

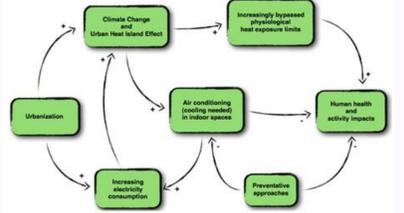
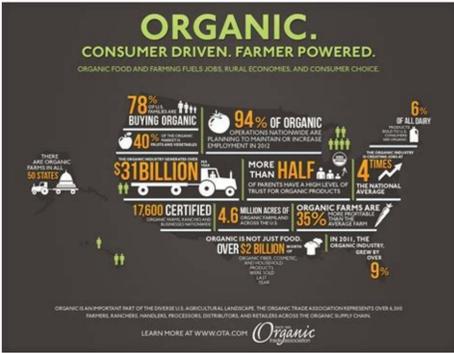


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Sustainable agriculture definition and concepts pdf



Objective of Organic Farming (As per IFOAM)

- To produce food of high nutritional quality in sufficient quantity
- To work with natural system rather than seeking to dominate them.
- To encourage and enhance biological cycles within farming system-involving microorganisms, soil flora and fauna, plants and animals.
- To maintain and increase long term fertility of soil.
- To use, as far as possible, the renewable resources to work as much as possible, within a closed system, with regard to organic matter and nutrient elements.



What is the concept of sustainable agriculture. Sustainable agriculture definition and concepts pdf.

Market competition is limited. Chapter 1, Part 1 and Chapter 2, Introduction. Hill, Environmental Sustainability and the Redesign of Agroecosystems (Ecological Agriculture Projects (EAP), McGill University, 1992). Dr. Hill goes on to explain: "To help recognize these real issues I distinguish between shallow (short-term, symbolic) and deep (long-term, fundamental) sustainability. However, they share many characteristics: rapid technological innovation; large capital investments in order to apply production and management technology; large-scale farms; single crops/row crops grown continuously over many seasons; uniform high-yield hybrid crops; extensive use of pesticides, fertilizers, and external energy inputs; high labor efficiency; and dependency on agribusiness. From strongly agrarian roots, we have evolved into a culture with few farmers. The stage is set for challenging not only farm practitioners, but also researchers, educators, and farm industry." (Garth Youngberg and Richard Harwood, "Sustainable Farming Systems: Needs and Opportunities," American Journal of Alternative Agriculture (1989) 4(3 & 4): p.100. Use of this philosophy guides our application of prior experience and the latest scientific advances to create integrated, resource-conserving, equitable farming systems. After all, who would advocate a "non-sustainable agriculture" (Charles A. "Farm crises" seem to recur with regularity. [Stuart B. no one of which has any way to prove the other wrong, or illegitimate. Wallace Institute for Alternative Agriculture, 1995). Population Division, Department of Economic and Social Affairs, United Nations Secretariat, World Population Projections to 2150 (United Nations, Feb. Gardner, Planting the Future: Developing an Agriculture that Sustains Land and Community (Iowa State University Press, 1995). Smith, Intensive Agriculture and Environmental Quality: Examining the Newest Agricultural Myth (Henry A. ed n'Aicaralced al. sadagiri otvuluc ed saerjA ne ogeir ed auga y soleus ed n'Acaiznilas y ,acig/Alloib dadivtica y auga ed n'Aicneter ed dadicpac ,oleus led acin/Agro airetam ed adidrAP ,oleus led n'Aicacitapmoc :atsepuc laicifrepus apac al ed auga le y otniev led n'Aisore al a esrebed eudep oleus led dadivtudorp al ed n'Aiciminsid al :etneugis ol neulcini selautca sacitc/Arp sal ed sovitagens sotfese sol. secti CARP ed otricserp otunojuc nu a ereifer es on elbnetos arulucirga al.")2991 ,51-1 oinuj ,oriana) ed oAR ne laidnu orof (GNO sal ed elbnetoS arulucirga ed edonafT led nos sotarce sotsEi " odnum le odot ed serolucirga selbaremuni rop solgis sol ed ogral ol a adalunua laioicidart aRudibas al razalpsed ed ragul ne rarojem arap anredom acinec al ed saedi sal aziliza y acinednepedretni e dadisrevid ed socijAloce sopicnirP le atepes elbnetos arulucirga al. 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NAL Call # S494.5.S86S87) "Sustainable agriculture does not mean a return to either the low yields or poor farmers that characterized the 19th century. (10/20/09) "Today, sustainable farming practices commonly include: crop rotations that mitigate weeds, disease, insect and other pest problems; provide alternative sources of soil nitrogen; reduce soil erosion; and reduce risk of water contamination by agricultural chemicals pest control strategies that are not harmful to natural systems, farmers, their neighbors, or consumers. Aspinell, Pesticides Industry Sales and Usage: 1994 and 1995 Market Estimates (U.S. EPA, 1997). U.S. consumers have come to expect abundant and inexpensive food. 13, 1996) If advocating the need for a sustainable agriculture has become universal, agreement as to what is required to achieve it has not. Wayne A. Ecological Concerns Agriculture profoundly affects many ecological systems. 1999) ,A Marty Strange, Family Farming: A New Economic Vision (University of Nebraska Press, 1988). Edward Groth III, Charles M. Introduction and Chapters 1 and 2. Greene, and Karen Russ, Farming on the Edge (American Farmland Trust, 1997). This poses serious difficulties for the practical application of sustainability as an objective in real decision making. Farmers have little control over farm prices, and they continue to receive a smaller and smaller portion of consumer dollars spent on agricultural products. Morrissey and John R. Other environmental ills include over 400 insects and mite pests and more than 70 fungal pathogens that have become resistant to one or more pesticides; stresses on pollinator and other beneficial species through pesticide use; loss of wetlands and wildlife habitat; and reduced genetic diversity due to reliance on genetic uniformity in most crops and livestock breeds. On-going dialog is important for another reason: with more parties, each with its own "ten" of sustainable agriculture ", only a continuous approach on topics and the real objectives will maintain sustainable agriculture to become everything that covers to become meaningless. SPECIAL THANKS Go to Rebecca Thompson for Correction Conversion HTML. However, in many regions of the country, and for many crops, the particular combination of methods that will allow the use of chemicals agricultural damages or the diversity of crops, while providing A © Economic Xito, still are not clear. Under that law, "Sustainable agriculture tall means an integrated system of plant production practices that has a specific application of the site that, in the long term: satisfy the needs of food and human fibers; Improve environmental quality and the natural resource base on which the agricultural economy depends; Perform the most efficient use of non-renewable resources and resources on the farm and integrate, when appropriate, cycles and natural biological controls; Hold the economic viability of agricultural operations; and improves the quality of life of farmers and society as an integer. [Subcaption: Findings, proposals and definitions. United States Code, Title 7, Chapter 64-Investigation Agriculture, Extension and teaching) Some background à How we have come to reconsider our production of food and fiber in terms of sustainability? The long-term viability of our current food production system is being questioned for many reasons. Ed. The system was foreseen in its sense More comprehensive, from the individual farm, the local ecosystem, and the communities affected by this system agriculture both locally and globally. A systems approach gives us the tools to explore the interconnections between agriculture and other aspects of our environment ". (Program of arulucirga arulucirga al arap avitan n'Aicategre sarto y selaciport seugob ed n'AicurtseD)elbnetos arulucirga al se ©AuqA ,)PERAS(ainrofiAc ed dadisrevinU al ed elbnetoS arulucirga ed n'AicacudeY y sol a argetni e selarur sedadimooC sal ecalotaf ,arreit al ne naczennam sanosrep siAm euq etmorp oIsE ,sagalp ed ojanem ed samargorp y oleus led dadililf ed samargorp ,oleus led n'Aicavresnoc ed selarutlic sacitc/Arp ,sedalidre y sodirAM ranocidre a rotudorp la nudova euq ojanem ed saigetartse etanidem argol eS ,alsrevortnoc atricn natneserp dadililbnetos al rargol y rymifed omAc erbos senoisid sal ,ograbme nis ,elbnetos arulucirga ed Avoisolf anu ed ovticarta led rasep A)8568S.5.494S # llac LAN ,beF ,reneE noitavresnoC retaW dna looS fo larucj ,>AesimorP sAAcArtilbaniatusS-A ne suhretseuD drachir rop odatic ,drokl nhjoj »A selonacac etnemlatneibma y sovitejpmoc etnemlaeromoc ,soiradlos etnemlaics ,sorsucur ed serodavresnoS res nebed ,etnatropmi nardesinoc euq ol erbos ametsid led sorbimeuq sarto y satsironi ,serotudorp sol a setnednutoc seajsnam Avine ,sarpomcos eht seOAvart A ,n'Aicareepoc us rop saicarg sahcuM ,anosrep omoc daditned us emfrinoc euq somidep eht ,otits ortseu ed odnatrfsid ruges ed nif le nO 'elbnetos res ogla edeupA , etnemadipAr nat aibmce euq odnum nu nE ,elbnetos se on odneach odatse nah euq ed acilipmi euq se-A ,etnega nu 'Acilipxe ,>Aelbnetos eicS odnauc avinsened a a enop es etneg al euq lapicnirp ol euq ogmopusA , ocitsAloh ocifAtneic euqofne nu ne asab es y adairopA etnemlarutuc ,atsuj etnemlaics ,elbaiv etnemacimAnoce ,anas etnemacimAloce se odnauc elbnetos se arulucirga al ,etnegru etnemlaicpease es ozalop ogral a airatnemila dadiruges al euq neach ,adued al ed agrac al y sotnemila ed senoiatropmi sednar sal ,acitAlop dadililbatseni al ,azerbop al ,n'Aicazilairtsudni adip/Ar al noc otnuj ,ocif/Argomede rotac le ,sesAp sose neE ,)9991 ed oiluj ed 32 ,NAP)8991 ni tekraM lacimehgorA ,S.U dna dirOw ,ecivreS setadpU)NAP(krowteN notica edicitepE " ,redanrevni notice ed sesag sorto y onobracc ed odixAid ed sodavele selevin sol ne lelap nu eneit Humans in their surroundings. And that is the biggest problem " [Judy Green, A Sustainable agriculture: Why green ideas raise a red flag ", Bulletin of agricultural alternatives (Cornell) (Cornell) 1993). More recently, I have come to the conclusion that we can never have a generally accepted definition of sustainability, and perhaps, we do not need one. [John Ikard, not to define sustainability (Sanet-Mg Post, May 1998).] "The adoption "is extremely important and practically inverted. Pajano, Gordon L. Miller, and Gar House, Editors, Sustainable Agricultural Systems (Society of Soil Conservation and Water, 1989). Possible adverse environmental impacts of agriculture and a greater incidence of foodborne diseases also require our attention. Margaret Reeves and Kristin Schafer, poison fields: California and pesticide agricultural workers (Stock Network of Pesticides, 1999). Select Title 180, Part 407 - Sustainable agriculture; Subpart - general. The USDA will balance the objectives of the improvement of production and profitability, the administration of the Natural Resources Base and ecological systems, and the improvement of the vitality of rural communities. Less than two percent of Americans now produce food for all citizens of the United States. When considering these concerns, keep in mind the following: a) Interactions between agricultural systems and soil, water, biota and atmosphere are complex, we have a lot to learn about the dynamics and long-term impacts; b) most of the environmental problems are intertwined with the economic, social and political forces external to agriculture; c) Some problems are global in reach, while others are experienced locally; d) Many of these problems are being addressed through conventional agricultural channels, as well as alternatives; e) The list is not complete; and f) no important order is intended. What do we want to hold? "The best way to communicate the meaning of sustainable agriculture is of real life stories of farmers who are developing sustainable agricultural systems in their own farms. "says John Ikard, which describes the 1,000 forms of sustainable agriculture projects financed by Sustainable USDA Agriculture and Education Program. Pub. That is why there has been no success in attempt to identify THE definition of sustainability. They also disagree on whether sustainable agriculture needs defining at all. Inherent in this definition is the idea that sustainability must be extended not only globally, but indefinitely in time, and to all living organisms including humans. This just-do-it attitude is the real force carrying the issue of sustainability into the next century. Food cost and nutritional quality have always influenced consumer choices. Although certainly not mainstream at this point, sustainable agriculture is now being addressed by the agricultural community in significant ways. Eutrophication and "dead zones" due to nutrient runoff affect many rivers, lakes, and oceans. "Environmental sustainability implies the following: meeting the basic needs of all peoples, and giving this priority over meeting the greeds of a few keeping population densities, if possible, below the carrying capacity of the region adjusting consumption patterns and the design and management of systems to permit the renewal of renewable resources conserving, recycling, and establishing priorities for the use of nonrenewable resources keeping environmental impact below the level required to allow the systems affected to recover and continue to evolve. Raymond Forney, A Common Vision: Evaluating the Farming Industry's Progress Toward Sustainability (Dupont/Chesapeake Farms, 1998). (SARE, 2005.) Critical discussion of the sustainable agriculture concept will and should continue. NAL Call # S605.5.A3) Gleissman, "An Ecological Definition of Sustainable Agriculture," Principles of Agroecology and Sustainability (1998). "Consumers can play a critical role in creating a sustainable food system. Philosophical Considerations Historically, farming played an important role in our development and identity as a nation. "Sustainable resources available, appropriate and affordable technologies and minimizes the use of external and purchased inputs, increasing local independence and self-sufficiency and ensuring a stable source of income for farmers, families and small farmers and rural communities. They are extracted from the resources compiled at the end of this chapter. The word "support", from the Latin Sustinere (SUS, from below and Teneor, to keep), to stay in existence or to keep, implies long-term support or permanence. J. Sustainable agriculture: the basics Some terms defintion. "This approach covers the whole farm, relying on the expertise of farmers, interdisciplinary teams of scientists and specialists from the public and private sectors." (Paul F. At the same time, the new policies and institution must be created to allow producers who use sustainable practices to market their products to a wider audience." [University of California's Sustainable Agriculture Research and Education Program (SAREP), What is Agriculture Sustainable? Usually, it accepts the predominant goals within society without question, and aims to solve problems by means of a curative solution. As it pertains to agriculture, sustainable describes agricultural systems that are "able to maintain their productivity and usefulness to society indefinitely. Chapters 1-6 and Chapter 38, Justus, Congressional Research Service Problem for Congress, 89 005: Global Climate Change (CRS and the Committee for the National Institute for the Environment, May 1999). Sustainability has become an integral component of many government, commercial and non-profit agricultural research efforts, and is starting to be woven into agricultural policy. This contributes to disintegration of rural communities and localized marketing systems. So the tent of SUS AG is now relatively stable; Its shape and entrails may be completely pleasing to anyone, but I'm sure there are eht ni ynaM tpeocC erulucirga elbaniatusS eht fo erutuf eht) 8568S.5.494S: # llac LAN) 8791 ,htraE eht fo sdniefF ,airetric evohs eht fo vitropidus dna hitw elbitapmoc si taht eno si erulucirga elbaniatus ytilatnemnorve nA ") 9991 ,stisneicS demrecoC ,fo noinU (noisiv weN AA A A e erulucirga elbaniatusS ni " ,erulucirga elbaniatusS tuoba snoitseuQ deksA yltneueqerF) " ,sdnehp erulucirga hcihw no secruosere eht gnimrednu tuohitv stufior mraf dna slevia eht niatnua nact taht hcaorpA detacitshpos a gnitpoda ,stnemeveica larulucirga trernuc no sldiub ytilibanaiats ,rehtaR ,senicidem dna srebif ,sdoof ytilaugh hgh fo smorf esrevid setudorp erulucirga elbaniatusS ,ytsaP ytisrevinU etatS avoel: semA (srotide ,rendraM ,colifnoc semitemos metys gnimraf elbaniatusS a ni elbatpecca ton rop elbatpecca era Stnemeveica htraE OT SA Snoiticmoo Rieht ,meht FO ENO EMOCEB SAH "ERUTLUCIRGA ELBANAIATUS" ,SNOISICED GNIPPOCS NI DEREDISNOC OSLA ERA SEUSSI YTIUQE LAICOS DNA ,ESU ECRUOSE r ,ytilaugh ytilatnemnorvine taht os ,sevitepsrep remusnoc nedoarb taht seigetarts dnif of si won egnellahc eht ,seirtnuoc gnipoleved ynam ni hgh yllacpease si esaserci noitalupop fo etar eht "sesirpnetnoe nro rieht otni sehaocirga evitavonni dna detargetni gnitarpocni ,ytilibanaiatusS of shtap two rieht no dekrabme evah srehanr dna sremraf fo srebmun gnisacercl ,sesag esuohneqr rop skins ro secruos eb yam silos taht dnuof evah seiduts tneecR ,gnimra lairtsudni hitw detaicosa ytnuob eht hitw emoc evah sceneguesnoc evitagen dna evitsoip hitoB) 5991 85P 144S # llac LAN ,mret sht ol dekolof evah erulucirga ni snoitaziradni vek yhw dnatsrednu of ysae SA A A e I "sevitepsrep fo gnilmatsA A ,yrtnuoc of yrtnuoc morf dna mraf of mraf morf yrav smetys gnimraf lanoitnevnoC AJA A e gnola lla neeb evah dna ,ereht tuo ERA TAHT SECNREFFED EHT YLPSIRC EROM TNEMUCOD YLPMIS LLIW EW ESUACBE EROMYNA STNIOP ENIF EHT GNITABED NI TNIOIP LAER community have adopted the sense of urgency and direction pointed to by the sustainable agriculture concept. National Water Quality Assessment, pesticide National Synthesis Project, U.S. Geological Survey, Pesticides in Ground Water (USGS Fact Sheet FS-244-95), Pesticides in Surface Waters (USGS Fact Sheet FS-939-97), and Pesticides in the Atmosphere (USGS Fact Sheet FS-152-95). Resources cited above: AA AA AA AA AA AA Clive A. Francis, "Sustainable Agriculture: Myths and Realities," Journal of Sustainable Agriculture (1990) 1(1): p.97. Ann Sorensen, Richard P. Tracy Irwin Hewitt and Katherine R. Can sustainable and equitable food production be established when most consumers have so little connection to the natural processes that produce their food? How can we implement such a nebulous goal? Question 1 (To What Extent is Nitrate-N Found in U.S. Waters), Executive Summary. It consists of a set of concepts which are fundamentally different in nature. Farms and Land in Farms (USDA National Agricultural Statistics Service, Feb. Instead, it challenges producers to think about the long-term implications of practices and the broad interactions and dynamics of agricultural systems. 1995.) "I concluded some time ago that we didneAAAt need to spend much more time and effort attempting to define sustainability. (SAREP, 1998). "eAAAI I think the community has reached about as explicit, useful, concrete a definition of sus ag [sic] as now possible, or possible at any given time, given the differences of opinion, world view, etc., that exist. Reduced water quality impacts agricultural production, drinking water supplies, and fishery production. Finally, the challenge of defining and dealing with the problems associated with today's food production system is inherently laden with controversy and emotion. The news media regularly present us with the paradox of starvation amidst plentyAAAncluding pictures of hungry children juxtaposed supermarket ads. "Sustainable agriculture is a philosophy based on human goals and on understanding the long-term impact of our activities on the environment and on other species. Arnold L. Impacts on Human Health As with many industrial practices, potential health hazards are often tied to farming practices. What intrinsically American values have changed and will change with the decline of rural life and farmland ownership? "Sustainable agriculture preserves biodiversity, maintains soil fertility and water purity, conserves and improves the chemical, physical and biological qualities of the soil, recycles natural resources and conserves energy. "It is unfortunate, but true, that many in the agriculture community view sustainable agriculture as a personal criticism, or an attack, on conventional agriculture of which they are justifiably proud. The goal of achieving a sustainable planet, one that will accommodate the basic needs of its present inhabitants while preserving the resources that will enable future generations to flourish, has gained increasing acceptance. Executive Summary and Chapter 1. Pannell and Steven Schilizzi, "Sustainable Agriculture: A Matter of Ecology, Equity, Economic Efficiency or Experience?" Journal of Sustainable Agriculture (1999) 13(4): p.65. Under research and investigation currently is the sub-therapeutic use of antibiotics in animal production, and pesticide and nitrate contamination of water and food. The project sought to explore and refine the definition of sustainable agriculture by profiling successful sustainable farmers and ranchers." SARE continued the project, renaming it The New American Farmer. A key goal is to understand agriculture from an ecological perspectiveAAAn terms of nutrient and energy dynamics, and interactions among plants, animals, insects and other organisms in agroecosystemsAAAnthen balance it with profit, community and consumer needs." [Sustainable Investigation and Education (SARE), exploring sustainability in agriculture: ways to improve profits, protect the environment and improve the quality of life. (SARE, 1997).] Sustainable agriculture: an approach of complete food systems , feed and other fiber production that balances environmental strength, social equity and economic viability between all sectors of the public, including international and intergenerational peoples. (SAREP, 1998). Sandra Postel, Last Oasis: Facing the water SCity. Rev. The conservation of solid resources is an integral part of the means to achieve sustainable agriculture. "USDA Natural Resources Conservation Service (NRCS) General Manual (180 GM, part 407). Economically, it is very difficult for potential farmers to enter the business today. Deep sustainability, in contrast, Reserve the objectives in relation to the highest values and redesign the systems involved in achievement of these objectives that this can be done within the ecological limits. " [Ibid] Sustainable agriculture is "a way of practicing agriculture that seeks to optimize skills and technology to achieve long-term stability of the agricultural company, the protection of the environment and consumer safety. As you, S Parties are recorded in the effort of sustainable agriculture, perceptions on what defines sustainability in agriculture has multiplied. 1545) (USDA, 1998). He affirmed: "The USDA undertakes to work towards economic, environmental sustainability and social of various food, fiber, agriculture, forest and rank systems. The victimate of agriculture to global climate change is beginning to be appreciated. In the case of livestock, most production comes from confined and concentrated systems. At any time, in any society, the Of any concept as your AG is going to be a compromise between the different opinions of the world, the sets of values, etc. An analysis of the Government's data of the United States on pesticide residues in food (United States consumer union, consumer consumer 1999). [Note: Each term of this section is directly linked to its definition in the document «Related terms. / Agriculture Biodinamics Biointensive Garden / Mini-Agriculture BIOLOGICAL AGRICULTURE / AGRICULTURE ECOLOGICAL BIOTECHNOLOGY SUPPORTS Load capacity Agriculture Supported by the Community (CSA) Consumer BufferStrips Conservation conservation T Ecological footprint (HA) Ecological label Environmental indicators Agro-environmental indicators Externalities (agriculture) Conservation / Protection of GOOD SPRICKS AGRICULTURES (PAG) AGRICULTURE OF PASTE / HOLISTIC ESTANCE (HM) [Formerly Holical Resource Management (HRM)] Integrated Agricultural Systems (IFS) / Integrated Systems of Food and Agriculture (IFFS) / Integrated Pest Management (IPM) Biointe NSIVO IPM BIOLOGICAL CONTROL / BIOCONTROL Intensive / Controlled Grazing Systems Related terms: Rotational grazing, Intensive

