



Agricultural Sciences Forum of Kodagu

Regd., No. SFC/28/99-2000 College of Forestry, Ponnampet 571216,
Kodagu, Karnataka

NEWS LETTER

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From the Editors desk..... 

The A. S. F. K. is completing yet another successful year, moving forward with a deluge of activities. Since from the beginning of the year 2020, the entire world is suffering due to the Covid 19 pandemic, the disease has drastically changed our daily routines. Each one of us had to get changed to the new situation. As a result no more outreach activities could be taken up by ASFK since March 2020. In spite of this major barrier for successful conduct of the activities, the EC was able to prepare DPR and enrolled members for formation of Kodagu Buzzing Bee Cluster an ambitious project of ASFK to be implemented in association with College of Forestry, Ponnampet with financial assistance from Khadi and Village Industries Commission, Govt. of India. An article on bee forage resources of Kodagu district had been given in this issue as part of creation of awareness on bee forage plants which is essential for successful beekeeping.

Due to the Covid-19 many of the youths have returned to their villages and developing interest in farm and farm based activities. At this juncture it is the prime duty of the developmental departments and organisations like ASFK, to cater to their needs, provide them with required technical know how to make the farming activity as a profitable venture, so that all them will remain in the farming activity giving a new fillip to the farm productivity. Hence, the ASFK is planning for a series of outreach activities in the days to come.

The EC wishes all its members a happier, healthier and safer life filled with prosperity

With warm regards

R. N. Kencharaddi
Editor

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EXTRACTS OF ANNUAL REPORT OF ASFK FOR THE YEAR 2019-20

The first combined EC meeting was held on 23rd July 2019 at ASFK office, college of forestry, Ponnampet. The outgoing EC lead by President, Mr. Babu K.R., officially handed over the responsibilities of the forum to the newly elected body. It was decided to conduct all future programs of ASFK with sponsorships only and not to utilize the ASFK fund. Discussions were held regarding clonal propagation programme, coffee raking machine, renewal of long pending ASFK registration, managing of ASFK website and membership drive for ASFK.

The 2nd EC meeting was held on 30th October 2019 at ASFK office, college of forestry, Ponnampet. Mr Babu K.R., past president gave a detailed presentation about the KVIC proposal for setting up a honey cluster project in Kodagu through ASFK. The EC gave in principle approval to go ahead with the project proposal after looking into the ASFK by-laws before getting into profit making ventures. Other topics like renewal of ASFK registration and Foundation Day celebration was discussed.

The 3rd EC meeting was held on 28th November 2019 at ASFK office, CoF, Ponnampet. Mr Babu K.R., past president appraised all the EC members about the PPR prepared for the honey project and it was decided to present the entire project details during the Foundation Day.

The Foundation Day of ASFK was held on 3rd December 2019 at Spice Rack Hall, Gonikoppal with an active participation of about 60 members. Mr C..P Appanna, Rtd General Manager, NABARD and member of ASFK, gave a detailed presentation about the proposed Kodagu Buzzing Bee Honey Cluster project to be taken up in association with KVIC and ASFK as Implementing Agency in the project. It was followed by a technical session from the event sponsors T Stanes and India Potash Ltd.

The 4th EC meeting was held on 14th February 2020 at Kodava Cultural Association Hall, Siddapura. Dr C.G. Kushalappa, Dean, CoF, Ponnampet gave a detailed



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presentation of the Sustainable Landscapes Project sponsored by Nedcommodities India with CoF, Ponnampet and requested ASFK to be a project partners. The project implementation will be from 2020 through 2022. The project aims to engage a minimum of 500 farmers and 45 students with an objective of planting about 60000 native tree varieties in the identified areas. The role of ASFK will be in identification of beneficiary, conducting training programmes for the identified farmers and transfer of funds to the farmers. Mr. K.M. Nanaya, one of the Directors of ASFK representing Virajpet taluk was requested to coordinate the project on behalf of ASFK.

A detailed discussion was held on KBBHC project status and the EC decided to go ahead with the beneficiary identification process for the project through ASFK members only. It was also decided to host the KBBHC at CoF campus at Ponnampet and enter into a MoU with the UAHS, Shivamogga for the required land on lease basis for 15 years.

The 5th EC meeting was held on 29th May 2020 at ASFK office, CoF, Ponnampet. Discussions were held regarding Nedcommodities and KBBHC project. It was decided to sign an MOU with Nedcommodities for the implementation of Sustainable Landscape project.

The 6th EC meeting was held on 10th July 2020 at Lions Seva Bhavan, Pollibetta. Detailed discussions were held about coffee raking machine, Nedcommodities and honey cluster projects. It was decided to get the 30 coffee raking machines lying at College of Horticulture, Hiriyyur and distribute among the farmers. It was also decided to write a letter to the technical team at Hiriyyur asking for necessary modifications in the machine.

The 7th EC meeting was held on 7th October 2020 at Riverside Resort, near Siddapura. Detailed discussions were held about project status of Nedcommodities and KBBHC. It was decided to host the KBBHC at CoF, Ponnampet and was suggested to put all required efforts to get approval of the Board of Directors, UAHS, Shivamoga, in this regard. As per the requirement of KVIC, a Special Purpose Vehicle (SPV) under the name KBBHC for the implementation of the project was formed and was to be registered under the



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Karnataka Societies Act was discussed in detail. Dr. A.C. Ganapathy, past president and a permanent advisor to ASFK was proposed to the post of President/Chairman, Mr Shyam Aiyappa as Secretary and Mr. Babu K.R. as treasurer for the proposed KBBHC SPV. It was also decided to conduct an EGM to get approval for the establishment of KBBHC SPV and incorporate required amendments to the by-laws of ASFK.

The 8th EC meeting was held on 17th November 2020 at Lions Seva Bhavan, Pollibetta. The draft by-laws prepared for the SPV and passed through legal opinion from Adv. K.G. Uthappa was presented by Mr Shyam Aiyappa and was approved by the EC. The draft MoU between ASFK and CoF, Ponnampet was presented by Dr G.M. Devagiri and was approved through discussion. By-law amendments/additions were also presented by the secretary Dr. Bhavishyakumar and was approved through deliberations.

On 24th October 2019 a training programme under national honey mission was conducted by ASFK in collaboration with KVIC and CoF, Ponnampet CoF campus. The programme was attended by about 80 trainees from all parts of Kodagu. Dr Kencharaddi was the resource person for the training programme.

The ASFK was not in a position to conduct any other training programmes/seminars/workshops because of current covid-19 pandemic situation.



Beekeeping Training Sponsored by KVIC



Executive Committee Meeting



BEE FORAGE RESOURCES OF EVERGREEN FOREST ECOSYSTEM OF KODAGU

C. N. Nidhi and R. N. Kencharaddi

The bee forage resources are essential for sustainable beekeeping in a region as honeybees get fulfilled their dietary requirements from the nectar and pollen produced by the plants. For initiating any conservation and augmentation measures on bee forage resource it is essential to know the available sources, their flowering period and the source they are providing to the bees. Hence, a study was undertaken at evergreen forest ecosystem of Kodagu to record different types of bee forage plant resources and also their flowering period. The bee foraging activity of pollen and nectar collection was observed in many of the herbs, shrubs, trees and climbers present in the evergreen forest ecosystem. Apart from Indian bees (*Apis cerana indica* Fab- Tuduve jenu), there was also visitation of rock bees (*A. dorsata* F.- Hejjenu), little bees (*A. florea* Fab.) and stingless bees (*Tetragonula irridipennis* Smith mooli jenu), on the forage plants. There were 80 bee forage plant species flowering throughout the seasons. Monsoon season recorded 18 types of forage resources, of which three herbs, nine trees and a climber were in flowering. In the summer season, out of the 19 types of forages available, fifteen



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comprised of trees and four were shrubs. A total of 22 plants species were in bloom during the winter season, comprising of 20 trees, an herb and a climber. The evergreen forest ecosystem recorded 21 species that were flowering and provided a constant food source for the honeybees throughout the year. Prominent among them were herbs (12 species) followed by trees (5 species), shrubs (3 species) and a climber. Categorization of bee forage species of the evergreen ecosystem according to their families indicated plants belonging to 44 families. A maximum number of them were from the families of Asteraceae, Acanthaceae, and Rutaceae (5 species each), followed by Anacardiaceae, Lamiaceae, Malvaceae, Moraceae (4 species each) while families of Sapotaceae and Arecaceae had three species each. The details of the bee forage resources recorded in evergreen forest ecosystem of Kodagu district along with their common names scientific names, flowering period , the source provided to the bees by them have been presented in Table 1 .



Table 1. Details of bee forage plant resources recorded at evergreen forest ecosystem

Sl.No.	Common name/Local name	Scientific name	Family	Flowering Period	Life form	Source
1	Bitter leaf	<i>Vernonia albicans</i>	Asteraceae	Aug-Dec	Herb	NP
2	Nari bikki/Rudraksham	<i>Elaeocarpus munroii</i>	Elaeocarpaceae	Sept-April	Tree	N
3	Dhobi tree/ Belloti	<i>Mussaenda frondosa</i>	Rubiaceae	Sept-Dec	Tree	N
4	Arrow root	<i>Tacca pinnatifida</i>	Dioscoreaceae	Sept-Dec	Shrub	N
5	Thumba	<i>Leucas aspera</i>	Lamiaceae	Sept-Mar	Herb	NP
6	Neeli mara/Bishop wood	<i>Bischofia javanica</i>	Phyllanthaceae	Sept-Nov	Tree	N
7	Cucumber	<i>Cucumis sativus</i>	Cucurbitaceae	Sept-Nov	Climber	NP
8	Wild leadwort/Chitra moola	<i>Plumbago zeylanica</i>	Plumbaginaceae	Sept-Nov	Herb	N
9	Chinese chaste tree	<i>Vitex negundo</i>	Lamiaceae	Sept-Nov	Tree	NP
10	Soapberry	<i>Sapindus emarginatus</i>	Sapindaceae	Oct-Dec	Tree	N
11	Salem adike	<i>Veitchia racina</i>	Arecaceae	Oct-Dec	Tree	NP
12	Fire plant/Painted Euphorbia	<i>Euphorbia heterophylla</i>	Euphorbiaceae	Oct-Feb	Shrub	NP
13	Gurugae	<i>Strobilanthus callosus</i>	Acanthaceae	Oct-Jan	Shrub	NP
14	Kaadseege	<i>Acacia pennata</i>	Mimosaceae	Oct-Jan	Shrub	NP
15	Citrus	<i>Citrus sinensis</i>	Rutaceae	Oct-Nov	Tree	N
16	Orange berry/Gurode	<i>Glycomis pentaphylla</i>	Rutaceae	Oct-Nov	Shrub	N
17	Sapota	<i>Manilkara zapota</i>	Sapotaceae	Oct-Nov/Feb-Mar	Tree	NP



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18	Avocado/Bonne pann mara	<i>Persea americana</i>	Lauraceae	Oct-Nov /Feb-Mar	Tree	N
19	Chattutva mara/Kambili	<i>Eurodia lami-ankenda</i>	Rutaceae	Nov-Dec	Herb	N
20	Mast wood/Sinhala	<i>Calophyllum inophyllum</i>	Calophyllaceae	Nov-Jan	Herb	NP
21	Madduthoppu	<i>Justicia wayandensis</i>	Acanthaceae	Nov-Mar	Herb	N
22	Moon flower/Morning glory	<i>Ipomea eriocarpa</i>	Convolvulaceae	Dec-Jan	Tree	N
23	Bhootali/Sone mavu	<i>Acronychia pedunculata</i>	Rutaceae	Dec-Feb	Tree	NP
24	Gulimaavu	<i>Perseamacrantha</i>	Lauraceae	Dec-Mar	Tree	N
25	Jack fruit/Halasu	<i>Artocarpus heterophyllus</i>	Moraceae	Dec-Mar	Tree	P
26	Hebbalasu	<i>Aritocarpus hirsutus</i>	Moraceae	Dec-Mar	Tree	P
27	Deccan olive/koomo mara	<i>Eleocarpus tuberculatus</i>	Elaeocarpaceae	Jan -April	Tree	N
28	Malabar ironwood/Irpu/Kiralubogi	<i>Hopea parviflora</i>	Dipterocarpaceae	Jan- April	Tree	N
29	White dhup/ Dammar	<i>Vateria indica</i>	Dipterocarpaceae	Jan- Mar	Tree	NP
30	Mango/Mavu	<i>Mangifera indica</i>	Anacardiaceae	Jan-Mar	Tree	N
31	Kallutadale/Hariyage	<i>Chionanthus malabaricus</i>	Oleaceae	Jan-Mar	Tree	N
32	Black dammer	<i>Canarium strictum</i>	Burseraceae	Feb-April	Tree	NP
33	Kerolchi mara	<i>Celtis tetrandra</i>	Ulmaceae	Feb-April	Tree	N
34	Indian gutta percha/Pali mara	<i>Palaquium ellipticum</i>	Sapotaceae	Feb-July	Tree	NP
35	New Guinea rose wood/Vaale mara	<i>Dipterocarpus indicus</i>	Dipterocarpaceae	Feb-July	Tree	N
36	White cedar / Bili devadaaru	<i>Dysoxylum malabaricum</i>	Meliaceae	Feb-June	Tree	N



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37	Bhoonga mara/Red silk cotton	<i>Bombax malabaricum</i>	Malvaceae	Feb-Mar	Tree	NP
38	Kora/Heyneatrjuga	<i>Trichilia comaroides</i>	Meliaceae	Feb-Mar	Tree	NP
39	Indian oak/Andimurugala	<i>Carallia brachiata</i>	Rhizophoraceae	Feb-Oct	Shrub	N
40	Kabba mara / Kavalu mara	<i>Careya arborea</i>	Lecythidaceae	Feb-April	Tree	NP
41	Spotted ladies thumb	<i>Polygonum persicaria</i>	Polygonaceae	Mar -May	Tree	N
42	White pear/Slate mathi	<i>Apodytesdimidiata</i>	Icacinaceae	Mar-April	Tree	NP
43	Hog plum / Ambate	<i>Spondias pinnata</i>	Anacardiaceae	Mar-May	Tree	N
44	Doddanerele	<i>Syzygium hemisphericum</i>	Myrtaceae	Mar-May	Shrub	NP
45	Malabar Plum/Java plum/Nerale	<i>Syzygium cumini</i>	Myrtaceae	Mar-May	Shrub	NP
46	Lemon	<i>Citrus limon</i>	Rutaceae	April	Tree	NP
47	Datura	<i>Datura sp.</i>	Solanaceae	April-Dec	Tree	P
48	Lakooch / Vaate	<i>Artocarpus lakoocha</i>	Moraceae	April-June	Tree	P
49	Gaub tree/Kunchiganara	<i>Diospyros buxifolia</i>	Ebenaceae	April-Mar	Tree	N
50	Bethu mara/kanni mara	<i>Schefflera wallichiana</i>	Araliaceae	April-May	Tree	N
51	Doddaholegare/Black varnish tree	<i>Holigarna ferruginea</i>	Anacardiaceae	April-May	Tree	NP
52	Black varnish tree/Holegeru	<i>Holigarna arnottiana</i>	Anacardiaceae	April-May	Tree	NP
53	Kari mara/Ceylon ebony	<i>Diospyros ebenum</i>	Ebenaceae	April-May	Shrub	N
54	Star apple/Hale mara	<i>Chrysophyllum roxburgii</i>	Sapotaceae	April-Nov	Tree	NP
55	Indian snakeroot	<i>Rauvolfia serpentina</i>	Apocynaceae	April-Oct	Tree	N
56	Wild jujuba/Bili mulluhannu	<i>Ziziphus rugosa</i>	Cannabinaeaceae	April-Oct	Tree	N
57	Tamarind	<i>Tamarindus indica</i>	Caesalpiniaeaceae	April-May	Tree	N



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58	Iron wood tree/Udthale mara	<i>Memecylon umbellatum</i>	Melastomataceae	April-May	Tree	P
59	Arecanut / Adake	<i>Areca catechu</i>	Arecaceae	Jun-Dec	Tree	P
60	Common wire weed	<i>Sida acuta</i>	Malvaceae	Throughout the year	Herb	NP
61	Water willow	<i>Justicia simplex</i>	Acanthaceae	Throughout the year	Herb	NP
62	African tulip tree/Nandhi flame	<i>Spathodea campanulata</i>	Bignoniaceae	Throughout the year	Tree	NP
63	10' clock plant/Moss rose purslane	<i>Portulaca grandiflora</i>	Portulacaceae	Throughout the year	Herb	NP
64	Banana	<i>Musa sp.</i>	Musaceae	Throughout the year	Shrub	N
65	Shame plant/Touch me not	<i>Mimosa pudica</i>	Mimosaceae	Throughout the year	Herb	NP
66	Coconut	<i>Cocos nucifera</i>	Arecaceae	Throughout the year	Tree	P
67	African basil / Rama Tulsi	<i>Ocimum gratissimum</i>	Lamiaceae	Throughout the year	Shrub	NP
68	Chayote	<i>Sechium edule</i>	Combrataceae	Throughout the year	Climber	P
69	Paddy's lucerne/Mahabala	<i>Sida rhombifolia</i>	Malvaceae	Throughout the year	Herb	NP
70	Coatbuttons/Tridax daisy	<i>Tridax procumbens</i>	Asteraceae	Throughout the year	Herb	N
71	Spanish needles	<i>Bidens bipinnata</i>	Asteraceae	Throughout the year	Herb	NP



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72	Chrysanthus/Mums/ Sevantige	<i>Chrysanthemum indicum</i>	Asteraceae	Throughout the year	Herb	P
73	Climbing day flower	<i>Commelina diffusa</i>	Commelinaceae	Throughout the year	Herb	NP
74	White angels trumpet	<i>Brugmensia arborea</i>	Solanaceae	Throughout the year	Shrub	N
75	Holy Basil/Kama kasthuri	<i>Ocimum basilicum</i>	Lamiaceae	Throughout the year	Herb	NP
76	Cereca rubber	<i>Manihot carthaginensis</i> <i>sub.sp.glaziovii</i>	Euphorbiaceae	Throughout the year	Tree	NP
77	Brazilian plume flower	<i>Justicia carnea</i>	Acanthaceae	Throughout the year	Herb	N
78	Camel's foot tree	<i>Bauhinia purpurea</i>	Caesalpinaceae	Throughout the year	Tree	P
79	Node weed	<i>Synedrella nodiflora</i>	Asteraceae	Throughout the year	Herb	NP
80	Fig tree/Althi pann mara	<i>Ficus glomerata</i>	Moraceae	Throughout the year	Tree	N

Note: P-Pollen, N-Nectar, NP-Both Nectar and Pollen



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OBITUARY

Mr. Nellira M. Poonacha, Life member and Past President
Mr. Ballachanda C. Nanjappa, Life member and Advisor
Mr. Kambiranda A. Nanjappa, Life member
Mr. C. T. Subbaiah, Life member

BOOK POST

To,

Mr/Mrs/Dr
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VISION OF THE FORUM

To be a leading organization of excellence and to serve the farming community of the district by pooling the knowledge and experience of graduates in agriculture and allied sciences (like, horticulture, marketing, fisheries, animal husbandry, dairy technology, sericulture and forestry) who hail from Kodagu and live across the country and world.



AGRICULTURAL SCIENCES FORUM OF KODAGU



College of Forestry,
Ponnampet 571216,
Kodagu, Karnataka

Email: asfkcoorg@gmail.com

