



Yashwant Singh Rawat, Ph.D.

Forestry

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INDIA

Currently, I'm working on agro-forestry development, rainwater harvesting, renewable energy (biogas) production and use. I worked on agro-forestry, ecology and community based natural resource management issues in Indian Himalayan region. I have also worked on to explore the ecological, energy, economic and social dimensions of woody biomass production and use in Japan. My interest is on agro-forestry, ecology, biodiversity conservation and community based natural resource management. I gained a great deal of practical experience in the above said fields. My research findings have been adopted and extensively used by various stakeholders and organizations.

CURRENT RESEARCH

Topic	Methodology	Application
Improving the livestock carrying capacity with rainwater harvesting and conservation on grasslands for extensive and/or intensive livestock production and biogas generation from manure in rural areas of South Africa	<ul style="list-style-type: none">• GPS technology for mapping the homesteads• Rain water harvesting• Agro-forestry development• Energy utilization pattern and consumption• Biogas generation• Homestead development	<ul style="list-style-type: none">• Environmental conservation, sustainable energy consumption and use.• Rural area development.• Improve the quality of family life.

UKZN main Publications

1. **Rawat YS** et al. (2013). Biogas production from manure at household level in rural South Africa (Under internal review)
2. **Rawat YS** et al. (2013). Processes of homestead development in Drakensburg mountain of KwaZulu-Natal, South Africa. (under internal review)
3. **Rawat YS** et al. (2013). Energy utilization pattern of rural mountain communities of South Africa and India. (under internal review)
4. **Rawat YS** et al (2013). Household biogas use in rural South Africa: An innovative approach for sustainable development (Poster-under process).

Past Researches

1. **Rawat, Y.S.** and Everson, C.S. (2013). Availability and Use of Willow Species in Representative Cold Desert Areas of Northwestern Himalaya, India. *J. of Mountain Science*. 10(3):472-481.
2. **Rawat, Y.S.** and Everson C.S. (2012). Ecological status and uses of Junipers species in the cold desert of the Lahaul valley, North-Western Himalaya, India. *J. of Mountain Science*. 9: 676–686.
3. **Rawat, Y.S.** and Everson, C.S. (2011). *Inula racemosa* Hook. f.: A potential medicinal crop in cold desert agroecosystem North Western Himalaya, India. *J. of Medicinal Plant Research*. 5(26): 6218-6223.

Future Interests

Teaching, Research and development in the field of agro-forestry, ecology, biodiversity conservation and environmental sciences. International multidisciplinary research and development projects, Academic, Consultancy, Creative research and development

Extra Interests

Sports (cricket, table tennis) , Gym, Swimming, Travels, Nature