

Bio-Factor Inspired Contemporary Agriculture-Horticulture with Innovative Researches and Ecosystem Transformation for Healthy Life Plausible Governance

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Abstract

While developing countries focused their endeavors on development of livelihood and sustainable food security, developed countries diverted their attention towards development of feel good and wellness. It is found that lot of satisfactory progresses had been made in agriculture and horticulture and forestry land uses as per land capability classes. This scientific persuasion brought considerable improvement in situations and with development of knowledge many innovative developments and constraints also emerged. This study inspired by bio factors "feel good and wellness" brought contemporary transformations of forestry land use in to Forestry- Horticulture, least liable to damage by climatic aberrations. Control of the Governance of countries remains its fast adaptations. This researchers' theme, "Food is Medicine", recommended intake of suitable fruits and nuts as mini snack after around 3h of meal of any kind of food menus, to regulate acidity in human animal and fish bio systems. These fruits and nuts needs' will get easily accomplished by the innovative transformation, "Forestry Horticulture", which will support accomplish fulfillment of livelihood need and food securities in countries world over. With this transformation nutrient and water management in forestry sector will naturally get revamped for building still better vegetation cover, raising efficiency of fruits and nuts bearing through integrated fostering of wild as well as honey bee pollinators. The bio-factor feel good and wellness will get accomplished under both developing as well as developing countries enable bringing development of healthy stress free life of all gentry facilitating plausible stable governances.

Keywords: Agriculture, Horticulture and Forestry Land Uses, Bio Factors, Climate Change, Goods and Services from Ecosystems, Honey Production and Livelihood and Sustainable Food Security.

Introduction

Food is always standing third priority need in the long list of air, water, food, sanitation, education, safety, security and egoistic and self-satisfaction leading to preaching [1, 2]. In the domain of natural resources such global areas are fixed for extracting different types of foods and nutrition. In the worldwide scenarios different types of land uses were made as per land capability classes, with slight variations in degree of land limitations involved. First quality designated as class I land extending with decreasing class to six or class seven lands with severe limitation of flexible land use and restricting to one suitable land use. These land capability classes enhanced values of land and the high quality lands became extremely costly. The broad groups of land uses became agriculture, horticulture, forestry and special function fixed land use. This

land use classification made in the past produced commendable productions as per limitations and availability of soil types, and water availability situations rain fed or irrigated agriculture. Many advancements in agricultural researches brought plentiful food production by enhancing productivities, eliminating crop yield losses and same time eliminating strenuous tasks [3,4,5], innovative development of manures [6] and non-strenuous conservation practices [7, 8], reducing land use pressure and arresting land degradation and desertification under many severe or intensive land uses beyond land capability classes. Nevertheless, excessive pressure lead to anthropogenic greenhouse gases (GHGs) emissions, which has been causing severe problem of climate change, coming to realization of frequent occurrence of extreme events of heat, cold waves and sea hurricanes.

Countries, all over world, specified to bring the low class lands under forestry land uses. The forestry eco system as in case of other ecosystems had been envisaged to produce ecosystems goods and services, which became index in assessing efficiency of goods and services created by the land uses developing in ecosystems with time. A global thinking emerged to bring compensating short fall in forestry land uses by adopting agro- forestry to desirably proportion of 33 % of the geographical areas of countries. Intensive land use pressure has been causing land degradation and desertification and UN have been highly concerned with developing arresting measures and mode of its operations which involved different views. Some land degradation concerned thinkers favored people center decision. Objective of present study was on capitalizing bio inspired land use for producing goods and services from eco systems which bring quick feel good and wellness making peoples life least strenuous, stress free and healthy.

Material and Methods

The bio factors

Feel good and wellness is a bio factor envisaged in both developed and developing countries. This bio factor is charter of healthy and comfortable life of people. A drop of happiness can cause 1. Smile, 2 Optimism, 3. Self-worth, 4 Reduces depression and 6 Improves health. Therefore, with time inclination is tilting towards food, drinks and nutrition, which bring instant and sustainable feel good to the country gentry. Realization is coming on ways how to maintain such feel goods and wellness, which produces many sustainable benefits.

Recently established bio factor is on follow up of least resistance strenuous practices. Therefore, in order to convince any adoption of practices for coping with climate change, all agricultural practices need to be set to become least strenuous to the adopters. The innovative agricultural practices needed development for this purpose.

Further still more innovative and practically feasible approach for facilitating bio factor is transformation of ecosystems of forestry, which is least susceptible for climate change, remain fully under control of governments, remaining free of worry of adaptation or not, by farmers', is transformation of Forestry ecosystem in Forestry- Horticulture [8, 9], which will produce fruits and nuts needed for people enabling acquire quick feel good and wellness. This transformation in the ecosystem will bring health and wealth and business and trades with plentiful employment opportunities.

Least strenuous path practices.

Studies have established the agricultural practices which involve least strain on human are quickly adopted. Therefore, some innovative practices were developed to get adopted in agriculture productivity to an unimaginable level. Bases on innovative management of nitrogen cycle Eco –zero weeding, which produces multiple benefits is the foremost [3, 4, 5] in the series of practices.

Most effective management of organic manure to enhance efficiency of recommended doses of macro nutrients in agriculture

Innovative bio decomposer boosted aerobically composted crop residues in different layers of cow dung and soil based on principle of sulphur cycle [6] reducing time of decomposition supplementing on fourth of the RDF N becomes optimizing use efficiency of

N and other micro nutrients N agriculture.

Most suitable seedbed and planting bed formations.

Raised broad bed and furrow (RBBF) had been introduced and popularized through foreign aids in Asian countries namely Bangladesh, India, Indonesia, Nepal and Pakistan in 1970s and again revamped in India, especially in Indo Gangetic zone for production of wheat. But it could not get sustainably adopted due to some inherent limitations of sizing, bed forming machineries, seeding and slumping of sides of raised beds and tillage for weeding etc. These limitations have been overcome by innovative researches [7]. The bio factor of least strenuous path practices have been applied to get it easily adopted.

Adoption of principle of Sorptivity for preparation of seed material of main crop and eco crop for fast emergence and optimum crop stand establishment

Optimum crop stand establishment is a challenge in agriculture. Direct seeded crops suffer setbacks and to overcome this problem nursery raising and planting of widely spaced crops is followed, For the closely spaced crops the challenge is overcome by applying principle of sorptivity in which seeds are soaked for 8 -10h for cereals and 6-7 h for pulses in normal irrigation water. The soaked seed is kept in heap under the shed and covered with gunny bag cloth. The soaked seeds starts germinating which is sown by broad casting or by seed drills suitably adjusted for size of swollen seeds. The eco zero weeding eco establishing crop emerges faster than weed and suppresses it. The main crop emergence fastened by a week's time, which have significant enhancement in crop yield. The practice had not been widely adopted in the past, but it is least strenuous path practice will get easily adopted by farmers.

Super micro irrigation

Super micro irrigation is highly suitable for initial light irrigation by sprinkler irrigation. During high water demand crop is irrigated through over flooding of furrows. Thus, there is saving of water and due to eco –zero weeding enhancement in crop yield is tremendous, surpassing drip irrigation. Water use efficiency is increased. This needs adoption with almost no infrastructure.

Data Collections

First author had been conducting studies on impact of climate change and its ameliorative measures and their adaptations. In December 2019 an International Conference, “35th IDC Foundation National Conference on climate change and agriculture: Impact, Resilience and Adaptations for sustainable food security. Was organized which produced plentiful insights of factors involvement in food security. Several innovative studies were conducted to devise measures cope up with climate change. Therefore, using such information this composite article was developed.

Results

Importance of Bio Factors

The bio factors inspire and compel any individual acquire feel good and wellness. In order to maintain such homeostatic situation one likes to follow path of least resistance and non-strenuous paths. It compels development of attitude to adapt an easy path involving practices. This fact has been established by study [10]. Therefore, it becomes necessary for scientists to devise least strenuous path involving practices facilitating adoption of technology

and practices in agriculture.

Technologies that involve least strenuous paths

In section 2.2 least stress involving the most effective established practice were enumerated. These are shown in different groups in contemporary agriculture. There involves lot of government endeavors and facilitations which may be given under different nomenclatures visa subsidy, monetary or machinery assistance in or-

der to maintain livelihood sufficiency, which remains insufficient. Innovative most appropriate technologies established in different earlier studies [3-8] need facilitation in terms of imparting knowledge and training, monetary and machine facilitation to enhance productivity to buildup sufficiency of livelihoods. These facts specify what Governance should endeavor in maintaining livelihood and sustainable food security under changing climate.

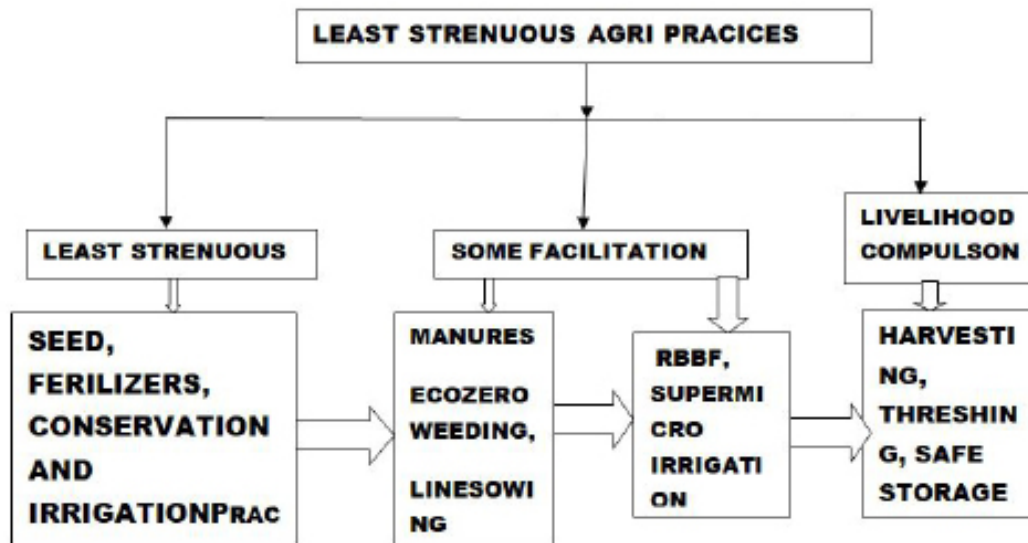


Figure 1: Sequential practices involving strenuous paths in contemporary agriculture Maintaining feel good and wellness after fulfilling livelihood and food security needs

In both the developed countries as well as developing countries after getting sufficiency in livelihood there exist developing concern acquiring feel good and wellness. It is found that there exist continuing search of protein, vitamins and minerals, which subjected to lot of variation in availability fulfillment of need and ultimate benefit in human body. Under all varying situations the process of digestion of food is same and depending on food quality and sufficiency there occurs acidity in stomach which dissolves food by hydro-chemical process, which moves to small intestine to get absorbed by glands making separation of liquid in form fit for filtration. The acidity of urine is a known indicator of character of health and wellness. High acidity in alimentary canal gives different reflection of digestibility and in lower abdomen acidity causes variety and severity of toxicity and toxic gases. Ayurveda practitioners classify the impact acidity in gas form as Vaat, as Cough in lung region and Pitta in lower abdomen region for any kind of ailments. These practitioners flatly recommend green vegetables,

salads fruits and nuts without any specific distinction.

Diurnal variation of acidity of urine

In development of any lack of feel good and wellness, there occurs acidity. As any medicine is taken orally, taking spoonful antacids eradicates acidity and brings instant feel good and wellness. This fact was established by study [10] in instant relieving of frequent urination demanding emergency hospitalization. The acidity in a specific range of pH 5-8 is good for maintaining feel good and wellness. Here lower than 5 acidity may cause stone formation in gallbladder and polycystic ovary disease (PCOD) and more than 8 may cause stone formation in pancreas, which require surgical removal [11]. Thus although there may be noticeable sickness, there may occur accumulation of adverse impact to cause problems in later years. Therefore, it implies that keeping bio factor feel good and wellness, regulation of pH in urine is a new way of life style, which will get clear in subsequent paragraph of the study.

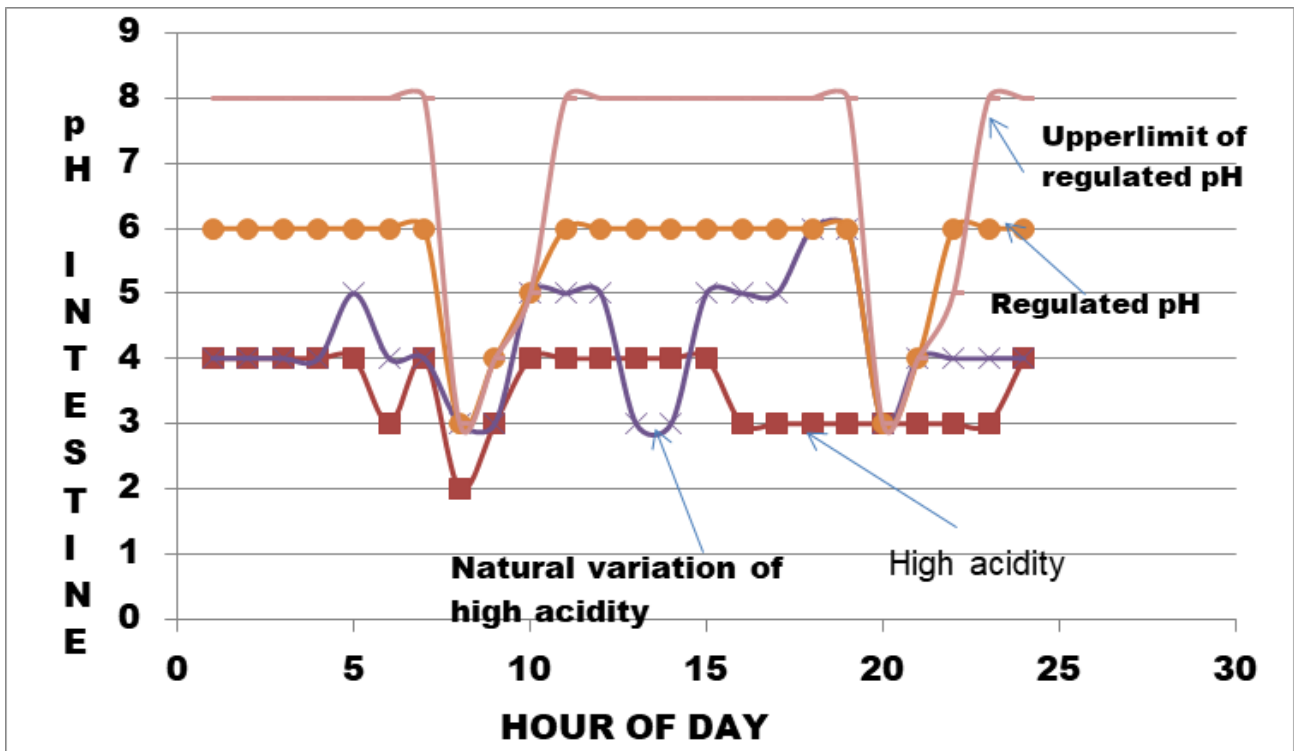


Figure 2: Diurnal variation of planned food intake based manoeuvre of acidity for facilitating parallel bio system working for prosperity as affected by food intake pattern. [Note graph from bottom up 1. rectangular meal, 2- Square meal, 3 Meal with food of pH 6 and 4, Food maneuvered for pH 8.

Mini snack for regulation of acidity of urine for overcoming ailment and bringing instant wellness

The mini snack (Table1) consists of fruits and nuts, which contain high pH or alkaline in chemical characteristics, bringing instant relief from any ailments, caused by acidity [10, 11], [6]. The ailments caused by acidity are diabetic, arthritis, blood pressure, sugar and almost parallel body systems performing different function including reproduction [12]. In order to meet such high global demand this author brought innovative transformations of Forestry ecosystem in to Forestry- Horticulture [9, 13]. This transformation aims creating enhance vegetation cover in weak or barren for-

est land, which are fully controlled by governments to create enhanced goods and services for which forestry ecosystems had been created. The newly transformed Forestry Horticulture will comprise fruits and nuts which are not destroyable by birds and ground moving wild life animals. These fruits, nuts, bushes, herbs, resins and gums can be effectively derived from this new formation [13, 14]. Thus, innovative transformation will provide fruits and nuts making mini snacks etc (Table 1), making instant feel good and wellness. Regulation of acidity of urine having lot of implications on health and wellness will get easily ameliorated.

Table 1: Daily Meal and Mini Snack Chart

S.No	Day of week		BF	Mini snack	Lunch	Mini snack	Dinner	Post dinner	Remark
1	Monday	6.0	8.30	11.	13.30	17.0	20.0	22.0	
2	Tuesday	**		germinates		Crawn berry juice		Snjivni/ alternative	
3	Wednes day			Any fruit		germinates		do	
4	Thurs day			Roohafja drink		Coconut water		do	
5	Friday			germinates		Water millon		do	
6	Saturday			Crawn berry juice		G nut		do	
7	Sunday1			Cucumber		Rooh afja		do	

Sanjeevni (a name given to preparation) and alternative one spoon sugar free *Chyavanpras*

****A well tried acidity remover morning Aurvedic powder to be taken tea spoonful with a glass of normal drinking water**

- Note all medicine be continued as per ongoing treatment
- Lunch and dinner can be as per liking
- Mini snacks may be changed which can be one of cited or any

Implication of new theme food is medicine and developing suitable provision of availability of food commodity

This fact about acidity maneuver and mini snack bases are covered in detail in the referred article [10]. It is also clear that for any ailment oral medicine come to calm down pain in any part of body, which confirms that human body or for that matter any biological system works as an ecosystem and many parallel ecosystems [12], simultaneously remain working accomplishing basic function of an ecosystem of production, consumption and development of some waste products, which are disposed in different forms. Therefore, the acidity in human body can be regulated to remain in comfortable range so that both function of food digestion and keeping feel good and wellness, remain maintained in comfort range. The acidity in body can be measured from urine sample. A general fact that acidity of high range becomes necessary for bringing food digestion and after 3-4 h the acidity should come down. The high acidity situations demand taking some fruits and nuts which have high pH to keep pH in normal range of 5-8 with neutral at 7. Diurnal variation acidity/pH in urine becomes a guide to regulate acidity [13]. This fact makes it clear that normal food can overcome hunger, but for maintaining feel good and wellness ie life free of any ailment, the acidity needs to be regulated by taking food as medicine. This food is fruits and nuts of neither too sourer nor too sweet for example as lime and banana. These demands for fruits and nuts will be high, therefore, a mini snacks constituting fruits and snacks were developed and recommended to be taken after 3 to 3.5 h of breakfast and lunch, making a square meal to keep body free from acidity ailments [13]. The study established that forestry ecosystem should be transformed in Forestry -Horticulture, where hardy fruits which can be produced in new system to bring sufficiency of fruits and nuts. [13, 14]. Thus, bio factor is inspiring in development of ecosystem services. Earlier researches [15] highlighted utility of forestry ecosystem in improving quality of runoff water and making domestic water supply. The referred study showed that Forest cover significantly increased on sulphur content and pH, while change in agricultural land management resulted in change in nitrate and chloride level. This study brought Forestry Horticulture to produce plentiful fruits and nuts and enhance goods and services of forestry ecosystem. Cope of UN have been trying to enhance vegetation coverage in combating desertification. The new transformations will revamp the vegetation cover in the ecosystem.

Feasibility and potential of new transformation Forestry -Horticulture

In the previous section 3.2 it was established that scientific development in contemporary agriculture will enable maintain livelihood and sustainable sufficiency, which may lead to condition similar to those in developed countries. There will be situation of mall nutrition and lack of feel good and wellness leading to variety of health ailments. There is need to bring some innovative developments for enabling people acquire feel good and wellness. In these situations it requires bringing sufficiency of facilities which bring feel good and wellness for all gentry of countries, in general. Studies have established for acquiring instant relief from frequent urinary trouble, which highly disturbs feel good and wellness, some wisdom based innovation will be necessary. Such measure was developed and established by study [6, 10, 11] i.e. transformation of forestry in to Forestry -Horticulture. Further study on exploration of suitable fruits, nuts, herbs, resins and gums were

brought in study [13].

It was shown that all states have some areas reserved under forestry and accumulated areas occupys 21.338% (Table 3) of geographical areas of India. These areas have varying climatic condition viz temperate, sub-tropical, tropical and sub humid to humid regions. Different types of vegetation characteristics producing different types of fruits, nuts, herbs, resins, gums and spices. This situation enables natural development of diversifications that produce diversified types of horticultural produces. The most clear difference in acidity and alkalinity levels. All fruits and nuts have high pH, which when eaten it instantly overcome acidity and bring feel good and wellness. Although, intake of fruits and nuts had been going on, but systematic studies [10, 11, 13] produced scientific backing under the theme of food is medicine.

Out of significant percentage occupied by forestry (21.338%) of geographical areas of country, India, only 2.7 percent is under dense forest and remaining under moderate forest and open forest areas, where, Forestry Horticulture can be easily adopted. As entire forestry is under sole control of Ministry of Forests and Environment, such reformations can be easily enforced to bring sufficiency of fruits and nuts. The weak forestry cover will develop fast with nutrient and water management and low gestation of horticulture trees. Thus, utility of forestry ecosystem will get enhanced. The forestry ecosystems aim bringing environmental balance. The new transformation of forestry horticulture will produce plentiful fruits, nuts, herbs, resins and gums, usable in bringing feel good and wellness and making peoples' life easy.

The referred study [13] also brought global scenarios and revealed similar tremendous potential of transformation of Forestry -Horticulture in other countries of world. The transformation will enhance goods and services of existing forestry for bringing environmental balance, enhancement in vegetation cover, improving quality of runoff water in acid rain affected highly industrialized countries and produce horticulture produce for bringing general feel good and wellness. The innovative nutrient and water conservation application in Forestry Horticulture will foster building such impacts in shorter time of gestations than usual time taken by sole forestry growing naturally at sites. The moderately dense and open forest areas will get converted under dense cover, which will provide relief from the climate change and strongly support in combating desertification. The biodiversity based production of fruits, nuts, herbs resins and gums will create employment, trades and business, employment and prosperity in countries.

Bringing new global sweet revolution of honey and fortification of pollination through honey bee as well as wild pollinators

The newly transformed Forestry Horticulture will bear flowers and fruits, nuts and bushes as well herbs will come in annual sequence of flowering and fruiting This will enhance formation of nectar, which will be new wisdom based natural resources created in vast tract of Forestry Horticulture more vigorously than those with sole forestry which in dense in mere in 2.696 % of geological areas with forestry covering 21.338 % of India. When new transformation [18.64% of geographical area] is managed with nutrient, and water the growth will be profuse as precursor for flowering and fruiting. The flower will come with sweet nectar which will get sucked and collected by honey bees and other wild pollinators. The

pollinators will visit flowers and suck nectar and deposit in their combs. Thus a regular natural resource gets buildup by the wisely innovated new transformation of Forestry-Horticulture.

The honey from bee keeping is a natural product for multiple use developing in plant based ecosystems involving production and consumption, where pollens come with some sweet secretions and honey bees visit the flowers in search and extraction of the sweet secretion, suck and deposit nectar in the honey comb, which is extracted and harnessed by people. The Honey bees have existed for long time as established by an exemplary study on contribution of pollination by wild pollinators including honey bee, for exceptionally long period i.e. 1800 to 2016, involving large group of scientists. (Garibaldi et al., 2018)[14]. This study concluded that wild pollinators are almost twice more effective than the honey bees which enhanced fruit yield by 14%, regardless of abundance of honey. The study suggested that there should be integrated management of wild pollinators and honey bee pollinations. A good situation in Burkina Faso in Southern side of Sahara desert, where agriculture had suffered by climate change, is that there is no use of chemicals for weed control as well as for insect control measure, the pollinators including honey bees will be flourishing. It is expected that researches on such scientific issues will get conducted in Research resourceful countries and resulting technologies can find its application in situation as in Burkina Faso [2].

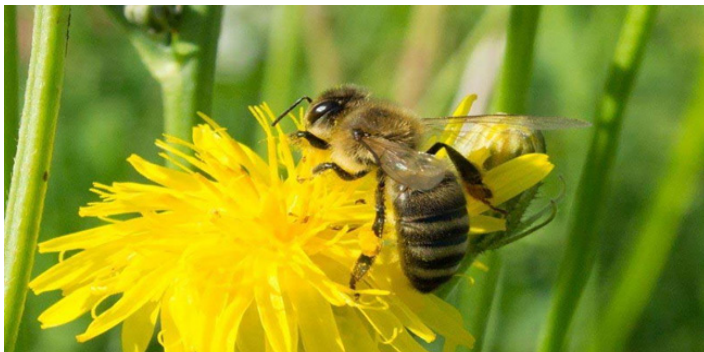


Figure 3: Bee, flower and nectar collection by bees enhance pollination hence the bees become friendly agent for agriculture.

Union Agriculture Minister reported the Government promoting Bee keeping as part of its aim to double farmers' income. India is among world's top five honey producers of honey, addressing a webinar organized by the National Cooperative Development Corporation (NCDC), the organizer said the Government has allocated Rs.500 crore towards Beekeeping under the Atma Nirbhar. Compared to 2005-06, honey production has risen by 242% and exports shot by 265%.

Beekeeping is poised to be an important factor in achieving the goal of doubling farmers' income by 2024. The National Bee Board has created four modules to impart training as part of the National Beekeeping and Honey Mission (NBHM). 30 lakh farmers had been trained in beekeeping and were also being financially supported by the Government. Even small and marginal farmers can adopt beekeeping since investment is low and returns high."

Issues before beekeepers such as promotion of scientific beekeeping, quality assurance, minimum support price, transport of bee

colonies, processing, packaging, branding, testing, organic certification of honey and different beehive products were discussed. Successful beekeepers and entrepreneurs from Kashmir, West Bengal, Uttarakhand, Bihar, Kerala, Tamil Nadu, Karnataka, Uttar Pradesh, Jharkhand and Madhya Pradesh shared their experiences and suggested ways forward to bring about the Sweet Revolution.

New innovative wisdom based

Fig 4 depicts broad spectrum of flowering which come up with nectar attracting wild and honey bees pollinators. The classical long term study running for more than three decades, involving more than 50 research scientists established that wild pollinators are more efficient than honey bees irrespective of sufficiency of nectars, which is although natural product, which have come with transformation of ecosystem. This study built a wise creation of ecosystem transformation involving Horticulture more prospecting for fruit and nut following profuse flowering, visited by both wild pollinators and honey bees. Innovative technology of eco zero weeding does not involve any chemical spray and any flowering on bushes, herbs will be intact serving as attraction. Thus, new wisdom built natural resources will enhance fruiting and nut bearing, including agriculture. Thus this research while utilizing lessons of previous researches, it advances in another important and promising direction of natural resources building the sweet revolution. Many related aspects have been covered in authors' earlier study [13].

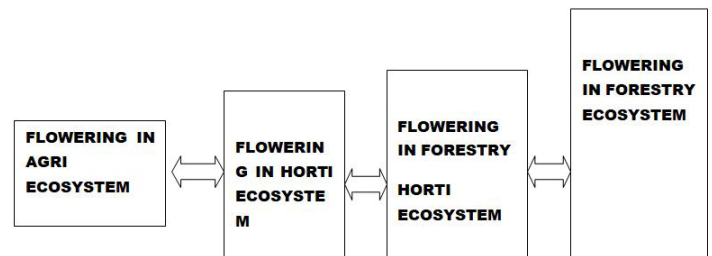


Figure 4: Broad spectrum of flowering in Agriculture, Horticulture, Forestry- Horticulture and Sole Forestry Ecosystems depicting continuous visits of both. Wild and honey bee's pollinators

The information brought here will induce confidence and way how the bee keeping can be strengthened in different countries. There will be some lean period so honey bee which is low in quality can be used for rearing the bee during such periods. A small water source could be arranged depending on main water sources.

Discussion

There have been varying situation in food sufficiency in developing and developed countries. Researchers have been focusing finding technologies for adoptions and developing livelihoods. Innovative bio factors of least resistance and non-strenuous paths were devised than inspired development of least strenuous path practices. On the other hand in developed countries, where exists food sufficiency, there is always endeavor to acquire feel good and wellness, but has been situation of beyond possible accomplishments. This bio factor and earlier stated factor inspired development of agricultural technologies for creating sufficiency in developing countries. Further research endeavors lead to development of ecosystem which can provide goods and services so that need of feel good and wellness get accomplished. In the process a bio

factor, which causes lot of uneasiness and stands as a precursor for many ailment was identified as development of excessive acidity. This acidity can be instantly eradicated and wellness acquired. This sub section is devoted on the ratification of results which can become justifications and serving human get relieved from such sufferings.

Acidity identification as a cause of disturbing feel good and wellness

Kidney is an important organ in human body, which filter toxic substances from water and blood circulating in body system; developed trouble of urge of frequent urination, pressing need to go toilet and causing inconveniences which needed emergency hospitalization. In emergency ward there too existed no instant relief providing medication and it took long time waiting for presence of urologist for giving prescription. With prescribed medication and tests it took about two days to come in comfortable situation.

Similar trouble of frequent urination reoccurred about two years later. The patient was advised for taking a spoonful antacid and lie down on flat bed eliminating gravitational pressure, subsided and patient's condition improved. Some liquid water absorbing food given to patient made fully recovered. This detail of case study was published in study [10]. In the study a food supplement menu named as mini snack was devised as per need of overcoming acidity which becomes severe after nearly completion of digestion in about 3h after breakfast and lunch. This instant control menu was traced from the publication [10] and needed medications were taken by kidney patient in Canada, who was advised by Urologist to go for dialysis or for kidney transplant. The said patient narrated his health story of trouble, severity and getting relived by an email. The prescribed mini snack was proven as instant relieving measure in Corona patients, where acidity develops fast and became desirable prescription [11]. The ingredients largely comprises fruits, nuts, herbs, resins and gums, which have high pH, instantly eliminate high acidity situation in to low acidity and bring instant feel good and wellness. Such mini snacks are taken during fasting days or any fasting festival days. This mini snack, if taken soon after completion of meal during Muslims fasting month Ramadan, it will eliminate acidity from stomach and provide relief to long duration fasting religious people.

Implication of parallel ecosystem in human bodies

Human body is corollary resemblance of a virtual ecosystem, which acquires food, nutrition air and water in unique respiratory and alimentary canal and cater need of other parallel ecosystems [12]. This implies that overcoming acidity by mini snack will overcome many ailments. Thus, food and mini snack amelioration will enable many ailments and make people healthy thereby, enhance working efficiency and maintaining harmony in society. This theme, 'food is medicine and nutrition', will enable hunger free food sufficiency and mini snack support will enable entire global gentry acquire feel good and wellness. Thus, this research bring lot of wellness and feel good enable people acquire happy tension free life and healthy living in India, in particular and entire global gentry, in general.

Innovative agriculture will produce food sufficiency and new ecosystem transformations will produce huge volume of fruits, nuts, herbs and resins and gums to cater global need for overcoming

stress and enjoy healthy life [10]. This will be a plausible situation for global gentry. Food is medicine is chartering ameliorative measures.

Feasibility and potential of new ecosystem in global scenario

Evidences showed that forestry is an important land use of lower category of land, owned fully by the Government. Therefore, this sector when devoted on Forestry- Horticulture, will provide fruits and nuts which will be available to public to maintain wellness. Thus, goods and services from forestry ecosystems will get enhanced. This transformation will provide dense cover, necessary for combating desertification. Thus, it will foster achieving U.N. Goal on controlling desertification.

Wild and honey bee Pollinators will foster pollination enhancing 14 % more than honey bee alone,

The efficiency of productivity of the Forestry –Horticulture will get revamped more than forestry alone. This increased productivity of fruits, nuts and honey will become commodity of export for strengthening economy of countries.

Possibility of enhancing ecosystem services

By this transformation the pressure on agri ecosystem will get reduced so there will be enhancement in productivity. The productivity of forestry will get enhanced, which will become a new component of goods and services. The utility of forestry ecosystem was a recognized in improving quality of acid water to become easy in treating for domestic water supply [15]. The strong biodiversity will bring feel good, health and wealth [16]. Thus, overall there will be improvements in goods and services from the ecosystems.

Conclusion

Bio inspired adaptations of innovative technologies with least strenuous paths produced livelihood sufficiency and food security, bringing food situation similar to those in developed countries. This implicated that there is something beyond the food security to maintain feel good and wellness.. Case study on frequent urination to instant relief for which other medical care took almost two days, confirmed that development of acidity ruins feel good and wellness. The study showed that removal of acidity by taking antacid and taking mini snack, which largely comprises fruits and nuts derivable from horticulture trees. Huge demand of fruits and nuts will be drawn from the most prevalent forestry ecosystem transformation in Forestry-Horticulture, which with support of eco-zero weeding eliminating any use of chemical spray creating conducive condition favorable for wild and honey bee pollinators enhancing fruit and nut productivity more than 14% in addition to honey. Thus, study showed better way of land resources use and ecosystem for welfare of people for healthy and wealthy life with several needed maneuvers.

References

1. Bhushan YK (1997) Fundamentals of business organization and management. Educational publishers.
2. Yadav RC (2021) Innovative technology trumpeting for bringing country's total sustainable prosperity: A case study of Burkina Faso and other neighboring countries. African J Environmental Sciences and Technology, UK. 15 (1) pp:
3. Yadav RC (2018). Eco-zero weeding: Apanacea shrine for total solution in agriculture. Research and Review J of Ecology

- and Environmental Science.6: 94-104.
4. Yadav RC (2017). Eco-zero weeding: a vow incredible innovation for altering things around us and India inaction. World J. Agri Research. Sci.EP, U.K. 2017.6 (5):94-104
 5. Yadav RC (2019). Eco-Zeo weeding: A useable science for harnessing multiple benefits. Research and review journal of ecology and environmental sciences. 7: 16-22.
 6. Yadav, R.C. .Bio boosted decomposition of wastes for discouraging biomass burning for clean air and prospering agriculture. Significance of Bioengineering and Biosciences. 2021.4(5)426-435.
 7. Yadav RC (2020). Renaissance of raised broad bed and furrow (RBBF) as soil nano technology for producing global food and sufficiency for accomplishing sustainable development goal. Sun Text Review of Biotechnology. 1: 1-20.
 8. Yadav RC (2019). Smart alive and enthusiastic (RACY) nature agriculture an incredible innovation to stand ever superb over Visionary Agriculture and Food System 2050 and beyond. Intern J agriculture innovation and research. On line 7: 549-559.
 9. Yadav RC, Yadav and Jaya (2021). Least strenuous path: A new bio factor for strategic policies on adaptations for coping with climate change in Africa with special reference to highly suffered Zambia. Significance of BioEngineering and Biosciences.5: 472-483.
 10. Yadav RC and Yadav Jaya (2021). Providing instant relief from problem of frequent urination inevitable emergency hospitalization: A bio physical new scientific vision. World J of Pharmacy and Pharmaceutical Sciences. 10: 1806-1820.
 11. Yadav, R.C and Yadav, Jaya. Blow kill virus in flame and eradicate acidity and enhance feel good and wellness-A new physico-bio factor to combat Covid 19 and its Variants. In book Principle based combat Corona for saving lives, economy and employment. Under publication.
 12. Olf H, Alonso D, Berg MP, Eriksson BK and Loreau M, et al. (2009). Parallel ecological networks in ecosystems. Philosophical Transactions of Royal Society of Aquaculture and Irrigation, Szarvas (Hungary). 364: 1755-1779.
 13. Yadav RC, Yadav LM and Yadav Jaya (2021). Exploratory study on suitable horticultural trees for building sufficiency of fruits and nuts from new transformation of Forestry – Horticulture. J of Agriculture and Forestry Research. 4: 1-8.
 14. Garibaldi LA, Steffan-Dewenter I, Winfree R, Aizen MA and Bommarco R (2018). Wild pollinators enhance fruit set of crops regardless of honey bee abundance. Science 339: 1608-1611.
 15. Trenaiansky, Sterbova, Martina, Vybostok and Jozef, et al. (2021) Impact of forest cover on surface runoff quality in small catchments. Bio Resources.
 16. Frison EA, Cherfas J and Hodgkin T (2019). Agricultural biodiversity is essential for a sustainable improvement in food and nutrition security. Sustainability 3: 238-253.

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