

Advancements in Signature of a Classical Indian: The Agriculture

Adusumilli HT*

¹Department of Biotechnology, GITAM University, India

*Corresponding author: Adusumilli HT, Department of Biotechnology, GITAM University, India; E-mail: a.harshateja@outlook.com

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Abstract

Agriculture is the cultivation of plants, fungi and animals for food, fibres, nutrients for nourishment and effective maintenance of growth and sustainability of an Individual human being. The primary source of work for a typical Indian is farming. Today, India ranks second worldwide in farm output. All urban industrial societies depend on the base of the food surplus produced by farmers. It is must to mention that without agriculture, there could be no downtowns, corporate world, industries and further developments. We can consider earth as a dead planet without agriculture. In some parts of Asia and Africa, there is evidence that 80% of labour force is engaged in agriculture. As it is considered as the principle enterprise of mankind through most of the recorded history, important economic activity in India, it is the time for guidance and briefing of modern advancements in the field of agriculture to horticulturist. This review examines the benefits of modern day agriculture. An assignment made necessary by the fact that aproportion share of the population has little connection to farms or rural areas and thereforea little moment to understand the nature of farming, especially the modern improvements that are both helping to better feed the world's people and better protect the environment.

keywords: Agriculture; Modern techniques; Conventional methods; Food; Pesticides and fertilizers

Introduction

Modern Agriculture

The modern agriculture makes use of hybrid seeds of selected varieties of a single crop, technologically advanced equipment and lot of energy subsidies in the form of irrigation water, labour, pesticides and fertilizers.

The innovationl of agricultural systems is a characteristic well understood by farmers but not easily defined with precision. Still, the distinctions between modern and traditional systems have powerful connotations for the future development of the global food system [1-5]. Even though it is important to recognize that few, if any, systems fall entirely into either the modern or traditional categories.

Traditional systems

This may be the most important difference between the categories is the way farmers see themselves and their roles. Traditional farmers, for example, often say that they seek to work effectively with the available resources in their hands i.e., they use the land, rainfall, seeds, agronomic methods and power sources they have to produce what nature offers [6-20]. Conventional processes are adopted to till the land, select and plant seeds, protect plants from weed plants, animals and gather the harvested crop. Surpluses are marketed through nearby merchandise. Such producers frequently admit only limited capacity to change these processes and some explore to avoid change.

The productivity of such methods depends primarily on the fertility of the soils enhanced by skilful care and on the climate in the region [21-45]. The technology and management systems involved are often characterized by lack of approach to use new orientation about production and/or management, or public or commercial assistance [46]. Their productiveness tends to grow slowly, often in response to outside expansions that reduce producer isolation, increase access to markets or support investment in water and land.

Modern agriculture

In modern agricultural methods, farmers will have very different view from that of traditional farmers. They believe that they have much more central roles and are eager to apply technology and information to control most components of the system. In converse to the isolation of built-in traditional arrangements, modern agriculture tends to see its success by relying on linkages like access to technology, management, resources, investment, merchandise and supportive government policies.

Open access journals provide more accessibility to the readers in gaining the required information. The ongoing researches all over the world, which are being exhibited through open access journals, serve as the main source of information in various fields. In order to create awareness among the people, group of physicians and consultants unite to form a societies or an organization. The main aim of these societies is to counsel and create awareness among the agriculturists. Major societies like The royal ulster agricultural society, first known as the North East agricultural association was formed in 1854 following the Great Famine with the desire to improve agriculture [47-62]. The first annual show was held at Balmoral on the 17th – 19th June 1896 and on the 29th 1934, His Royal Highness and the Duke of Gloucester opened the Kings Hall which quickly became a landmark of international renowned [64-69]. It also support and promote researches in the field of Agriculture. Indonesian Society Of Agricultural Engineering was established in 1968 and is also known as Association Agricultural Engineering Indonesia (Perteta) [70-78]. The main aim of the society is to promote, drive and develop the science involved in the agricultural engineering profession in Indonesia and also to create a means and a media that will lead the further enhancement in the science and profession and develop passion in the members for growth of fostering agricultural engineering corps spirit. Meiping Zhang is the professor of Plant Biotechnology, has lot of interest towards the field of Agronomy, genomics and System Biology. She attended the Agrotechnology Conference and gave a valuable speech on agro technology.

Conference Series LLC, with pride invited all contributors to attend the “5th International Conference on Agriculture and Horticulture (Agri 2016)”, hosted during June 27-29, 2016 in Cape Town, South Africa. The organizing committee is conducted an exciting and informative conference on advance topics related to agriculture and allied fields through oral and poster presentations, symposia, workshops and exhibitions [79-85]. Conference Series LLC invited researchers to join them at Agriculture conference, where they were exposed to knowledge and information from eminent scholars and scientists

across the world. Conference Series LLC is welcoming all the interested participants all over the world to “16th Euro-Global Summit on Food & Beverages” to be held during March 2-4, 2017 at Amsterdam, Netherlands. Euro Food 2017 is the top-tier food event that brings together a typical and international mix of experts, researchers and decision makers from academia and industry across the globe to exchange their experience, knowledge and research innovations to build a world’s food scientists, industrialists and entrepreneurs meet.

To the contributors across the world, they are inviting experts to Conference Series premier 7th International Conference on Aquaculture & Fisheries to be held during October 19-21, 2017 at Rome, Italy. Aquaculture congress is the premier event that brings together a specific and International mix of experts, like aquaculture engineers, researchers and decision makers both from universities and industry across the globe to shuffle their knowledge, expertise and research innovations to the world aquaculture conference [86-90]. Aquaculture is a Major Field in recent food supply according to the FAO, aquaculture is understood to describe the farming of aquatic organisms including fish, crustaceans, molluscs and aquatic plants. Farming implies some type of intervention in the rearing process to influence the production, such as regular stocking, feeding, protection from predators, etc. Saadu Umar did Ph.D in Agricultural Extension at the age of 40, Usmanu Danfodiyo University, Sokoto [91-100]. He has published more than 15 papers in reputed journals, both in National and International journal. He gave a speech on Socio-economic factors influencing the use of coping strategies among conflict actors (farmers and herders) in Giron Masa village, Kebbi state, Nigeria.

Conclusion

Upgradation of civilization is firmly related to agriculture that produces food to satisfy hunger. In the entire world, nearly one billion people are living below poverty line. Therefore, the increased food production should aim at ranking food production in the next century. In India, more than 70% of the population is depending on agriculture in different forms. The current population is about 1000 million which is expected to sustain at about 1500 million by the middle of this century. This trend of population growth created alarming situation as the scope of increasing area under cultivation is limited.

REFERENCES

1. Zimowska B Occurrence and Characterization of *Phyllosticta plantaginis*. J Plant Physiol Pathol. 2013;1:1.
2. Awasthi K, Sinha P Nickel Stress Induced Antioxidant Defence System in Sponge Gourd (*Luffa Cylindrical*). J Plant Physiol Pathol. 2013;1:1.
3. Kumar A, Sarin NB RNAi: A Promising Approach to Develop Transgenic Plants Against Gemini viruses and Insects. J Plant Physiol Pathol. 2013;1:1.
4. Dang QL Improving the Quality and Reliability of Gas Exchange Measurements. J Plant Physiol Pathol. 2013;1:2.
5. Creamer R, Baucom D Fungal Endophytes of Locoweeds: A Commensal Relationship? J Plant Physiol Pathol. 2013;1:2.
6. Leo Daniel AE, Venkateswarlu B, Suseelendra D, et al. Effect of Polymeric Additives, Adjuvants, Surfactants on Survival, Stability and Plant Growth Promoting Ability of Liquid Bioinoculants. J Plant Physiol Pathol. 2013;1:2.
7. Shi CH, Zheng DD, Jin XL, et al. Analysis of Genetic Relationships between Seed Nutrient Traits and Plant Agronomic Traits in Indica Rice (*Oryza sativa* L.). J Plant Physiol Pathol. 2013;1:2.
8. Srivastava S, Sharma YK (2013) Arsenic Phytotoxicity in Black Gram (*Vigna Mungo* L. Var. PU19) and its Possible Amelioration by Phosphate Application. J Plant Physiol Pathol 1:3.
9. Freire MGM, Souza CLM, Portal TP, et al. Effect of Castor Bean Oil on Post Harvest Fungal Pathogen of Coconut: *Lasiodiplodia theobromae*. J Plant Physiol Pathol. 2013;1:3.

10. Malafaia CB, Silva TD, do Amaral DOJ, et al. Evaluation of the Resistance and Differential Induction of Chitinases in Tomato in Response to Inoculation with *Fusarium oxysporum* f. sp. *lycopersici*. *J Plant Physiol Pathol*. 2013;1:3.
11. Vinod Kumar, Singh AU, Singh HS Initial Population Density its Effect on the Pathogenic Potential and Population Growth of *Rotylenchulus reniformis* on Cowpea (*Vigna unguiculata* L.). *J Plant Physiol Pathol*. 2013;1:3.
12. Sobhy II AH, Abo-Elyousr KAM, Abdel-Rahim IR Effect of Certain Plant Extracts to Control Purple Blotch Disease of Onion Plants (*Allium cepa* L.). *Upas. J Plant Physiol Pathol*. 2013;1:4.
13. Sinha P, Sharma YK, Shukla AK Oxidative Stress Responsive Enzymes and Non-Enzymatic Components in Response to Excess Cadmium in Pigeon Pea (*Cajanus cajan* Mill) Cv. *Upas. J Plant Physiol Pathol*. 2013;1:4.
14. Srivastava S, Sharma YK Altered Growth, Photosynthetic Machinery and Induced Oxidative Stress in Spinach in Response to Arsenic Stress. *J Plant Physiol Pathol*. 2013;1:4.
15. Vinod K, Singh AU, Singh HS, et al. Initial Population Density its Effect on the Pathogenic Potential and Population Growth of *Rotylenchulus reniformis* on Cowpea (*Vigna unguiculata* L.). *J Plant Physiol Pathol*. 2013;1:3.
16. Cruz AF, Soares WRO, Blum. LEB Impact of the Arbuscular Mycorrhizal Fungi and Bacteria on Biocontrol of White Root Rot in Fruit Seedlings. *J Plant Physiol Pathol*. 2014;2:1.
17. Cruz AF, Pires MC, Soares WRO, et al. Soil-Borne Plant Pathogens Associated to Decline of Grapevine Grown in Greenhouse. *J Plant Physiol Pathol*. 2014;2:1.
18. Archana U Singh, Prasad D Management of Plant-parasitic Nematodes by the Use of Botanicals. *J Plant Physiol Pathol*. 2014;2:1.
19. Seleim MA, Abo-Elyousr KA, Mohamed AAA, Al-Marzoky HA (2014) Peroxidase and Polyphenoloxidase Activities as Biochemical Markers for Biocontrol Efficacy in the Control of Tomato Bacterial Wilt. *J Plant Physiol Pathol* 2:1.
20. Thivya N, Srilakshmi K V, Bhuvaneshwari S, et al. Phytoaccumulation of Chromium and Copper by *Mentha spicata* L. *J Plant Physiol Pathol* 2014; 2:1.
21. Sinha P Modulation of Oxidative Stress Responsive Enzymes and Non-Enzymatic Components by Excess Nickel in *C. Lanatus* *Lanatus* Var. *Fistulosus*. *J Plant Physiol Pathol*. 2014;2:1
22. Lemma A, Woldeab G, Selvaraj T Response of Improved Durum Wheat (*Triticum durum* L.) Varieties to Wheat Stem Rust in Central Ethiopia. *Adv Crop Sci Tech*. 2015;3:158.
23. Teshome Z, Kibret K Characterization of Soil Management Groups of Metahara Sugar Estate in Terms of their Physical and Hydraulic Properties. *Adv Crop Sci Tech*. 2015;3:159.
24. Suma R, Savitha CM Integrated Sugarcane Trash Management: A Novel Technology for Sustaining Soil Health and Sugarcane Yield. *Adv Crop Sci Tech* 2015;3:160.
25. Shahin SI, El-Orabey WM Relationship between Partial Resistance and Inheritance of Adult Plant Resistance Gene Lr 46 of Leaf Rust in Six Bread Wheat Varieties. *Adv Crop Sci Tech* 2015;3:161
26. Saeed H, Grove IG, Kettlewell PS, et al. Hydraulic Redistribution from Wet to Drying Roots of Potatoes (*Solanum tuberosum* L.) During Partial Rootzone Drying. *Adv Crop Sci Tech* 2015;3:162
27. Tamang D, Nath R, Sengupta K Effect of Herbicide Application on Weed Management in Green Gram [*Vigna radiata* (L.) Wilczek]. *Adv Crop Sci Tech*. 2015;3:163.
28. Woldeab G, Hailu E, Ababa T, et al. Virulence Spectrum of *Puccinia hordei* of Barley in Western and Central Highlands of Ethiopia. *Adv Crop Sci Tech*. 2015;3:164.
29. Hafeez A Arsenic Distribution in Green Bean Yield Irrigated by Waste Water. *Adv Crop Sci Tech* 2015;3:165.
30. Hailu E, Woldeab G Survey of Rust and Septoria Leaf Blotch Diseases of Wheat in Central Ethiopia and Virulence Diversity of Stem Rust *Puccinia graminis* f. sp. *tritici*. *Adv Crop Sci Tech*. 2015;3:166.
31. Singh A, Sengar RS DNA Fingerprinting Based Decoding of Indica Rice (*Oryza sativa* L) Via Molecular Marker (SSR, ISSR, & RAPD) in Aerobic Condition. *Adv Crop Sci Tech*. 2015;3:167.
32. Abebe B, Workayehu T Effect of Method of Sowing and Time of Di-Ammonium Phosphate (DAP) Fertilizer Application, on Yield and Yield Components of Tef (*Eragrostic tef*) Trotter) At Shebedino, Southern Ethiopia. *Adv Crop Sci Tech*. 2015;3:168.
33. Wolde Z, Haile W, Singh D Phosphorus Sorption Characteristics and External Phosphorus Requirement of Bulle and Wonago Woreda, Southern Ethiopia. *Adv Crop Sci Tech*. 2015;3:169.
34. Imran S, Arif M, Khan A, et al. Effect of Nitrogen Levels and Plant Population on Yield and Yield Components of Maize. *Adv Crop Sci Tech*. 2015;3:170.

35. I S, Mohammed W, Shimelis B Agronomic and Physicochemical Evaluation of Sweet Potato [*Ipomoea batatas* (L.) Lam.] Collections in Ethiopia. *Adv Crop Sci Tech*. 2015;3:172.
36. Hailu E, Woldaeb G, Danbali W, et al. Distribution of Stem Rust (*Puccinia graminis* f. sp. *tritici*) Races in Ethiopia. *Adv Crop Sci Tech*. 2015;3:173.
37. Afari-Sefa V, Asare-Bediako E, Kenyon L, et al. Pesticide Use Practices and Perceptions of Vegetable Farmers in the Cocoa Belts of the Ashanti and Western Regions of Ghana. *Adv Crop Sci Tech* 2015;3:174.
38. Poudyala D, Khatria L, Uptmoora R. An Introgression of *Solanum habrochaites* in the Rootstock Improves Stomatal Regulation and Leaf Area Development of Grafted Tomatoes under Drought and Low Root-Zone- Temperatures. *Adv Crop Sci Tech*. 2015;3:175.
39. Luna V, Masciarelli O, Travaglia C, et al. The Need for Herbicide Use in Direct Seeding, Promotes More Sustainable and Implementation of Integrated Systems. *Adv Crop Sci Tech*. 2015;3:176.
40. Moumene MS, Olubunmi OF, Laidani M, et al. *In Vitro* and *In Vivo* Effects of Aqueous Extract of *Rosmarinus officinalis* L. (Rosemary) in The Control of Late Blight Disease of Potato Caused by *Phytophthora Infestans* Mont. De Bary. in Algeria. *Adv Crop Sci Tech* 2015;3:177.
41. Ibrahim MA, Alhameid AH, Kumar S, et al. Long-Term Tillage and Crop Rotation Impacts on a Northern Great Plains mollisol. *Adv Crop Sci Tech* 2015;3:178.
42. Tadele Z, Wüthrich SP, Blösch R Efficiency of *In Vitro* Regeneration is Dependent on the Genotype and Size of Explant in Tef [*Eragrostis tef* (Zucc.) Trotter]. *Adv Crop Sci Tech* 2015;3:179.
43. Chandra Sekhar R, Kasturi A, Manohar Rao A, Effect of Harvesting at Different Heights on Growth and Flower Yield of Carnation (*Dianthus caryophyllus* L.) in Second Season Crop. *J Horticulture*. 2013;1:101.
44. Petran A, Hoover E. *Solanum torvum* as a Compatible Rootstock in Interspecific Tomato Grafting. *J Horticulture* 2014;1:103.
45. Ademe A, Ayalew A, Woldetsadik K *In Vitro* and *In Vivo* Activity of Selected Plant Extracts against Papaya (*Carica papaya* L.) Anthracnose (*Colletotrichum gloeosporioides*). *J Horticulture* 2014;1:104.
46. De LC, Vij SP, Medhi RP Post-Harvest Physiology and Technology in Orchids. *J Horticulture* 2014;1:102.
47. Mishra RK, Verma DK, Pandey BK, et al. Direct Colony Nested-PCR for the Detection of *Fusarium oxysporum* f. sp. *Psidii* Causing Wilt Disease in *Psidium guajava* L.. *J Horticulture*. 2014;1:105.
48. Hayek T, Rosenblat M, Volkova N, et al. The Effects of Pomegranate Extract (POMx), Simvastatin, or Metformin Therapies in Hypercholesterolemic or in Diabetic Patients on Daily Rhythms of Serum Lipids and of Oxidative Stress: A Pilot Study. *J Horticulture*. 2014;1:106.
49. Shiberu T, Mahammed A The Importance and Management Option of Onion thrips, *Thrips tabaci* (L.) (Thysanoptera: Thripidae) in Ethiopia: A Review. *J Horticulture*. 2014;1:107.
50. Garande VK, Patil RS Orange Fruited Tomato Cultivars: Rich Source of Beta Carotene. *J Horticulture*. 2014;1:108.
51. Kanara HG, Acharya MF. Bionomics of Rose Thrips, *Frankliniella Occidentalis* Pergande. *J Horticulture*. 2014;1:109.
52. Ntuli TM. The Role - Activity and/or Processing - Of (Re) Active Oxygen Species in Desiccation Sensitivity and/or Tolerance, Development, Dormancy and/or Germination in Seeds. *J Horticulture*. 2014;1:110.
53. Hasan H, Battikhi A, Qrunfleh M Impacts of Treated Wastewater Reuse on Some Soil Properties and Production of *Gladiolus communis*. *J Horticulture*. 2014;1:111.
54. Chattopadhyay A Effect of Vermiwash and Vermicompost on an Ornamental Flower, *Zinnia* sp.. *J Horticulture* 2014;1:112.
55. Hashida SN, Kitazaki K, Shoji K, et al. Influence of Nitrogen Limitation and Long-Term Use of Rockwool on Nitrous Oxide Emissions in Hydroponic Systems. *J Horticulture*. 2014;1:113.
56. Chang L, Zhiyong L, Xueling Y, et al. Transcriptome Analysis of the Chinese Cabbage (*Brassica rapa* Ssp. *Pekinensis*) Petal Using RNA-Seq. *J Horticulture*. 2014;1:114.
57. Vimala B, Pratap M. Effect of Different Priming Methods on Seed Quality, Biochemical Changes and Storability of China Aster (*Callistephus Chinensis* L. Nees). *J Horticulture*. 2014;1:115.
58. Kukanoor L, Pattar A, Karadiguddi M, et al. Effect of Pre-treatments on Physical and Sensory Qualities of Dehydrated Carrot Slices. *J Horticulture*. 2014;1:116.
59. Tsegaye B, Mohammed A, Getachew E Impact of Sun Drying Methods and Layer Thickness on the Quality of Highland Arabica Coffee Varieties at Limmu, Southwestern Ethiopia. *J Horticulture*. 2014;1:117.

60. Usmanov I Yu, Yumagulova ER, Ovechkina ES, et al. Fractal Analysis of Morpho-Physiological Parameters of *Oxycoccus Palustris* Pers in Oligotrophic Swamps of Western Siberia. *Vegetos.* 2015;29:1.
61. Rozentsve Q, Grebenkina T, Nesterov V, et al. Seasonal Dynamic of Morpho-Physiological Properties and the Lipid Composition of *Plantago Media* (Plantaginaceae) in the Middle Volga Region. *Vegetos.* 2015;29:1.
62. Sala M, Shanthi P, Selvi B, Marker based Genetic Diversity of Rice Genotypes for Salinity Tolerance at Panicle Initiation Stage. *Vegetos.* 2016;29:1.
63. Das N, Mishra S, Chowdhury P, Comparative Study of Fruiting Body Production of some Oyster Mushroom in Two Different Temperatures. *Vegetos.* 2016;29:1.
64. Pandey KK, Maurya D, Gupta G, et al. Yield Forecasting Models based on Weather Parameters for Eastern U.P. *Vegetos.* 2016;29:1.
65. Ghosh A, Dey K, Bhowmick N, et al. Impact of Different Pruning Severity and Nutrient Management on Growth and Yield of Lemon cv. Assam Lemon (*Citrus limon* Burm.). *Vegetos.* 2016;29:1.
66. Gupta S, Agnihotri S, Ali SM Physicochemical Analysis and Homology Modeling of Antioxidant Proteins of Foxtail Millet (*Setaria Italica*). *Vegetos.* 2016;29:1.
67. Radhouani, Ferchichi Quality's Attributes of Tomato Conducted under Greenhouse in Relation to Climatic Conditions. Ginnala in China. *Vegetos.* 2016;29:1.
68. Parveen A, Kyunn WW Antioxidant and Anti-Cholinergic Activities of Phenolic Compounds Isolated From *Thymus linearis* Collected from Dir, Pakistan. *Vegetos.* 2016;29:1
69. Zhao A, Chen W, Yan D, Wang Y The Potential Geographic Analysis and Prediction of *Acer tataricum* subsp. Ginnala in China. *Vegetos.* 2016;29:1.
70. Afrâa R, Sushant S, Ali F Assessment of The Composting Process and Compost's Utilization. *Vegetos.* 2016;29:2.
71. Dubey MK, Zehra A, Meena M et al. Taxonomic notes on *Allomyces neomoniliformis* (Blastocladiaceae) isolated from Nanital lake, Uttarakhand, India. *Vegetos.* 2016;29:2.
72. Veena GL, Muralidhara BM, Ahmad I, Phylogenetic Analysis Reveals the Conservation of micro RNA 171 genes in diverse Fruit Species. *Vegetos.* 2016;29:2.
73. Tyagi V, Koul AK, Pedapati A, et al. Utilization of Exotic Plant Genetic Resources in Wheat Registered Germplasm. *Vegetos.* 2016;29:2.
74. Nidhina K, Sharadraj KM, Prathibha VH, et al. Antagonistic Activity of *Trichoderma* Spp. to Phytophthora Infecting Plantation Crops and its Beneficial Effect on Germination and Plant Growth Promotion. *Vegetos.* 2016; 29:2.
75. Mangal M, Upadhyay P, Kalia P Characterization of Cultivated and Wild Genotypes of Brinjal (*Solanum melongena* L.) and Confirmation of Hybridity using Microsatellite Markers. *Vegetos.* 2016;29:2.
76. Prakash D, Benbi DK, Saroa GS Dependence of Soil Organic Carbon on available Iron and Manganese Concentrations in Submerged Rice Soils. *Vegetos.* 2016;29:2.
77. Ivanov VB, Alexandrova VV, Usmanov IYu et al. Comparative Evaluation of Migrating Anthropogenic Impurities in Ecosystems of the Middle Ob Region through Bioindication and Chemical Analysis. *Vegetos.* 2016;29:2.
78. Gupta S, Yadav R, Bhatnagar SK, et al. Seed Storage Proteins of Foxtail Millet: Structural and Functional Analysis using Computational Approach. *Vegetos.* 2016;29:2.
79. Saadati S, Moallemi N, Mortazavi SMH, et al. Foliar Applications of Zinc and Boron on Fruit Set and Some Fruit Quality of Olive. *Vegetos.* 2016;29:2. doi:
80. Akbari DL, Akbari LF, Golakiya BA Stimulation of Plant Growth and Drought Tolerance on Wheat by Endophytic Bacteria from Dry Environment. *Vegetos.* 2016;29:2.
81. Zhang J, Dong S, Dai X, et al. Combined Effect of Plant Density and Nitrogen Input on Grain Yield, Nitrogen Uptake and Utilization of Winter Wheat. *Vegetos.* 2016;29:2.
82. Vlasak J, Cvrckova H, Machova P, et al. Chloroplast trnD-trnT Region Sequencing for Quick Haplotyping of Oak Populations. *Vegetos.* 2016;29:2.
83. Ongerep S, Kidia J, Masibo M, et al. Evaluating the Growth Performance of *Melia volkensii* in Kifu Forest, a Potential Timber Plantation Species in Uganda. *Vegetos.* 2016;29:2.
84. Kumar P, Rudra SG, Varghese E, et al. Extrusion Conditions Effects Functional and Pasting Properties of Finger Millet. *Vegetos.* 2016;29:2.

85. Wu L, Duan C, Wang SM Impact of Agricultural Activity and Climate Change on Spatio-Temporal Evolution in Soil Salinization in Manas River Basin, China. *Vegetos*. 2016;29:2.
86. Al-Nadhari SN, Al-Hazmi AS, Al-Yahya FA, et al. Comparative Efficacy of Different Approaches to Manage *Meloidogyne Incognita* on Green Beans. *Vegetos*. 2016;29:2.
87. Negese K Stock Assessment and Estimation of Optimum Yield for Tilapia Stock (*Oreochromis niloticus*) in Lake Hawassa, Ethiopia. *Poult Fish Wildl Sci*. 2016;4:156.
88. Suantika G, Pratiwi MI, Situmorang ML, et al. Ammonium Removal by Nitrifying Bacteria Biofilm on Limestone and Bioball Substrate Established in Freshwater Trickling Biofilter. *Poult Fish Wildl Sci*. 2016;4:157.
89. Salo S, Tadesse G, Hilemeskel D Village Chicken Production System and Constraints in Lemo District, Hadiya Zone, Ethiopia. *Poult Fish Wildl Sci*. 2016;4:158.
90. Halidullin O The Hypothesis of the Causes of Climate Change. *Poult Fish Wildl Sci*. 2016;4:159.
91. Alice OD, Elegbede IO Impact and Challenges of Marine Medicine to Man and its Environment. *Poult Fish Wildl Sci*. 2016;4:160.
92. Bala HK, Igwe JC, Onaolapo JA Antibiotic Susceptibility Profile of Methicillin Resistant *Staphylococcus aureus* in Poultry Farm, in Zaria, Nigeria. *Poult Fish Wildl Sci*. 2016;4:161.
93. Yi-ping L, Dan L, Yao-dong H, et al. Analysis of the Chinese Indigenous Chicken's Meat Quality in Different day for Optimum Slaughter Time. *Poult Fish Wildl Sci*. 2016;4:162.
94. Daud Om A, Jasmani S, Sung YY, et al. Use of Vitellogenin as Biomarker Indicator in Sex Identification of Giant Grouper (*Epinephelus lanceolatus*). *Poult Fish Wildl Sci*. 2016;4:163.
95. Tolessa ES, Belew D, Debela A, et al. Effect of Nitrogen Rates and Irrigation Regimes on Water Use Efficiency of Selected Potato Varieties in Jimma Zone, West Ethiopia. *Adv Crop Sci Tech*. 2016;4:244.
96. Mekonnen G, Sharma JJ, Negatu LW, et al. Growth and Yield Response of Cowpea (*Vigna unguiculata* L. Walp.) to Integrated Use of Planting Pattern and Herbicide Mixtures in Wollo, Northern Ethiopia. *Adv Crop Sci Tech*. 2016;4:245.
97. Sticklen M Metabolic Engineering Technology to Increase Corn Seed High Energy-Density Storage Oil by Two-Fold to Benefit the US and Sub-Saharan Africa. *Adv Crop Sci Tech*. 2016;4:246.
98. Raju AI-CH, Pulipati K, Jetti A Production of Invertase by *Aspergillus niger* Under Solid State Fermentation Using Orange Fruit Peel as Substrate. *Adv Crop Sci Tech*. 2016;4:247.
99. Getnet B, Bantte K, Diro M Table Sugar as Low Cost Option and its Concentration Effect on Shoot Multiplication of Sugarcane (*Saccharum officinarum* L.) Genotypes. *Adv Crop Sci Tech*. 2016;4:248.
100. Mebratu Y, Raghavaiah CV, Ashagre H Production Potential of Tef (*Eragrostis tef* (Zucc.) Trotter) Genotypes in Relation to Integrated Nutrient Management on Vertisols of Mid High lands of Oromia Region of Ethiopia, East Africa. *Adv Crop Sci Tech*. 2016;4:249.
101. Shunka E, Chindi A, W/giorgis G, et al. Response of Potato (*Solanum tuberosum* L.) Varieties to Nitrogen and Potassium Fertilizer Rates in Central Highlands of Ethiopia. *Adv Crop Sci Tech*. 2016;4:250.