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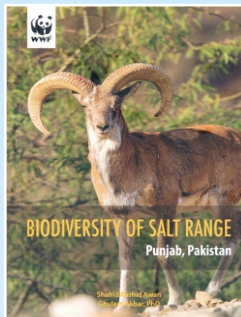


Dr. Muhammad Arshad  
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## FIRST BOOK ON BIOIDVERSITY



A Book titled "Biodiversity Salt Range Punjab", jointly written by Mr. Shahid Rasheed Awan, Deputy Secretary Planning, Govt. of the Punjab, Forestry, Wildlife & Fisheries Department and Dr. Ghulam Akbar, published by Worldwide Funds (WWF) Pakistan, comprising 215 pages and costing Rs. 1200/- per book, beautifully describes the diverse ecological conditions existing on earth, highlighting various habitats for the development of plants and animal communities, that reflect remarkable adaptability for the life under diverse ecological conditions. The book also targets different plant species that have evolved characters conferring drought and salinity tolerance. It also explains the conservation in terms of protection, preservation, management and restoration of wildlife and natural resources such as forests and water. The layout, presentation, quality of paper and clarity of photographs are outstanding features and worth seeing. It is the first book of its kind in the Pakistan which can help the students of environmental sciences as well as Forestry students. It is a great honour for the Punjab Forest Department that Mr. Shahid Rasheed Awan, has contributed such a wonderful and informative book, setting an example for scholars of the environment and its allied subjects.



## MASS PLANTING AT BAHAWALNAGAR BY SYED RIZWAN MAHBOOB, DCO

On the request of Syed Rizwan Mahboob, District Coordination Officer (DCO), The Punjab Forest Department organized a mass tree planting ceremony for the students in High School, where Syed Rizwan Mahboob, DCO, was the chief guest. Mr. Qazi Khalid, DFO, Bahawalnagar, and Mr. Qazi Khalid, DOF, Bahawalnagar, organized the entire event with the help of Publicity & Extension Forest Division and established a stall reflecting the products of the Forest wood and various steps involved in manufacturing of items such as hockey, cricket bat, matchsticks, paper etc.



Syed Rizwan Mahboob, Former DCO Bahawalnagar,  
planting sapling with Qazi Khalid, DFO Bahawalnagar



## Leucaena Leucocephala Lam Subabul (Iple Iple) ایل ایل

It is Native to Mexico, successfully planted throughout tropical parts of the world. In Pakistan it is cultivated in the plains and foothill areas, a fast growing, evergreen shrub or small tree 5 to 20 meter tall and highly productive. This aggressive, tolerant tree grows on a variety of sites, adaptable, growing on steep hill sides with shallow soils and marginal mountains gravelly and sandy soils. It will also grow on saline and acid soils (pH. 6.5 and above) It requires a summer precipitation zone of 500 to 1000 mm/yr. It prefers a moist tropical climate with a



temperature range of 2 to 45 °C at elevation up to 500 m. It reproduces both from seed and by vegetative means, fast growing and highly productive. Yields of 30 m<sup>3</sup>/ha/yr have been recorded for rotations of 10 years. Growth in irrigated plantations has been excellent. The grain is straight with medium fine texture. The color of sapwood is whitish, heartwood is yellow-brown. The specific gravity is 0.56 and a calorific value is 4600 kcal/kg. The wood is strong and resilient. It is used as Fodder, fuel, nitrogen fixing, poles & construction, agricultural implements, apiculture, furniture and soil stabilization.



Dr. Aamer Ahmed, Secretary FW&F Deptt. discussing with  
Shabbeer Ahmad Rana, CCF and Senior Forest Officers



Dr. Muhammad Afzal, Director, PFRI, Faisalabad  
presenting his paper on the topic  
"Dry Land Forestry in Scrub Areas  
through Water Harvesting Techniques"  
on the eve of WORLD WATER DAY hosted by  
Pakistan Engineering Congress on 25.03.2013 at Lahore



## HONOR FOR THE PUNJAB FOREST DEPARTMENT US FOREST SERVICE - SEMINAR AT ARIZONA, USA

Dr. Muhammad Akmal Rahim DFO was invited in a 19 days seminar at Arizona USA, by US Forest Service where he delivered lectures to the participants from 23 countries, on *Watershed Planning & Practices; Layout of the irrigation System of irrigated plantation; Scope of Agroforestry; Raising of Potted & Bed Nurseries and maintenance of Irrigated Channels*. Moreover, the following issues were also discussed in the seminar: Water conflicts among upstream and downstream; Restoration of Watershed area for clean water; Recycling severages and industries water; Management of Grass land/ Range Management; Community participants in the Watershed Management practices; etc. The most prestigious moment for Pakistan was when participants from 23 countries presented and displayed their publications and publicity material but the organizer (US Forest Service) declared the publications and publicity material from Pakistan as the best quality material, especially the posters; Forest Updates etc. The appreciation was further reflected in a very encouraging gesture when some of the participants and organizers held the posters from Pakistan in their hands and posed for a photograph. It is no doubt a great honor for the Punjab Forest



Publicity Material of Punjab Forest Department  
at US Forest Service - Seminar at Arizona



Talk by Dr. M. Akmal Rahim, on WaterShed  
Management Practices, in Pakistan



Dr. Muhammad Akmal Rahim demonstrating soil profile to  
Participants of 23 Countries in field, Arizona, USA

## ATTITUDE AND OBJECTIONS OF THE FARMERS TOWARDS TREE PLANTING

Realizing the importance of growing trees in a tree-deficient country, it becomes necessary to analyse the attitude and practices of farmers towards tree planting and the most effective analysis involves making a note of the usual objections raised by the farmers and then resolving them. The best ways to resolve these issues could be through proper education and training, and most of all by motivating tree farmer through well organized extension and public relationing campaigns. If trees, either in block form or in the form of belts are needed anywhere in the world, arid and semi-arid areas of Pakistan deserve the highest priority. Almost everywhere in the world, the trees on farm and marginal lands are an important source of firewood and timber to supplement the production from state forests. Studies of the economic impact of such tree farming projects provide encouraging evidence that acceptable rates of return can be expected from short rotation fuel wood or pulpwood crops. Tree crops offer the farmer the prospect of diversifying his cropping pattern, making more effective use of marginal farmland significantly improving farm family income. There is obvious scope for rapid bank lending when conditions are favorable. Unfortunately, bulk of the farming community in Pakistan is illiterate and ignorant. The farmer is so grossly entangled in his low yield and consequential financial worries, his feuds and litigations that he seldom gets time to think of other avenue of prosperity. Fully knowing that he needs fuel, wood for implements and construction, fodder trees to feed his cattle in times of fodder scarcity and trees in the form of belts to save his crops from wind damage, he does not show much enthusiasm to plant trees on his land and continues to use large quantities of cow dung which ought to go to his fields to boost up agricultural yields. Efforts made in the past to increase tree growth in the farmlands have not achieved the desired results partly due to the indifference of the farmers but mostly because the follow up operations were lacking. Although when traveling in the country-side one finds trees of almost all ages which have been planted by some progressive farmers yet these are only a few green islands in the vast trees less expanse. *continue...*

By: M.I. Sheikh, Ex. Chief Conservator of Forests

## GLIMPSES OF SPRING TREE PLANTING CAMPAIGN 2013 IN PUNJAB



Khalid Saleem, DCO Bhakkar  
planting a sapling at Police Line, Bhakkar



Dr. Usman Ali, DCO Nankana Sahib,  
planting a sapling



Abdul Qadar Qamar, DPO Bhakkar,  
planting a sapling at Police Line, Bhakkar



A Walk regarding World Forest Day,  
organized by Mianwal Forest Division



A Walk regarding World Forest Day,  
organized by Bahawalpur Forest Division



A Walk regarding World Forest Day,  
organized by Sargodha Forest Division



Saadat Ali Khan, DFO Muzafargarh  
planting a sapling on World Forest Day



Major Gen. (R) Muhammad Saleem, president Social  
Welfare Society, Mughalpur, planting a sapling



Ms. Rubina Shaheen, Principal Govt. Junior Model  
Girls Secondary School, Sargodha planting a sapling