

References

- Allard, F., F. Cherqui, E. Wurtz and L. Mora. 2004. A methodology to assess the sustainability of rehabilitation projects in urban buildings. [Online] Available: www.costc16.org/downloads/WORKING/GROUP/3/AllardF/Sustainable/Rehabilitation/.pdf [November 12, 2005]
- Altieri, M. A. 1987. Agroecology: the scientific basis of alternative agriculture. Boulder: Westview press.
- Altieri, M. 2000. Developing sustainable agricultural systems for small farmers in Latin America. *Natural Resources Forum* 24, 97-105.
- Andriantiatsaholainaina L. A. and Y. A. Phllis, (2000). "S.A.F.E": Sustainability assessment by Fuzzy Evaluation, European Association of Environmental and Resource Economists (EAERE), Tenth Annual Conference, University of Crete, Department of Economics, Rethymnon, Greece, 30 June - 2 July.
- Bana e Costa, C. A. 1990. Readings in Multiple Criteria Decision Aid, Springer-Verlag, Berlin.
- Beus, C.E. and R.E. Dunlop. 1994. Agricultural paradigms and the practice of agriculture. *Rural Sociology* 59(4): 620–635.
- Biswas, M. R.1994. Agriculture and environment: a review, 1972-1992. *Ambio* (23): 192-197.
- Brink, B. J. E., S. H. Hosper and F. Colijn. 1991. A Quantitative Method for Description and Assessment of Ecosystems: The Amoeba Approach. *Marine Pollution Bulletin* (23): 265-270.
- Boland, H., and K. M. Cho.2002. Participatory Learning for Agricultural Extension and Development in Future Myanmar. [Online] Available: www.tropentag.de/2002/proceedings/node270.html [September 5, 2005]

- Buerkart, A., T. A. A. Naing., S. S. Thein., M. R. Finky. 2003. Rice-based cropping systems and possibilities for their improvement in Myanmar. [Online] Available: www.tropentag.de/2003/proceedings/node109.html. [1st October 2005]
- Conway, G. R. 1985. Agroecosystem analysis. *Agric. Admin.* (20): 31-55.
- Conway, G. R. 1990. Agriculture and the environment: concept and issues. In: S. Huq, A. Rahman and G.R. Conway, Editors, Environmental Aspects of Agricultural Development in Bangladesh, University Press Ltd, Dhaka.
- Campbell A. 1992. Landcare in Australia: taking the long view in tough times. National Soil Conservation Program, Canberra.
- Cornelissen, A.M.G., J. van den Berg., W. J. Koops., M. Grossman and H.M.J. Udo. 2000. Assessment of Sustainable Development: A Novel Approach Using Fuzzy Set Theory. [Online] Available <http://www.eur.nl/WebDOC/doc/erim/erimrs20000622134831.pdf> [23rd August 2002].
- Crosson, P. 1992. Sustainable agriculture. *Resources* (106):14-17.
- Department of Land Development (DLD). 1998. Framework of evaluation of sustainable land management a case study: Ban Pha Duea, Mae Fha Loung Districts, Chiangrai Province, Thailand.
- Driankov.D, H. Hellendoorn., and M. Reinfrank., 1996. An introduction to fuzzy control, 2nd eds. Springer-Verlag, New York.
- Duc, N. T. 2003. Assessment of sustainability of crop production systems at households and commune levels in mountainous area of Thua Thein Hue Province, Vietnam. M. S. Thesis, Chiang Mai University. Thailand.
- Edwards, C. A. 1989. The importance of integration in sustainable agricultural systems. *Agricultural Ecology and Environment*. (27): 25-35.
- FAO (Food and Agriculture Organization), 2000. Selected Indicators of Food and Agriculture Development in Asia-Pacific Region, 1989–99. RAP publication No. 2000/15.

- Fresco, L. O and S. B. Kroonenberg, 1992. Time and spatial scales in ecological sustainability. *Land use policy* (9): 155-168.
- Giampietro, M., and S.G.F. Bukkens. 1992. Sustainable development: scientific and ethical assessments. *J. Agric. Environ. Ethics* (5): 27-57.
- Giampietro M., and G. Pastore. 2000. "Operationalizing the concept of sustainability in Agriculture: characterizing Agroecosystems on a Multi-criteria, Multiple scale, performance space. Agroecosystem sustainability: Developing Practical strategies. 177-200.
- Giampietro M., and G. Pastore. 2004. Ecological approach to agricultural production and ecosystem theory: The Amoeba approach. [Online] Available: <http://www.ilri.cgiar.org/infoserv/webpub/fulldocs/Aesh/Ecologi.htm> (November 9, 2004)
- Gliessman, S. R. 1998. Agroecology: ecological processes in sustainable agriculture. Ann Arbor press, Michigan.
- Gowda, M.J.C. and K.M. Jayaramaiah. 1998. Comparative evaluation of rice production systems for their sustainability. *Agric. Ecosyst. Environ* (69): 1-9.
- Greenland, D. J. 1997. The Sustainability of Rice Farming. CAB International, New York.
- Hansen, J. W. 1996. Is agricultural sustainability a useful concept? *Agric. Systems* (50): 117-143.
- ILEIA (Institute for Low External Input Agriculture). 1991. Criteria for assessment. *Workshop proceedings, ILEIA Newsletter* 7 (3): 21-23.
- IUCN / IDRC (The World Conservation Union / International Development Research Center), 1995. Assessing progress towards sustainability: A new approach. In: Thadeus and Trzuna (Editors), *A sustainable world: Defining and measuring sustainable development*. Sacramento, 152-172.

- Jeganathan, C. 2003. Development of Fuzzy Logic Architecture to Assess the sustainability of the Forest Management. International Institute for Geo-information Science and Earth Observation Enchede, The Netherlands.
- Kaehler, S. D. 1998. Fuzzy Logic, an Introduction Part 1. [Online] Available www.seattlerobotics.org/encoder/mar98/fuz/fl_part1.html [November 12, 2005]
- Kanazawa, N. 1984. Trends and economic factors affecting organic matter in Japan. In: Organic Matter and Rice. IRRI. Los Banos, Philippines, 557-567.
- Kaufmann, R. K., Cleveland, C. J. 1995. Measuring sustainability: needed an interdisciplinary approach to an interdisciplinary concept. *Ecol. Econ.* (15): 109-112.
- Kay, R. D. and W.M. Edwards. 1999. Farm Management. Fourth Edition. Mc Graw-Hill Inc.
- Klir, G. J., T.A. Folger. 1988. Fuzzy sets, Uncertainty and Information. Prentice-Hall International Inc., new Jersy.
- Klir, G.J., B. Yuan. 1995. Fuzzy Sets and Fuzzy Logic. Theory and Application. Prentice-Hall PTR, New Jersey.
- Kosko, B. 1990. Fuzziness vs. probability. *Internat. J. General Systems* (17): 211-240.
- Kosko, B. 1992. Neural Networks and Fuzzy Systems. Prentice-Hall International Inc., New Jersey.
- Levine, O. M., and M. L. Bernson. 1989. Basic Business Statistics concepts and Applications., City University of Newyork, New Jersey.
- Lefroy, R. D. B., J. D. Winjhoud, and Y. Konboon. 2003. Nutrient budgets: sustainability assessment of rainfed lowland rice-based systems in northeast Thailand. *Agriculture, Ecosystems & Environment*, 100(2-3): 119-127.

- Lopez-Ridaura S., Masera O., and Astier M. 2002. Evaluating the sustainability of complex socio environmental systems. The MESMIS framework. *Ecological Indicators* (2): 135-148.
- Lynam, J.K. and R.W. Herdt. 1989. Sense and sustainability: sustainability as an objective in international agricultural research. *Agricultural Economics* (3): 381–398.
- McConnell, D. J. and J. L. Dillon. 1997. Farm Management for Asia: a systems approach. FAO, Rome.
- McNeill, D., and P. Freiberger. 1993. Fuzzy Logic. Simon and Schuster, New York.
- Ministry of Agriculture and Irrigation (MOAI), Myanmar. 2005. Myanmar Agriculture in Brief. MOAI, Yangon.
- Muller, S. 1997. Evaluating the sustainability of agriculture: the case of the Reventado River Watershed in Costa Rica. European University Studies, Series 5, Economics and Management Peter Lang, Germany.
- Munda, G., P. Nijkamp, and P. Rietveld. 1992. Multicriteria Evaluation and Fuzzy Set theory: Applications in planning for sustainability. Free University, Amsterdam.
- Munda, G., P. Nijkamp, and P. Rietveld. 1994. Qualitative multicriteria evaluation for environmental management. *Ecological Econ.* (10): 97-112.
- Nijkamp, P., and H. Voogd. 1990. Multicriteria Evaluation in Physical Planning. North-Holland, Amsterdam.
- O'Connell, P. F. 1991. Sustainable agriculture. In: Agriculture and the Environment: The 1991 Yearbook of Agriculture. US Government Printing Office, Washington, DC.
- Pedrycz, W. 1993. Fuzzy Control and Fuzzy Systems. Research Studies Press Ltd., Taunton, UK.

- Praneetvatakul, S., P. Janekarnkji, C. Potchanasin and K. Prayoonwong. 2001. Assessing the sustainability of agriculture: a case of Mae Chaem Catchment, northern Thailand. *Environment International* (27):103-109.
- Pretty, J. N. 1995. Regenerating Agriculture: Policies and Practice for Sustainability and Self-reliance. , Earthscan Publications Limited, London.
- Rasul, G., and G. B. Thapa. 2002. Sustainability of ecological and conventional agricultural systems in Bangladesh: an assessment based on environmental, economic and social perspectives. *Agricultural Systems* 79(3): 327-351.
- Sattar, M.A. and A.J.A. Mian.1999. Agrochemicals: their effects on crop yields and soil properties. Paper presented in a seminar of Soil Scientist Association on Land Degradation and Soil Pollution, 15–18 June, Dhaka.
- Smit, B., and J. Smithers. 1993. Sustainable agriculture: Interpretations analyses and prospects. *Canadian Journal of Regional Science* 16:499-524.
- Smit, B.; and J. Smithers. 1994. Sustainable agriculture and agroecosystem health. In O. Nielsen, ed. Agroecosystem Health; pp. 31-38. University of Guelph, Ontario.
- Smyth, A.J. and J. Dumanski. 1993. An International Framework for Evaluating Sustainable Land Management (FESLM). , FAO World Soil Resource Report No. 73, 74. FAO, Rome .
- Science Council of Canada. 1992. Sustainable Agriculture: The Research Challenge. Science Council of Canada, Ottawa.
- Thein, M.1994. Sustainable Agricultural Development Strategies of Myanmar. Paper presented to the Preparatory Expert Group Meeting on Sustainable Agricultural Development strategies for the Least Developed Countries. Bangkok.
- Thet, K. K. 2003. Rice and Sugarcane Acerage estimation on Yamethin District, using GIS and Remote Sensing technique. Master's thesis. Centre Space Science

Technology Education for Asia and the pacific (CSSTE/AP) affiliate by UN, India.

Tsourveloudis, N. C. and Phillis, Y. A. 1998. Fuzzy Assessment of Machine flexibility. *IEEE Trans. Manag.*, (45) 1: 78-87.

U. S. Department of Agriculture (USDA). (No date). Natural Resource Conservation Service (*NRCs*) *General Manual* (180 GM Part 4) [Online]. Available: <http://www.nrcs.usda.gov/national/gm/title180/part407/subparta/index.html> (September 1, 2004)

Van den Bergh, J. C. J. M. and P. Nijkamp. 1991. Operationalizing sustainable development: dynamic ecological economic models. *Ecological Econ.*,(4), 11-23.

Webster J. P. G.1997. Assessing the economic consequences of sustainability in agriculture. *Agric. Ecosyst. Environ.* (64): 95–102.

Wen, Q. 1984. Utilizing of organic materials in rice production in China. In: Organic Matter and Rice. IRRI. Los Banos, Philippines, pp 45-56.

Wikipedia, the free encyclopedia. [Online] Available: http://en.wikipedia.org/wiki/Main_Page

Wilson, K. and G. Morren. 1990. Systems Approaches for Improvement in Agriculture and Resource Management, Macmillan publishing Co., New York.

Yamethin District Agriculture Office. 2005. Report from Agriculture Sector. Report in District Peace and Development Council meeting, Yamethin, (In Myanmar language).

Yunlong, C. and B. Smith. 1994. Sustainability in agriculture: a general review. *Agric. Ecosyst. Environ.* (49): 299–307.

Zimmermann, H. J. 1996. Fuzzy Set Theory and its Applications. Kluwer Academic Publishers, Boston.