016 8:43 AM
10	Guide alpeau 2012 (Interreg); Spjevak und Bürgi_2008_Mehraufwand_Minderertrag_trinkwasserschutz; Econcept 2013 Schlussbericht_Ökosysteme und ihre Leistungen erfassen und räumlich darstellen; UN 2014-The Value of Forests PES in a green economy;TEEB 2010 Einfuehrungsbericht	1/12/2016 6:09 PM
11	Yes	1/12/2016 3:19 PM
12	Genevieve Bennett, and Nathaniel Carroll. 2014. "Gaining Depth - State of Watershed Investment 2014." Washington DC: Ecosystem Marketplace	1/12/2016 10:27 AM
13	Hürriyet Gazetesi, Sözcü Gazetesi, Cumhuriyet Gazetesi	1/11/2016 12:49 PM
14	Payments for Ecosystem Services Getting Started: A Primer; The Provisions of Forest Ecosystem Services Volume I: Quantifying and Valuing non-marketed ecosystem services	1/11/2016 8:19 AM
15	Economia dos Ecossistemas e da Biodiversidade	1/8/2016 6:56 PM
16	-	1/8/2016 2:05 PM
17	Look all publications available from the INVALUABLE research project (ERA-Net BiodivERsA) at www.invaluable.fr - look at PES publications, many on on PWS, especially in Indonesia	1/8/2016 10:26 AM
18	The Consumption of forest wood in Morocco. Study designed and supervised by Mohammed Ellatifi and al.	1/8/2016 10:03 AM
19	Piloting PES in Western Terai Landscape	1/8/2016 7:21 AM
20	There are thousands of publications on economic valuation of environmental services.	1/7/2016 5:55 PM
21	PES: Sustainable Financing for Conservation and Development	1/7/2016 3:52 PM
22	http://www.waldwissen.net/wald/naturschutz/gewaesser/fva_wasserhandbuch/index_EN	1/6/2016 4:40 PM
23	heaven, what a question. Three recommendations for pes: PATTANAYAK, S.K.; WUNDER, S.; FERRARO, P.J. (2010): Show Me the Money: Do Payments Supply Environmental Services in Developing Countries? Review of Environmental Economics and Policy; MATZDORF, B.; SATTLER, C.; ENGEL, S. (2013): Institutional frameworks and governance structures of PES schemes. Forest Policy and Economics 37 S. 57-64; SCHOMERS, S.; MATZDORF, B. (2013): Payments for ecosystem services: A review and comparison of developing and industrialized countries. Ecosystem Services 6 S. 16-30	1/5/2016 7:12 PM
24	heaven, what a question. Three recommendations for pes: PATTANAYAK, S.K.; WUNDER, S.; FERRARO, P.J. (2010): Show Me the Money: Do Payments Supply Environmental Services in Developing Countries? Review of Environmental Economics and Policy; MATZDORF, B.; SATTLER, C.; ENGEL, S. (2013): Institutional frameworks and governance structures of PES schemes. Forest Policy and Economics 37 S. 57-64; SCHOMERS, S.; MATZDORF, B. (2013): Payments for ecosystem services: A review and comparison of developing and industrialized countries. Ecosystem Services 6 S. 16-30	1/5/2016 4:05 PM
25	Barrow, P., Hinsley, A.P. and Price, C. The effect of afforestation on hydroelectricity generation: a quantitative assessment, Land Use Policy, 3 (1986), 141-51. Healey, J., Price, C. and Tay, J. The cost of carbon retention by reduced impact logging. Forest Ecology and Management, 139 (2000), 237-55. Price, C. Tree disease: the economic impacts of it all. Quarterly Journal of Forestry, 104 (2010), 224-30. Price, C. Regulating and supporting services and disservices: customary approaches to valuation, and a few surprising case-study results. New Zealand Journal of Forestry Science, 44 (2014), (Suppl 1): S5. McPherson, E.G., Simpson, J.R., Peper, P.J. and Xiao Qing Fu. (1999). Benefit-cost analysis of Modesto's municipal urban forest. Journal of Arboriculture, 25, 235-248.	12/30/2015 6:05 PM

Forest and Water - Valuation and Payments for Ecosystem Services

26	Natural flood management as a climate change adaptation option - Oana Iacob et al; Evaluating wider benefits of natural flood management strategies: an ecosystem-based adaptation perspective - Iacob et al. (2013). The Value of Scotland Water Resources - Martin-Ortega et al. (2014); Water Ecosystem Services: A Global Perspective - Martin-Ortega et al. Eds. (2015); Understanding the economic value of water ecosystem services from tropical forests: A systematic review for South and Central America - Ojea and Martin-Ortega (12/28/2015 7:21 PM
27	idem	12/23/2015 8:54 AM
28	Natural Infrastructure - Investing in Forested Landscapes for Source Water Protection in the United States Todd Gartner, James Mulligan, Rowan Schmidt and John Gunn (2013)	12/21/2015 6:16 PM
29	Jax K., Barton D.N., Chan K.M.A., de Groot R., Doyle U., Eser U., Görg C., Gómez-Baggethun E., Griewald Y., Haber W. et al. (2013). Ecosystem services and ethics. Ecological Economics 93(0):260-268.	12/21/2015 11:45 AM
30	-	12/19/2015 8:11 PM
31	http://www.civiland-zalf.org/download/PayingforGreen_PESinpractice.pdf	12/18/2015 2:10 PM
32	VANČURA, Karel. Les a voda v srdci Evropy: Forest and water in the heart of Europe. Brandýs nad Labem: Ústav pro hospodářskou úpravu lesů, 2007, 317 s. ISBN 978-80-7084-634-6; VYSKOT, I. a kol.: Kvantifikace a hodnocení funkcí lesů České republiky. Ministerstvo životního prostředí, 2003, 186 s. ISBN 80-900242-1-1; Valuation approaches are described in following publications:	12/18/2015 12:27 PM
33	-----	12/17/2015 5:10 PM
34	WRIGHT, J.A., DINICOLA, A., GAITAN, E. (2000). Latin American forest plantations: Opportunities for carbon sequestration, economic development and financial results. Journal of Forestry 98(9):20—23.	12/17/2015 3:32 PM
35	Characterizing governance and benefits of payments for watershed services in Europe	12/17/2015 3:28 PM
36	Literature dealing with the role of the humus (duff) and litter layer on water services. Please explore	12/17/2015 2:07 PM
37	the series "State of something like water/biodiversity/carbon market"	12/17/2015 11:58 AM
38	Guide Alpeau dans l'Arc alpin et jurassien	12/17/2015 11:52 AM
39	State of the Forest Carbon Markets; State of Watershed Markets; State of Voluntary Carbon Markets	12/16/2015 2:11 PM
40	OECD (2010) Paying for Biodiversity: Enhancing the Cost-effectiveness of payments for ecosystem services	12/16/2015 1:50 PM
41	Pagamento por Serviços Ambientais na Mata Atlântica: lições aprendidas e desafios; Experiências de pagamentos por serviços ambientais no Brasil; Bolsa Floresta: um instrumento inovador para da saúde em comunidades tradicionais na Amazônia; Pagamento por serviços ambientais: limites e oportunidades para o desenvolvimento sustentável da agricultura familiar na Amazônia Brasileira; Pagamento por serviços ambientais: experiências brasileiras relacionadas à água	12/16/2015 1:41 PM
42	Bennett, G., and N. Carroll. 2014. Gaining Depth: State of Watershed Investment 2014.	12/16/2015 9:49 AM
43	TEEB report, Robert Costanza's publications	12/16/2015 7:24 AM
44	Preliminary Assessment for Piloting Payment for Ecosystem Services in Lamjung	12/16/2015 7:08 AM
45	Plantation Forestry and Water: Science, Dogmas and Challenges (Walter de Lima Paula);	12/16/2015 2:36 AM
46	Global Water Partnership ; Water Program at ECLAC	12/16/2015 1:57 AM
47	ASEAN TEEB Scoping Study	12/16/2015 1:43 AM
#	Names of organizations	Date
1	EU JRC Ispra, Italy	1/18/2016 10:26 AM
2	Centre National de la Propriété Forestière, Fransylva	1/18/2016 1:06 AM
3	http://www.ecoeco.org.br/ http://www.elsevier.com/locate/ecocon http://www.ussee.org/ http://www.neweconomics.org/	1/15/2016 5:58 PM
4	Forest Trends	1/15/2016 5:56 PM
5	UNESCO, UNEP, FAO, GWP, IUFRO	1/15/2016 11:26 AM
6	Natural Resources Institute Finland / Finnish Environment Institute	1/15/2016 9:21 AM
7	Union of Bulgarian Foresters	1/15/2016 8:32 AM
8	Forest-based Sector Technology Platform (FTP), Confederation of European Paper Industry (CEPI), European Confederation of Woodworking Industries (CEI-Bois) and the Confederation of European Forest Owners (CEPF)	1/14/2016 5:15 PM

Forest and Water - Valuation and Payments for Ecosystem Services

9	FAO, CIFOR, Forest Trends, (in Sweden: the Nature Protection Agency, the Forest Agency, Meteorological and Hydrological Institute),	1/14/2016 11:08 AM
10	Forest Sciences Center of Catalonia (CTFC); Centre Régional de Propriété Forestière PACA; Institut de développement forestier (IDF); BRL ingénierie; Communauté de Communes de St Tropez	1/13/2016 2:20 PM
11	OECD, IUCN	1/13/2016 8:43 AM
12	Bundesamt für Naturschutz Konstantinstr. 110 53179 Bonn (D); Bundesamt für Umwelt BAFU in Bern (CH).	1/12/2016 6:09 PM
13	Yes	1/12/2016 3:19 PM
14	AGBAR, Forest Trends, Suez Environment...	1/12/2016 10:27 AM
15	Tema Vakfi, Ege Orman Vakfi	1/11/2016 12:49 PM
16	Ministério do Meio Ambiente (MMA), Confederação Nacional da Indústria (CNI)	1/8/2016 6:56 PM
17	-	1/8/2016 2:05 PM
18	Pew charitable trusts; land trust alliance; wildlife habitat council;	1/8/2016 1:01 PM
19	European Commission; European Environmental Agency	1/8/2016 10:28 AM
20	World Agroforestry Center (ICRAF) in Bogor, Indonesia and Nairobi, Kenya	1/8/2016 10:26 AM
21	FAO, WB, National Forest Inventory in Morocco.	1/8/2016 10:03 AM
22	ForesAction Nepal	1/8/2016 7:21 AM
23	Eco-Asset Solutions & Innovations LLC	1/7/2016 11:38 PM
24	The Earth Partners LLP	1/7/2016 9:01 PM
25	World Bank, IDA	1/7/2016 6:15 PM
26	UK Department of the Environment and Rural Affairs, Environment Canada, Australian Department of the Environment, CONNABIO Mexico, New Zealand Ministry of the Environment, US EPA, French Ministry of Ecology.	1/7/2016 5:55 PM
27	Forestry Commission, Woodland Trust, Environment Agency, Scottish Natural heritage	1/7/2016 5:24 PM
28	CIFOR; World Bank	1/5/2016 7:12 PM
29	CIFOR; World Bank	1/5/2016 4:05 PM
30	European Commission, FAO	1/3/2016 5:06 PM
31	Centre for Ecology and Hydrology, UK	12/30/2015 6:05 PM
32	Forest industry company UPM	12/29/2015 1:50 PM
33	SEPA (Scottish Environment Protection Agency);	12/28/2015 7:21 PM
34	idem	12/23/2015 8:54 AM
35	Regional Environmental Centre for Central Asia has done PES studies in the Issyk Kul basin - but probably not for forestry ecosystems.	12/22/2015 8:03 AM
36	Forestry Commission, United Utilities, World Resources Institute, Vittel, FAO	12/21/2015 6:16 PM
37	Research Institute for Nature and Forests	12/21/2015 11:45 AM
38	-	12/19/2015 8:11 PM
39	Conservation International are doing some good work on this in Rwanda	12/19/2015 1:52 PM
40	CIRAD	12/18/2015 2:10 PM
41	-----	12/17/2015 5:10 PM
42	FAO, RECOFTC, CIFOR	12/17/2015 4:52 PM
43	Università degli Studi di Padova	12/17/2015 3:28 PM
44	Global Impact Investment Network (GIIN)	12/17/2015 1:33 PM
45	Ecosystem marketplaces, ETIFOR	12/17/2015 11:58 AM
46	Forest owners, water companies	12/16/2015 4:05 PM

Forest and Water - Valuation and Payments for Ecosystem Services

47	CATIE, Costa Rica	12/16/2015 3:35 PM
48	GeaSphere, TimberWatch, Guiana Shield Facility	12/16/2015 3:31 PM
49	Forest Trends' Ecosystem Marketplace	12/16/2015 2:11 PM
50	OECD, CIFOR,	12/16/2015 1:50 PM
51	Fundação Grupo Boticário; Water Footprint Network; LIFE Institute	12/16/2015 1:41 PM
52	TEEB Reports; WAVES Studies; SEEA framework	12/16/2015 11:40 AM
53	IDDR (Fr)	12/16/2015 9:49 AM
54	Forest Research Institute, Dehradun, G B Pant Institute of Himalayan Ecology, Centre for Ecological sciences-Indian institute of Science	12/16/2015 7:24 AM
55	CARE Nepal, WWF Nepal, ICIMOD	12/16/2015 7:08 AM
56	New Forest Plantations Initiative, CEPI, Regenisis Water Group	12/16/2015 2:36 AM
57	ASEAN Centre for Biodiversity	12/16/2015 1:43 AM
58	Endowment for Forestry and Communities	12/16/2015 1:06 AM
#	Names of academic institutions	Date
1	TESAF University of Padova (prof. Pettenella), DICAM University of Trento (prof. Rigon, prof. Geneletti)	1/18/2016 10:26 AM
2	Laboratoire d'Economie Forestière	1/18/2016 1:06 AM
3	http://earthtrends.wri.org/index.php https://en.wikipedia.org/wiki/Gund_Institute_for_Ecological_Economics http://www.beijer.kva.se/ http://www.greeneconomics.org.uk/	1/15/2016 5:58 PM
4	CSERGE, University of Exeter, UK; Newcastle University, UK	1/15/2016 5:56 PM
5	Biotechnical Faculty	1/15/2016 2:02 PM
6	There are too many scientific institutions deals with the problem of PES to list here it is due to the analyzes of publications.	1/15/2016 11:26 AM
7	University of forestry, Sofia, Bulgaria; Forest research institute at Bulgaria academi of science	1/15/2016 8:32 AM
8	CIFOR, SLU (Swedish University of Agricultural Sciences),	1/14/2016 11:08 AM
9	Several: browse scientific databases	1/13/2016 8:43 AM
10	ETHZ Eidgenössische Technische Hochschule in Zürich (CH); Eidg. Forschungsanstalt WSL Zürcherstrasse 111 CH-8903 Birmensdorf (CH).	1/12/2016 6:09 PM
11	No	1/12/2016 3:19 PM
12	European Forest Institute	1/12/2016 10:27 AM
13	Ege Forestry Research Institute, West Blacksea Forestry Research Instute, Istanbul University of Forestry Faculty	1/11/2016 12:49 PM
14	http://www.teebweb.org/	1/8/2016 6:56 PM
15	-	1/8/2016 2:05 PM
16	University of Copenhagen (ecosystem extent, condition, ecosystem services and ecosystem capacity);	1/8/2016 10:28 AM
17	/	1/8/2016 10:03 AM
18	Wharton University, Howard University,	1/7/2016 6:15 PM
19	AREC Department, University of Maryland, College Park;	1/7/2016 5:55 PM
20	www.wsl.ch	1/6/2016 4:40 PM
21	Finnish Environmental Institute SYKE	12/29/2015 1:50 PM
22	The University of Aberdeen (Northern Rivers Institute); The James Hutton Institute; University of Leeds (Water@Leeds)	12/28/2015 7:21 PM
23	idem	12/23/2015 8:54 AM
24	Forest Research	12/21/2015 6:16 PM
25	http://www.ugent.be/bw/dfwm/en/research/fornalab	12/21/2015 11:45 AM

Forest and Water - Valuation and Payments for Ecosystem Services

26	-	12/19/2015 8:11 PM
27	ICTA	12/18/2015 2:10 PM
28	Czech university of life sciences Prague, Faculty of forestry, Department of Forestry Economics and Management. Mendel university of Brno, Faculty of forestry, Department of Forest and Wood Products Economics and Policy	12/18/2015 12:27 PM
29	-----	12/17/2015 5:10 PM
30	John A. Moody, Research Hydrologist, U.S. Geological Survey, jamoody@usgs.gov	12/17/2015 2:07 PM
31	World Agroforestry Centre	12/17/2015 1:33 PM
32	University of Padova	12/17/2015 11:58 AM
33	UFRJ, IPEF (Instituto de Pesquisas e Estudos Florestais)	12/16/2015 1:41 PM
34	Indian Institute of Forest Management, Bhopal	12/16/2015 11:40 AM
35	Institute of Forest Management in Bhopal, India	12/16/2015 10:06 AM
36	Institute of Forestry, Nepal	12/16/2015 7:08 AM
37	http://www.ufz.de/ , Thuenen Institute for Int. Forestry & Forest Economics (TI-WF)	12/16/2015 5:35 AM
38	Colorado State University, The Forest Dialogue (Yale), Guangxi University	12/16/2015 2:36 AM
#	Other (please specify)	Date
1	Institutions buying ecosystem services: water supply, power plants, owners of irrigation systems, etc.	1/15/2016 11:26 AM
2	Trinkwasserwald	1/12/2016 10:27 AM
3	Examples, Best-practice, What to do and what NOT to do	1/11/2016 3:26 PM
4	-	1/8/2016 2:05 PM
5	World Bank, Economic Commission, European Union	1/7/2016 5:55 PM
6	EU water directive	1/6/2016 4:40 PM
7	none	12/23/2015 8:54 AM
8	http://natuurwaardeverkenner.be/nwv2/index.jsf	12/21/2015 11:45 AM
9	-	12/19/2015 8:11 PM
10	Various Projects of National level regarding FES	12/17/2015 5:10 PM
11	Preference for articles in refereed journals.	12/17/2015 3:32 PM
12	Various institutional investors (pension funds, insurance companies), especially those with a social/environmental investment mandate	12/17/2015 1:33 PM
13	The town of Vienna has bought all forests in the watershed from which the water of Vienna is coming from. Forests are managed only for best water quality - timber and other income is not a priority. Forest management costs are reflected in the water price. There are delegations from all over the world to study this example.	12/17/2015 11:44 AM
14	100's of journal articles on PES, many are likely on forests & water	12/16/2015 1:50 PM
15	Prof. Carlos Eduardo Young (University of Rio de Janeiro); Prof. Sivio Rocha (IPEF); André Ferretti (Fundação Boticário)	12/16/2015 1:41 PM
16	Invest	12/16/2015 9:49 AM
17	research journals and study reports	12/16/2015 6:33 AM
18	How about utility and forest industry associations? CEPI	12/16/2015 2:36 AM
19	Build on the ecological economics literature, and note criticisms of reductionist western views of values.	12/16/2015 12:32 AM

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