

ICFRE NEWSLETTER



Indian Council of
Forestry Research
and Education

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SIGNIFICANT RESEARCH FINDINGS:

Arid Forest Research Institute, Jodhpur

- Assessment of biological diversity and people perception for developmental plan and awareness generation in different community reserve areas in Jodhpur district”
 - Average density and basal area varied from 68.2 tree ha⁻¹ and 1.75m² ha⁻¹ for trees and 77.5 shrubs ha⁻¹ and 0.27 m² ha⁻¹ for shrubs respectively indicating low vegetation cover. Values of species richness, diversity, dominance and evenness at 2.05-4.33, 0.45-1.21, 0.36-0.70 and 0.41-0.87 for tree species and 0.21- 2.79, 0.13-1.05, 0.41- 0.66 and 0.00-1.10 for shrubs indicates low floral diversity influenced strongly by climatic and edaphic conditions than land use variations, which was shown by positive correlation between annual rainfall and tree species richness, diversity and evenness.

- The local public of the region are keen in participating in community-based conservation and management of wildlife and related natural resources, but conservation awareness and education needs to be streamlined and enhanced further to improve positive attitudes. According to public views and perceptions some important measures in taking cooperation and people participation in protecting, conserving and managing wildlife in Jodhpur district are:

- ▲ Plantation of fodder species and grass seeds sowing in pasturelands/ rangelands for food and shade,
- ▲ Enhancing water availability and erection of boundary walls/ fencing around developed habitats to improve habitat condition,
- ▲ Saving wild life from hunting and feral dogs,
- ▲ Establishment of wildlife hospital and rescue centres, and
- ▲ Providing trainings to the local youths as Paraveterinary for taking care of at village level.

Forest Research Institute, Dehradun

- Preliminary results of soil nutrient pool study in different forest types of Uttarakhand suggests poor soil available N, P

and K in Himalayan Sub-tropical Pine forests. However, in Tropical Moist Deciduous Sal Forest and Tropical Water Swamp Forest of Dehradun Forests of Uttarakhand, available N, P and K was average.

- Insect pests on foliage and seeds were reared in the laboratory. Seeds collected from Chakarata and Sarhan (HP) were found to be 100% infested by chalcid borers. Five species of grasses collected from Chakarata were maintained for rearing winter generation of aphids. Similarly wheat, oats and barley are also planted in pots for conducting experiments on rearing of winter generation of aphids. The work has been done under the project “Cecidology and nursery establishment of *Pistacia integerrima* for exploring possibility of in situ leaf gall production. (Dabur India Pvt Ltd).
- Twenty *Apanteles* specimens were sorted out from collected samples. Five larval samples were collected from FRI Dehradun for the emergence of *Apanteles* spp. from forestry trees including *Pongamia pinnata* and *Populus* spp. Slide preparation and species identification of *Apanteles* spp. are in progress under the “Studies on taxonomy

and host range of larval Parasitoids, *Apanteles* spp. (Hymenoptera: Braconidae) from Uttarakhand and Haryana”.

- About seventy specimens of egg parasitoids (Trichogrammatidae, Scelionidae, Encyrtidae and Mymaridae) have been recovered from collected samples. Twenty slides have been prepared and identified up to species level (*Aphelinoidea* sp., *Chaetostricha* sp., *Oligosita gilvus*, *Oligosita meerutensis*, *Oligosita sanguinea*, *Oligosita novisanguinea*, *Pseudoligosita nephoteticum*, *Lathromeroidea silvarum*). Slide preparation and photography of egg parasitoids are in progress. The work has been done under the project “Studies on diversity and host range of hymenopteran egg parasitoids from northern India (Haryana, Uttar Pradesh and Uttarakhand)”.
- Infested dry bamboo species collected, examined and caged in the Insectary, FRI, Dehradun for observation on experiments on control measure under the project Epidemiology and management of *Chlorophorus annularis* Fab. (Coleoptera: Cerambycidae) –A major borer of cut and dry bamboo.
- A survey was carried out in Mussoorie (Benog WLS & Koti Kimoi), Tehri Garhwal, (Dhanaulty-Danda-Ki-Beli); Kalsi (Timli) & Haridwar (Jhilmil Jheel) Forest Division during November. Butterfly sampling were carried out on 3 transects in 12/C1a Ban oak Forests & 3 transects in 5B/C2 Northern Dry Mixed Deciduous Forests and 61 species were sampled by adding 2 new species to the list of 181 species sampled so far. Database on species of butterflies under different forest types was updated by adding food plants. New

specimens of butterflies captured during the survey were also stretched, preserved and identified. GIS based map of forest types was generated for Jhilmil Jheel Conservation Reserve, Haridwar District.

- A survey was carried out in Benog Wildlife Sanctuary & Woodstock School-Koti-Kimoi forest in Mussoorie Forest Division & Dhanaulty, Tehri Garhwal during November in Ban oak forests. Data was recorded on incidence of a flat headed borer (Buprestidae) on Ban oak tree trunks in Mussoorie. Larvae of 11 species of Lepidoptera were also collected from ban oak trees during the surveys were reared for life history studies, from which two species of moths emerged while the others are in pupal and larval stages.
- Compiled initial growth data of *G. arborea* and *E. officinalis* at Kodapur (Allahabad) and analysis of soil at initial stage of experiment of site Kodapur (Allahabad) is in progress. Maintenance and monitoring of plantation of *G. arborea* and *E. officinalis* at the sites Fatehpur (Pelio), Dhaluwala Majbata (Haridwar) and Kodapur (Allahabad) under the project “Development of *Gmelina arborea* and *Embllica officinalis* based agroforestry models on degraded lands in Uttarakhand and Uttar Pradesh” is continued.
- Eight accessions of wild population of Paris polyphylla collected from Arunachal Pradesh was characterized for their total saponins contents determined in their rhizomes.
- Two populations of *Quercus semicarpifolia* grown in the forests of Chaurangikhal and Raditop, Uttarkashi were characterized for the first time for total phenolic contents determined in their leaves.

WORKSHOPS/SEMINARS/MEETINGS:

S.No.	Topic	Duration	Beneficiaries
Forest Research Institute, Dehradun			
1.	Agroforestry: Opportunities and Challenges	16 November 2018	50 participants including Head of Divisions, Officers, Scientists of FRI and Farmers, NGOs and other Institutes of Dehradun



Institute of Forest Genetics and Tree Breeding, Coimbatore

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| 2. | Agroforestry Research and Development – A Recap and Roadmap for future | 28 November 2018 | Stakeholders from research organizations like TNAU, KAU, KFRI, ICAR institutes, officials from SFDs, agroforesters, wood based industries, and NGOs |
| 3. | Research Scholar Monthly seminar | 12 November 2018 | Research scholars of IFGTB |



Seminar on Agroforestry Research and Development – A Recap and Roadmap for future



Research Scholar Monthly seminar

Himalayan Forest Research Institute, Shimla

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| 4. | Agroforestry Research and Development – A Recap and Roadmap for future | 28 November 2018 | Stakeholders from research organizations like TNAU, KAU, KFRI, ICAR institutes, officials from SFDs, agroforesters, wood based industries, and NGOs |
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TRAINING PROGRAMMES:

S.No.	Topic	Duration	Beneficiaries
Forest Research Institute, Dehradun			
1.	Value addition and Marketing of NTFPs (Plant origin) : Bamboo craft	13 November 2018 - 18 January 2019	-
2.	Bamboo propagation and nursery management	13-15 November 2018	Eco Task Force
3.	Silviculture & Forestry	26-30 November 2018	35 personnels Eco - Task Force

Institute of Forest Genetics and Tree Breeding, Coimbatore

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| 4. | Popularizing Trees Outside Forest | 14-16 November 2018 | KVK scientists from all over Tamil Nadu |
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5.	Forest Genetic Resource Management	26-30 November 2018	IFS Officers from different states
Institute of Wood Science and Technology, Bengaluru			
6.	Integrated pest & disease management of sandal wood plantations	20 November 2018	Plantation owners and RFOs
7.	Filed Identification of important timbers	12 - 16 November 2018	Naval Dockyard, Mumbai and Visakhapatnam Kerala Forest Department and Karnataka Forest Department
8.	Bamboo Propagation and Management	24 September - 9 November 2018	Unemployed youth, students and NGO's
Rain Forest Research Institute, Jorhat			
9.	Bamboo handcraft, Value addition & Bamboo preservation techniques	25 October - 7 November 2018	Entrepreneurs from Jorhat and Sivasagar districts of Assam
10.	Bamboo Resource Development for addressing livelihood concerns of communities	12 - 16 November 2018	IFS officers from 17 States of India
11.	Skill Development on Bamboo Handicrafts for Promotion of Community Enterprise	12 - 16 November 2018	-
<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;">  </div> <div style="width: 30%;">  </div> </div>			
<p>Training on "Skill Development on Bamboo Handicrafts for Promotion of Community Enterprise" at FRC-LE, Agartala</p>			
12.	Processing, Preservation & Artisan Work for construction of Bamboo House and related Application	16 , 17 and 19 November 2018	-

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| 13. | Natural Resource Management, Agro-forestry, solar energy, improved chullah etc. under REDD+ pilot | 30 November 2018 | - |
| 14. | Forestry in addressing livelihood issues of people of North Eastern States | 28 to 30 November 2018 | Trainees of Govt. employees, NGO personnel, JFMC Members, Students in educational institutions, Panchayat members, Social activities, Academia, Media persons etc. from Meghalaya |

Himalayan Forest Research Institute, Shimla

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| 15. | Cultivation of Important Temperate Medicinal Plants: an option for Diversification and Augmentation of Rural Income | 19 to 21 November 2018 | Ward members, Mahila Mandals, Eco-Task Force, Gardeners from ITBP, Teachers, NGO's, Media Persons, Panchayat Secretary and officials of BDO Office |
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Training on Cultivation of Important Temperate Medicinal Plants: an option for Diversification and Augmentation of Rural Income

Institute of Forest Productivity, Ranchi

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| 16. | Commercial cultivation of medicinal plants with special reference to Ashwagandha (Withania somnifera)'' | 16 November 2018 | 28 farmers of Darjeeling and adjoining villages participated in the programme |
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PRAKRITI PROGRAMMES:

- As per MOU between ICFRE & Kendriya Vidhyalaya Sangathan and ICFRE & Navodaya Vidyalaya Samiti, HFRI, Shimla under the programme "PRAKRITI" with the objectives to promote awareness about forests and environment, to stimulate interest among the students of KV's in maintaining a balanced

environment and for acquiring skills that reflect care and protection towards forests, environment and society lecture on "Role of fungi in Forest Ecosystem" was organized at Kendriya Vidhayala Jakhoo Hill, Shimla on 20 November 2018.

VISIT OF DIGNITARIES:

- Sh. Siddhanta Das, Director General of Forests and Special Secretary, MoEF&CC, New Delhi visited FRI, Dehradun on 20 November 2018.
- Honourable Chief Minister of Tripura, Sri Biplab Kumar Deb visited FRC-LE, Agartala on 15 November 2018.
- Sh. Umamaheshwaran, Scientific Secretary, ISRO visited Forest research Institute on 16 November 2018.



Sh. Siddhanta Das, Director General of Forests and Special Secretary, MoEF&CC,

DIRECTOR GENERAL VISIT:

- Dr. Suresh Gairola, IFS, Director General, ICFRE visited FRC-LE, Agartala on 22 November 2018.



Dr. Suresh Gairola, IFS, Director General, ICFRE visited FRC-LE, Agartala

EXHIBITION/MELA:

Institute	Participate/ Organized	Duration	Place
TFRI, Jabalpur	Exhibition	21-23 November 2018	Directorate of weed research, Jabalpur
	10 th Agro vision Mela	23-26 November 2018	Nagpur

POPULARIZING FORESTRY THROUGH DOORDARSHAN:

Programme	Channel	Date
Forest Research Institute, Dehradun		
Baans ki kheti	DD Kisan	28 November 2018
Is mausam me Baans ki kheti se sambandhit taiyaariyan	DD Kisan	29 November 2018

HR NEWS:

Transfer
 Dr. Ranjeet Singh, Sci.-G From HFRI, Shimla To ICFRE, HQ

Retirement
 Name of Officer Date of Retirement
 Dr. Pramod K. Pandey, Sci.-F, FRI, Dehradun 30 November 2018

Patron:
 Dr. Suresh Gairola, Director General

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