References

- Andreae, B. 1980. The Economics of Tropical Agriculture. Commonwealth Agricultural Bureau, Farnham. 178 p.
- Anderson, E.F. 1993. Plants and People of Golden Triangle: Ethnobotany of the hill tribes of Northern Thailand. Dioscorides Press. Oregon: Portland. 273p.
- Aronson, J., S. Dhillion, and E. Le Floc'h. 1995. On the need to select an ecosystem of reference, however imperfect: a reply to Pickett and Parker. Restoration Ecology 3: 1-3.
- Banerjee, A.K. 1995. Rehabilitation of Degraded Forest in Asia. World Bank Technical Paper Number 270. 43 p.
- Barrios, E., Buresh, R.J. and Sprent, J.I. 1996. Organic matter in soil particle size and density fractions from maize and legume cropping systems. Soil Biology and Biochemistry 28: 185-193.
- Beer, J. 1983. Research and development work by Costa Rican farmers: lessons for agroforesters. In: Moeller G.H. and Seal D.T., eds. Technology Transfer in Forestry. Pp 43-46. Forestry Commission Bulletin No. 61 London.
- Black, C. A. 1968. Soil-Plant Relationships. 2 nd Ed. John Wilay & Sons Inc.
- Boserup, E. 1965. The Conditions of Agriculture Growth: the Economics of Agriculture Change under Population Pressure. Chicago: Aldine 124 p.
- Brookfield, H. 2001. Exploring Agrodiversity. New Yokr: Columbia University Press. 348 p.
- Brookfield, H., Padoch, C., Parsons, H. and Stocking, M. 2002. Cultivating

- Biodiversity: Understanding, Analyzing and Using Agriculture Diversity.

 Intermediate Technology Development Group (ITDG). London. 292 p.
- Budowski, G. 1987. The development of agroforestry in Central America. In:

 Steppler, H. and Nair, P.K.R. eds. Agroforestry: A Decade of Development,

 pp 69-88. ICRAF, Nairobi, Kenya.
- Bue Paw. 2004. Rotational shifting cultivation in life cycle of Karen community.

 B.S.D. printing Co, Chiang Mai. 223 p.
- Cairns Jr, J. 1980. The Recovery Process in Damaged Ecosystems. Michigan: Ann Arbor Science. 167 p.
- CARE/INRC. 1995. Natural Resources Conservation Project: Sop Moei District, Mae
 Hong Son Province. Brief Report prepared for Project Advisory Committee

 (PAC) meeting. Bangkok: CARE international. 23 p.
- Chamber, R. 1992. Rural appraisal: rapid relaxed and participatory. IDS Discussion Paper 311. Brighton: International Development Studies, University of Susscre.
- Chansina, K., Chareonwatana, T., McArthur, H., Phonegntha, B. and Uehara, G.
 1991. The agroecosystem of Ban Semoun. In: Report of a workshop on
 Swidden Agroecosystems in Sepone District, Savannnakhet Province, Lao
 PDR. Khon Kaen: The SUAN Secretariat. Pp. 25-43.
- Chapman, E.C. 1967. An appraisal of recent agriculture changes in the northern valleys of Thailand. In: Proceedings of the National Conference on Agriculture Sciences. Sixth Session: Plant and Biological Sciences, Animal Sciences and Agriculture Economics. Pp 438-446. Bangkok: Kasetsart University.

- Chapman, E.C. 1978. Shifting cultivation and economic development in the lowlands of northern Thailand. In: Kunstadter P., Chapman E.C. and Sabhasri S. (Eds)

 Farmers in the Forest: Economic development and marginal agriculture in Northern Thailand. University Press of Hawaii, Honolulu, Pp. 222-235.
- Charley, J.L. and McGarity, J.W. 1978. Soil fertility problem in development of annual cropping on swiddened lowland terrain in Northern Thailand. In:

 Kunstadter, P., Chapman, E. C. and Sabhasri, S. (Eds.). Farmers in the Forest:

 Economic development and marginal agriculture in Northern Thailand.

 University Press of Hawaii, Honolulu. Pp. 236-254.
- Coffey, K. 2000. PLEC Agrodiversity Database Manual. Report for PLEC. United Nations University (available at www. unu.edu/env/plec)
- Conklin, H.C. 1957. Hanunoo agriculture: a report on an integral system of shifting cultivation in the Philippines. FAO Farming Development Paper No. 12. FAO. Rome.
- Conklin, H.C. 1961. A study of shifting cultivation. Current Anthropology 2: 27-61.
- Department of Land Development 1989. Master Plan for Developing the Highland of Northern Thailand. Bangkok: department of Land Development, Ministry of Agriculture and Cooperation. 55p.
- Dodd, J.C., Arias, I., Kooman, I. and Hayman, D.S. 1990. The management of population of vesicular arbuscular mycorrhizal fungi in acid infertile soil of a savanna ecosystem II. The effects of pre crops on the spore populations of native and introduced VAM fungi. Plant and Soil. 122: 241-248.
- Douds, D.D. and Schenck, N.C. 1990. Cryopreservation of spores of vesicular-arbuscular mycorrhizal fungi. New Phytol 115: 667-674.

- Enters, T. 1996. The token line: adoption and non-adoption of soil conservation practices in the highlands of Northern Thailand. In: S. Sombatpanit, M. A. Zobisch, D.W. Saunders and M. G. Cook. (Eds.). Soil conservation Extension: From Concepts to Adoption. Bangkok: Soil and Water Conservation Society of Thailand. Pp 417-427.
- FAO 2006. FAOSTATS. www.fao.org
- Ganjanaphan, A., Laungaramsri, P., Jatuworaphrek, T., Hengsuwan, P.,
 Rakyuthitham, A. Amprasert, V., Natapulwatana, S., Chamroenphrek, M.,
 Suthornhao, P., and Onphrom, S. 2004. Rotational Agricultural Systems:
 Situation and Change. Research Report. Faculty of Social Sciences. Chiang
 Mai University. 334 p.
- Gardner, S., Sidisunthorn, P. and Anusarnsunthorn, V. 2000. Forest Trees of Northern Thailand. Bangkok: Kobfai Publishing Project. 545 p.
- Grandstaff, T.B. 1980. Shifting cultivation in northern Thailand. Resource System

 Theory and Methodology Series 3. United Nations University, Tokyo.
- Greenland, D.J. 1975. Bringing the green revolution to the shifting cultivator. Science. 190: 841-844.
- Greenland, D.J. and Kowal, J.M.L. 1960. Nutrient content of the moist tropical forest of Ghana. Plant and Soil. 12: 154-175.
- Greenland, D.J. and Okigbo, B. N. 1983. Crop production under shifting cultivation and maintenance of soil fertility. In: Symposium on Potential Productivity of Filed Crops under Different Environments. Pp. 505-524. International Rice Resaech Institute. Los Banos: Philippines.
- Hairiah, K., M. van Noordwijk, and Palm, C. 1999. Methods for sampling above and

- below ground organic pool. In D. Murdiyarso, M. van Noordwijk, and D.A. Suyamto (Eds.). Modeling global change impacts on the soil environment, pp. 46-77. BIOTROP- GCTE/Impact for Southeast Asia (IC-SEA), Bogor, Indonesia.
- Harper, D.E. 1986. Sustainable Agriculture on Slopes: The effectiveness of international development projects in fostering soil conservation in northThailand. Ph. D. Dissertation. University of Hawaii. 469p.
- Harper, J.L. 1977. Population Biology of Plants. London: Acadamic Press. 892 p.
- Higgs, E.S. 1997. What is good ecological restoration? Conservation Biology 11: 338-348.
- Hinton, P. 1973. Population dynamics and dispersal trends among the Karen of
 Northern Thailand. In: R. Ho and E.C. Chapman. eds. Studies of
 Contemporary Thailand. Canberra: Australian National University Research
 School of Pacific Studies Department of Human Geography. Pp 235-252.
- Hinton, P. 1978. Declining production among sedentary swidden cultivation: the case of Pwo Karen. In P. Kunstadter, E.C. Chapman and S. Sabhasri (Eds.)

 Farmers in the Forest: Economic development and marginal agriculture in Northern Thailand. University Press of Hawaii, Honolulu. Pp. 185-198.
- Hobbs, R. J. 1993. Can revegetation assist in the conservation of biodiversity in agriculture areas? Pacific Conservation Biology, 1:29-38.
- Hobbs, R.J. 2001. Current ideas and concepts in restoration ecology. In: a workshop on Regeneration Ecology and Management for Degraded landscapes and Forest Ecosystems. 10-16 February 2001. Multiple Cropping Centre, Chiang Mai University.

- Hobbs, R.J. and Hopkins, A.J.M. 1990. From frontier to fragments: European impact on Australia's vegetation. Proceedings of the Ecological Society of Australia, 16:93-114.
- Hobbs, R.J. and Norton, D.A. 1996. Towards a conceptual framework for restoration ecology. Restoration Ecology 4: 93-110.
- Hurni, H. with the assistance of on international group of contributions. 1996.

 Precious Earth: from Soil and Water Conservation to Sustainable Land

 Management. Berne: International Soil Conservation Organization (ISCO)

 and Centre for Development and Environment (CDE). 89 p.
- IBRAM. n.d. Towards Sustainable Land Management in the 21st Century. The IBRAM Vision Bangkok: International Board for Soil Research and Management. 18 p.
- ISTA (International Seed Testing Association). 1999. Biochemical test for viability. Seed Science Technology 27: 201-244.
- Izikowitz, K.G. 1951. Lamet-hill Peasants in French Indochina. Gothenburg: Elanders Bokteryckeri Aktiebolag.
- Jackson, M. L. 1967. Soil Chemistry Analysis. Prentice-Hall of India Private Limited. New Delhi. 498 p.
- Kass, D.C.L., Foletti, C., Szott, L.T., Landaverde, R., and Nolasco, R. 1993.Traditional fallow systems of the Americas. Agroforestry Systems 23: 207-218.
- Kaya, B. and Nair, P.K.R. 2001. Soil fertility and crop yield under improved-fallow system in southern Mali. Agroforestry Systems 52: 1-11.
- Keen, F.G.B. 1978. Ecological relationships in a Hmong (Meo) economy. In

- Kunstadter, P., Chapman, E. and Sabhasri, S. (Eds.). Farmers in the Forests: Economic development and marginal agriculture in Northern Thailand.

 University Press of Hawaii, Honolulu. Pp. 210-221.
- Kerby, J., Elliot, S., Maxwell, J.F., Blakesley, D. and Anusarnsunthorn, V. 2000.
 Tree, Seeds and Seedlings for Restoring Forest in Northern Thailand. The
 Forest Restoration Unit. Biology Department, Science Faculty, Chiang Mai
 University. 151p.
- Khuenkaew, S. 1998. The Salween chainsaw massacre. Bangkok Post. 25 January 1998. Perspective. p 5.
- Koutika, L.S., Sanginga, N., Vanlauwe, B., Weise, S., 2002. Chemical properties and soil organic matter assessment under fallow systems in the forest margins benchmark. Soil Biology and Biochemistry 34: 757-765.
- Kunstadter, P. 1978. Subsistence agriculture economics of Lua and Karen Hill
 farmers' Mae sarieng District, Northwesthen Thailand. In: Kunstadter, P.,
 Chapman, E. C. and Sabhasri, S. (Eds.). Farmers in the Forest: Economic
 development and marginal agriculture in Northern Thailand. University Press
 of Hawaii, Honolulu. Pp.71-133.
- Kunstadter, P. and Chapman, E. C. 1978. Problems of shifting cultivation and economic development in northern Thailand. In: Kunstadter, P., Chapman, E.
 C. and Sabhasri, S. (Eds.). Farmers in the Forest: Economic development and marginal agriculture in Northern Thailand. University Press of Hawaii, Honolulu. Pp. 3-23.
- Kunstadter, P., Chapman, E.C. and Sabhasri, S. 1978. Farmers in the Forest:

- Economic development and marginal agriculture in Northern Thailand.

 Honolulu: University Press of Hawaii for the East-West Center. 402p.
- Kwesiga, F. and Coe, R. 1994. The effect of short rotation Sesbania sesban planted fallow on maize yield. For Ecol Mgt 64:199-208.
- Laungaramsri, P. 2001. Refining Nature, Karen ecological knowledge and the challenge to the modern conservation paradigms. Chennai: Earthworm Books. 257 p.
- Lovelace, G. W. 1991. Research on swidden agriculture in Sepone district. In: Report of the 1991 SUAN-EAPI-MAF Agroecosystem Research Workshop on Swidden Agroecosystems in Sepone Distret, Savannakhet Provice, Lao PDR. Pp. 3-10. Khon Kaen: The SUAN Secretariat.
- Mafongoya, P.L. and Nair, P.K.R. 1997. Multipurpose tree pruning as a source of nitrogen to maize under semiarid condition in Zimbabwe. Part 1 Nitrogen-recovery rates as influenced by pruning quality and methods of application. Agroforesty System 35: 31-46.
- Magurran, M.E., 1988. Ecological Diversity and its Measurement. Princeton University Press, New Jersey.
- Marschner, H. and Dell, B. 1994. Nutrient uptake in mycorrhizal symbiosis. Plant and Soil. 134: 1-20.
- McCracken, J.A., Pretty, J.N. and Conway, R. 1987. An introduction to rapid rural appraisal for agriculture development. London: International Institute for Environment and Development.
- McKinnon, J. and Bhruksasri, W. 1983. Highlanders of Northern Thailand.

 KualaLumpur: Oxford University Press.

- Morton, S.R., Stafford Smith, D.M., Friedel, M.H., Griffin, G.F. and Pickup, G. 1995.

 The stewardship of arid Australia; ecology and landscape management.

 Journal of Environmental Management 43: 195-217.
- Myers, R.J.K., Palm, C.A., Cuevas, E., Gunatilleke, I.U.N., Brossard, M., 1994. The synchronization of nutrient mineralization and plant nutrient demand. In:

 Woomer, P. L., Swift, J. (Eds.). The Biological Management of Tropical Soil Fertility. Pp. 81-115. Wiley, Chichester.
- NRC 1987. Hilltribe Survey 1987. Bangkok: National Research Council
- Nakabutara, A. and Rerkasem, K. 1992. Highland Resources Integration Project. Final evaluation report submitted to CARE/international, Thailand. 38 p.
- Nakano, K. 1978. An ecological study of swidden agriculture at a village in northern Thailand. South East Asian Studies 16:411-446.
- Noss, R.F. and Cooperrider, A.Y. 1994. Saving Nature's Legacy: Protecting and Restoring Biodiversity Island Press, Washington, D.C.
- NSC, 2004. Statistical Yearbook 2003. National Statistical Center. Vientiane. 144 p.
- Nye, P.H. and Greenland, D.J. 1960. The Soil under Shifting Cultivation.

 Common Wealth Agricultural Bureaux, Farnham Royal. Buchs, England.

 156p.
- Nye, P.H. and Greenland, D.J. 1964. Changes in the soil after clearing tropical forest.

 Plant and Soil 21: 101-112.
- Nye, P.H. and Stephens, D. 1962. Soil Fertility. In: Wills, J. B. Agriculture and Land Use in Ghana, pp 127-143. Oxford University Press, London.
- ONCB-UNFDAC. 1983. A Master Plan for Opium Poppy Cultivation Regions of

- Thailand. Office of the Narcotic Control Board and the United Nations Fund for Drug Abuse Control. Bangkok.
- Ovington, J. D. 1962. Quantitative ecology and the wood land ecosystems concept.

 Advances in Ecological Research 1: 103-192.
- Padoch, C. and De Jong, W. 1987. Traditional agroforestry practices of native and rib ereno farmers in the lowland Peruvian Amazon. In: Gholz, H. (Eds).

 Agroforestry, Realities, Possibilities, and Potentials. Pp 179-194. Martinus Nijhoff, Dordrecht, Netherlands.
- Penth, H. 2000. The brief history of Lan Na civilization of north Thailand.

 Chiangmai: Silkworm Press. 88 p.
- Peters, J. (ed.) 2000. Tetrazolium Testing Handbook. Contribution No. 29 to the Handbook on Seed Testing revised 2000.
- Pickett, S. T. A., and Parker, V. T. 1994. Avoiding the old pitfalls: opportunities in a new discipline. Restoration Ecology 2: 75-79.
- Power, L. E. and McSorley, R. 2000. Ecological Principles of Agriculture.

 Thomson Learning, Delmar. 433p.
- Pretty, J.N. 1995. Regenerating Agriculture: Policies and Practices for sustainability and self-reliance. Washington D.C.: Joseph Henry Press. 320 p.
- Raintree, J.B. and Warner, K. 1986. Agroforestry pathways for intensification of shifting agriculture. Agroforestry Systems 4: 39-54.
- Ramakrishnan, P.S.1984. The science behind rotational bush fallow agriculture system (jhum). Proceeding Indian Academy of Science (Plant Science) 93: 379-400.
- Ramakrishnan, P.S. and Saxena, K.G. 2005. Fallow management under shifting

- agriculture in North-Eastern India. In Soil Biodiversity, Ecological Processes and Landscape Management. Pp. 229-238. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- Rambo, A. T. 1990. Shifting cultivation as a problem in human ecology. In: K.

 Gillogly (Eds.). Two Upland Agroecosystems in Luang Prabang Province,

 Loa PDR: A Preliminary Analysis. Pp. 178-184. Khon Kaen: The SUAN

 Secretariat.
- Rerkasem, K. 2000. Chiang Mai Activity 1999-2000. UNU-PLEC Annual Report.

 Chiang Mai University. 52 p.
- Rerkasem, K. 2001a. Farmers' management of fallow succession in Thailand. In Proceedings of on International symposium on Managing Biodiversity in Agricultural Ecosystems. Organized by United Nations University, Secretarict of the Conservation on Biodiversity and International Plant Genetic Resource Institute. 8-10 November 2001. Montreal, Canada. Tokyo: United National University (CD Rom)
- Rerkasem, K. 2001b. Vegetation management by forest farmers in mountain mainland Southeast Asia. CMUPN lab Working Paper 1: 53-80.
- Rerkasem, K. 2002. With contribution by N. Yimyam, C. Korsamphan, C. Thongngam, S. Thepsarn and P. Kaewpha 2002. PLEC/ Thailand Report for 1999-2002. Report submitted to the United National University. Chiang Mai University. 24 p.
- Rerkasem, K. 2003. Upland land use. In M. Kaosa-ard and J. Dore (eds.) Social Challenged for the Mekong Region. Pp. 323-346. Bangkok: White Lotus.
- Rerkasem, K., Yimyam, N., Korsamphan, C., Thongngam, C. and Rerkasem, B. 2002.

- Agrodiversity Lessons in Mountain Land Management. Mountain Research and Development. 22(1): 4-9.
- Rerkasem, K. and Rerkasem, B. 1994. Shifting Cultivation in Thailand: Its current situation and dynamics in the context of highland development. IIED Forestry and Land Use Series No. 4. 140p.
- Rerkasem, K. and Rerkasem, B.1995. Mountain mainland Southeast Asia:

 Agroecosystem in transition. Global Environment Change 5: 313-322.
- Reuter D.J., Edwards D.G. and Wilhelm N.S. 1997. Temperate and tropical crops.

 Plant Analysis, an Interpretation Manual. CSIRO: 81–285.
- Ruddle, K. 1974. The Yukpa cultivation system. A Study of Shifting Cultivation in Columbia and Venezuela. Berkley: University of California Press. 197 p.
- Ruthenberg, H. 1971. Farming System in the Tropics. London: Clarendon Press. 2nd Edition. Oxford University. 366 p.
- Russell, E.W., 1973. Soil Conditions and Plant Growth. Tenth ed. Longman, London.
- Sabhasri S. 1978. Effects of forest fallow cultivation on forest production and soil.

 In: Kunstadter P., Chapman E.C. and Sabhasri S. (Eds). Farmers in the Forest:

 University Press of Hawaii, Honolulu, pp. 160–184.
- Saito K, B. Linquist, G.N. Atlin, K. Phanthaboon, T. Shiraiwa, T. Horie. 2006.
 Response of traditional and improved upland rice cultivars to N and P fertiliser in northern Laos. Field Crop Research. In press.
- Sanchez, P.A. 1976. Properties and management of soil in the tropics. New York: John Wiley & Sons. 618p.
- Sanchez, P.A., and Miller, R.H., 1986. Organic matter and soil fertility management

- in acid soil of the tropics. International Society of Soil Science Transaction,
 Thirteenth Congress, Pp 609-625.
- Santasombat, Y. 1998. Biodiversity and Indigenous Knowledge for sustainable

 Development. Regional Center for Social Science and Sustainable

 Development (RCSD). Faculty of Social science. Chiang Mai University.

 300p.
- Santasombat, Y. 2003. Biodiversity: Local knowledge and sustainable development.

 Chiangmai: Within Design Co. for Regional Center for Social Science and

 Sustainable Development, Chiang Mai University. 247p.
- Santisuk, T.1988. An account of the vegetation of Northern Thailand. Geoecological Research. Vol. 5 Stuttgart: Steiner-Verl. Wiesbaden. 101p.
- Schmidt-Vogt, D. 1995. Swidden farming and secondary vegetation: two case studies from northern Thailand. In: J. Rigg (Ed.) Counting the Cost: Economic Growth and Environmental Change in Thailand. ISEAS Environment and Development Science. Chapter 3. pp 47-64. Singapore: Institute of Southeast Asian Studies (ISEAS).
- Schmidt-Vogt, D. 1999. Swidden farming and fallow vegetation in Northern

 Thailand. Geoecological Research Volume 8. Franz Steiner Verlag. Stuttgart.
- Schmidt-Vogt, D. 2001. Secondary forests in swidden agriculture in highlands of Thailand. Journal of Tropical Forest Science 13(4): 748-767.
- Sirabanchongkran, A., Yimyam, N., Boonma, W., Rerkasem, K., Coffey, K., Pinedo-Vasquez, M. and Padoch, C. 2004. Varietal turnover and seed exchange: implication for conservation of rice genetic diversity on-farm. IRRN Notes 29.2/: 12-14.

- Smith, S.E. and Read, D.J. 1997. Mycorrhizal Symbiosis. 2nd ed. Academic Press. London.
- Spencer, J. E. 1966. Shifting Cultivation in Southeast Asia. University of California Publications in Geography, Volume 19.
- Sutthi, C. 1995. Swidden crops germplasms on highlands of Thailand. Chiang Mai Tribal Research Institute. 111 p.
- Sutthi, C. 1996. The knowledge of slash and burn agriculture on highland area.

 Chiang Mai: Tribal Research Institute. 219p.
- Sutthi, C. 1989. Highland agriculture: From Better to Worse. In: J. McKinnon and B. Vienne (Eds.). Pp. 107-142. Hill Tribes Today.
- Swift, M.J., and Sanchez, P.A., 1984. Biological management of tropical soil fertility for sustainable productivity. Nature and Resource 20, 1-10.
- Tan-Kim-Yong, U. 1990. Participatory land use planning as a sociological methodology for natural resource management. Paper presented at International Workshop on Community Forestry. Nagoya, Japan. 50p.
- Tarawali, G. 1991. Effect of stylosanthes fodder banks on grain yield of maize. Trop. Grass. 25: 26-31.
- Taylor, J. and Harrier, L.A. 2001. A comparison of development and mineral nutrition of micropropagated *Fragariax ananassa* cv. Elira (strawberry) when colonized by nine species of arbuscular michorrhizal fungi. Appl. Soil Ecol. 18: 205-215.
- Thrupp, L.A., Hecht, S.R., Browder, J.O. with Lynch, O.J., Megateli and O'Bisen, W. 1997. The diversity and dynamics of shifting cultivation: Myths, Realities, and Policy Implications. World Resources Institute, Washington D.C. 48 p.

- Trenbath, B. R. 1984. Decline of soil fertility and the collapse of shifting cultivation systems under intensification. In: The Tropical Rain Forest: The Leeds

 Symposium, edited by A.C. Chadwick and S.L. Suttun. Pp. 279-292. UK:

 Leeds Philosophical and Literary Society.
- Trenbath, B. R., Conway, G. R. and Craig, I. 1990. Threats to sustainability in intensified agriculture systems: Analysis and implications for management. In:
 S. R. Gliessman (Ed.) Agroecology: Researching the Ecological Basis of Sustainable Agriculture. Pp. 337-366. New York: Springer-Verlag.
- Unruh, J.D. 1990. Iterative increases of economic tree species in managed swidden fallow of the Amazon. Agroforestry Systems 11: 175-197.
- Van Keer, K. Trebuil, G. and Goze, E. 2000. Identifying and grading limiting factor of upland rice yields in farmers' field of Northern Thailand. Int. Rice Res. Notes 25: 31-33.
- Van Keer K and Trebuil G. 2006. On-farm crop diagnosis of upland rice yield in Northern Thailand. www.ricethailand.org.
- Wanatabe, F.S. and Olsen S.R. 1962. Colorimetric determination of phosphorus in water extracts of soil. Soil Science 93: 183–188.
- Wangpakapattanawong, P. 2001. Ecological studies of reduced forest-fallow shifting cultivation of Karen people in Mae Chaem watershed, Northern Thailand, and Implication for sustainability. Ph.D. thesis. The University of British Columbia. 234p.
- Warner, K. 1991. Shifting cultivation: local technical knowledge and natural resource management in the humid tropics. Community Forestry Note 8. FAO. Rome. 80 p.

- Whitmore, T. C. 1982. On pattern and process in forest. In: E. I. Newman (Ed.) The Plant Community as Working Mechanism: Special Publication of the British Ecological Society Produced to a Tribute to A. S. Watt. Pp. 45-59. Oxford: Blackwell Scientific Publication.
- Woomer, P.L., and Ingram, J.S.I., 1990. The Biology and Fertility of Tropical Soil:

 The Tropical Soil Biology and Fertility report. Nairobi, Kenya.
- Woomer, P.L., Martin, A., Albrecht, A., Resch, D.V.S. and Scharpenseel, H.W.

 1994. The importance and management of soil organic matter in the tropical.

 In: Woomer, P.L., Swift, J. (Eds.). The Biological Management of Soil

 Fertility. Pp. 47-80. Wiley, Chi Chester.
- Young, G. 1961. The Hill Tribes of Northern Thailand: A Socio-Ethnological Report.

 Monograph No. 1. Bangkok: The Siam Society.
- Young, T.P. 2000. Restoration ecology and conservation biology. Biology Conservation 92: 73-83.
- Youpensuk, S. and Lumyong, S., Bernie, D. and Rerkasem, B. 2004. Arbuscular mycorrhizal fungi in the rhizosphere of *Macaranga denticulata* Muell. Arg., and their effect on the host plant. Agroforesty System. 60: 239-246.
- Zinke, P. J., Sabhasri, S. and Kunstadter, P. 1978. Soil fertility aspects of the Lua forest fallow system of shifting cultivation. In: Kunstadter, P., Chapman, E. C. and Sabhasri, S. (Eds.). Farmers in the Forest: Economic development and marginal agriculture in Northern Thailand. University Press of Hawaii, Honolulu. Pp 134-159.