LITERATURE CITED

- Adhikari, R.N.S., M.S.Chittaranjan, R. M. Rao and V. Husenpaa. 2003.
 Hydrological Data Analysis for Black Soil Small Agricultural Catchment in
 Dry Land Zone of Karnataka. Indian Journal of Dryland Agricultural
 Research and Development 18(1): 95-99.
- Black, P.E. 1991. Watershed Hydrology. Prentice Hall. Englewood Cliffs, New Jersey 07632.
- Boonywat, S. and S. Susanpoontong. 1996. Impacts of Land use change on water yield of Yom river Basin, pp 245-259. *In* N. Tangtham, S. Thammincha and L. Puangchit, eds. Proceedings of FORTROP'1996 International Conference on "Tropical Forestry in the 21st Century", Vol. 6: Watershed Management for the Future, Faculty of Forestry, Kasetsart University, Bangkok, Thailand.
- Bosch, J.M. 1979. Treatment effects on annual and dry period streamflow at Cathedral Peak. South African Forest Journal 108: 29–38.
- Brooks, K.N., F.F. Peter, M.G. Hans, and L.T. John. 1992. Hydrology and The Management of Watershed. Iowa State University Press, Ames–USA.
- Bruijnzeel, L.A. 1990. Hydrology of Moist Tropical Forests and Effects of
 Conversion: A State of Knowledge Review. UNESCO International
 Hydrological Programme. A Publication of the Humid Tropics Programme.
 Fac. of Earth Sciences, Free Univ., Amsterdam.
- Bruijnzeel, L.A. 2004. Hydrological Functions of Tropical Forests. Not Seeing the Soil for the Trees. Agriculture, Ecosystems and Environment 104 (185-228).
 Cited M. Jacobson. 2004. Water and Forests Reviewed. ISTF NEWS. 5400. 25 (4): 1-5.

- Calder, I. R. 1992. Hydrologic effects of land-use change. *In* D.R. Maidment, ed. **Handbook of Hydrology**.
- Calder, I.R. 1998. Water Resource and Land Use Issues, System Initiative on Water Management (SWIM) Paper 3. International Water Management Institute, Srilanka.
- Calder, I. R. 2004. Hydrology and Land Use Forests and Water Interactions.Case studies funded by DFID, IIED and World Bank. Paper presented at IIEDWorkshop, Charity Centre' London, January 2004.
- Chamroonrat, S. 1994. Water Balance after Watershed Rehabilitation at Sakaerat Research Station, Amphoe-Wang Nam Khiew, Changwat-Nakhon Ratchasima. M. S. Thesis. Kasetsart University, Bangkok.
- Chunkao, K. and N. Tangtham. 1972. Discharge in hill-evergreen forest due to heavy rainfall at Huai Kok Ma watershed, Doi Pui, Changwat, Chiangmai. Bul. No.
 8 Department of Conservation, Faculty of forestry, Kasetsart Univ. Bangkok.
- Chunkao, K. and P. Rakaniyatham. 1995. Land use and land cover change: Case Study in Thailand.
- Court, A. 1961. Larger Melt Water Flows Come Later. Pacific South-West Forest and Range Exp. Station, **Res. Note No.189**, 8 pp.

Court, A.1962. Measures of stream flow timing. Jour. Geophys. Res. 67: 4335-4339.

Department of Mineral resources. 1995. Geology map Geological Survey Division, Department of Mineral Resources, Bangkok.

- Department of Land Development. 1971. Soil map: Scale 1:50,000. Ministry of Agriculture and Co-operatives, Bangkok
- Dunne, G.L. and W. Dietrich. 1982. Sediment sources in Tropical Drainage Basin pp 41-55. *In* Soil Erosion and Conservation in Tropics. Amer. Soc. Agron. and Soil science Soc. Amer., 677 South Segeo Road, Madison, WI53711.
- Electric Generating Authority of Thailand. 1991. **Summary of the Result of Sediment Survey in the Reservoirs**. Meteorology and Hydrology Division, Survey and Ecology Department.
- Ekern, P.C. 1950. Raindrop impact as the force initiating soil erosion. Soil Sci. Soc. Amer., Proc. 15: 7-10.
- Elliison, W.D. 1947. Soil Erosion Studies : Soil detachment hazards by raindrop splash. **Agric. Eng.** 28: 197-201.
- FAO, 1998. Asia -Pacific Forestry Towards 2010. Report of the Asia-Pacific forestry sector outlook study, Asia-Pacific Forestry Commission, Forestry Policy And Planning Division, FAO, Rome. pp 65-200.
- Falletti, D.A.1977. Sediment Productions in Wild Land Environments: A review. In Soil Erosion: prediction and control. Spec. Publ. 21. West Lafayette, Soil Conservation Society of America. 393 p.
- Flaxaman, E.M.1975. The use of suspended sediment load measurements and equations for evaluation of sediment yield in the west. *In* Proceedings of Sediment Yield Workshop, USDA Sedimentation Laboratory, Oxford, Mississippi, Nov. 28-30, 1972, ARS-S-40 USDA June 1975, p 46.

- Fox, J.J., Krummel, S. Yarnasarn, M. Ekasingh and N. Podger. 1995. Land use and Landscape dynamics in Northern Thailand: Assessing change in three upland watersheds since 1954. Ambio 24 (6): 328-334.
- Glymph, L.M. 1975. Evolving emphasis on sediment yield prediction, pp 1-4.. In
 Present and Prospective Technology for Predicting Sediment Yields and
 Sources ARS-5. 40 Agr. Res. Serv. USDA. Washington D. C.
- Gleick, P. H. 1993. Water in crisis: A guide to the world's fresh water resources, Oxford University Press, Oxford.
- Gordon, N.D., T.A.McMahon, B.L.Finlayson, C.J.Gippel and R.J. Nathan,
 2004. Stream hydrology An Introduction for Ecologists. Second edition.
 John Wiley and Sons Ltd, Chichester, England.
- Henderson-Sellers, A., H. Jhang and W. Howe. 1996. Human and physical aspects of tropical deforestation, pp 259-260. *In* T.W. Giambelluca and A. Hendersonsellers, eds. Climate change; developing southern hemisphere perspectives. John Wiley and Sons, U. K.
- Hillel, D.1991. Out of the Earth: Civilization and the Life of the Soil, Univ. of California Press, Berkeley. CA. USA. 321 p.
- Holeman, J.N. 1975. Procedures used in the soil conservation service to estimate sediment yield, pp 5-9. *In* Present and Prospective Technology for Predicting Sediment Yields and Sources. ARS- 5-40 Agr. Serv. USDA, Washington, D. C.
- Hudson, N. 1995. Soil conservation, 2nd edition, Batsford, London. Cited: A. Wild.
 2003. Soils, land and food. Managing the land during the 21st century.
 Cambridge University Press UK.

- Huggett. R. J. 1993. Modeling the Human Impact on Nature: System analysis of Environmental Problems. Oxford University press. Oxford.
- Hughes, J.M. and B.James. 1989. A Hydrological Regionalization of Streams in
 Victoria, Australia, with implications for stream ecology. Australian Journal
 of Marine and Fresh Water Research 40: 303-326.
- Knighton, D. 1994. Fluvial Forms and Processes: A New Perspective. Oxford University Press, Oxford. Cited N.D. Gordon, T.A. McMahon, B.L.
 Finlayson, Gippel, C.J. and Nathan, R.J. 2004. Stream hydrology - An Introduction for Ecologists. Second edition. John Wiley and Sons Ltd, Chichester, England. pp 199-200.
- Laws, J.O. and D.A. Parson. 1943. The relationship of raindrop size to intensity. **Trans. Annex. Geoph. Union** 24: 452-459.
- Linsley, R.K., Kohler, H.A. and Paulhus, J.L.H. 1982. Hydrology for engineers and water quality. New York. Mc Graw-Hill: 412- 442. Chapter 15. Cited G.E. Dissmeyer, ed. Drinking Water from Forests and Grasslands A Synthesis of Scientific Literature. U.S. Department of Agriculture. SRS-39. North Carolina. pp 26-38.
- Magrath, W.B. and Doolette, J.W. 1990. Strategic issues in watershed development1-34 pp.. *In* Dolette and Magrath, ed. Watershed Development in Asia:
 Strategies and Technologies. World Bank Technical Paper No 127. World Bank, Washington, D. C.

- Maita, H., Nagai, T., Nudhivanich, V., Kwanyuen, B., Ngernprasertsri, S., Tangtham, N., Lorsiriat, K. 1998. Analysis of suspended yield and watershed characteristics in Mae Klong River Basin. pp 38-56. *In* Proc. Workshop on Sustainable Development of Agricultural Infrastructure and Organizational Management Chao Praya and Mae Klong Basins. Oct. 30 1998. Fac. of Eng. Kasetsart Univ., Thailand and Inst. Of Agric. And For. Eng., Univ. of Tsukuva, Japan.
- Maner, S.B. 1962. Factors influencing sediment delivery ratio in the Blackland Prairie land resource area. U. S. Department of Agriculture, Soil conservation Service, Fort Yorth, Texas.
- Marshall, T.J., J.W.Holmes and C.W.Rose. 1996. Soil Physics, 3 rd edition,
 Cambridge University Press. Cited A. Wild. 2003. Soils, land and food –
 managing the land during the 21st century. Cambridge University Press,
 UK.
- Mc Caffrey, S.C. 1993. Water, politics and international law, pp 92-104.. *In* P.H. Gleick, ed. **Water in Crisis: A Guide to the World's Fresh Water Resources**. Oxford University Press, Oxford.
- McMahon, T.A 1982. Hydrological Characteristics of Selected Rivers of the
 World. UNESCO, Paris. Cited Gordon et al. 2004 Stream hydrology-An
 Introduction for Ecologists, 2nd edition, John Wiley and Sons LTD. England.
- Morgan, R.P.C.1995. Soil erosion and conservation, 2nd edition. Longman, Harlow.
 Cited A. Wild, 2003. *In* Soils, land and food. Managing the land during the 21st century, Cambridge University Press, U. K.

- Mulvaney, T. J., 1851. Use of self-registering rain and flood gauges in making observations of the relations of rainfall and of flood discharges in a given catchment, pp. 18-31. *In* Proceeding of the Institute of Civil Engineers of Ireland volume 4.
- National Statistics Office. 2005. **Population and Labor Statistics**. Department of Local Administration, Ministry of Interior, Thailand.
- Niyom, W. 1980. Stream flow characteristics of forest and shifting cultivation area at Sakaerat Environmental Research Station (SERS). MS Thesis. Kasetsart Univ. Bangkok.
- Office of Agricultural Economics, 2005. Geographical Information System for Physical Spatial Data Analysis in Pasak Watershed Area. Ministry of Agriculture, Thailand.
- Palo, M.and G. Mery, eds.1990. Deforestation or Development in the Third World,
 Vol. III. Finnish Forest Research Institute, Division of Social Economics of
 Forestry, Helsinki. (Metsäntutkimuslaitoksen Tiedonantoja 349).
- Parker, R.S. and W.R. Osterkamp.1995. Identifying trends in sediment discharge from alterations in upstream land use, pp. 207-213. *In* W.R. Osterkamp, ed.
 Effects of Scale on Interpretation and Management of Sediment and Water Quality. Proc. of a Boulder Symposium July 1995 IAHS.
- Renfro, G.W. 1975. Use of erosion equations and sediment delivery ratios for predicting sediment yield, pp. 33-45. *In* Present and Prospective Technology for Predicting Sediment Yield and Sources. Oxford, Mississippi: Nov. 28-30, 1972. ARS-40. U.S. Department of Agriculture.

- Richards, J.F. 1990. Land Transformation, pp. 163-178. *In* B.L. Turner II, W.C.
 Clark, R.W. Kates, J.F. Richards, J.T. Mathews, and W.B. Meyer, eds. The
 Earth as Transformed by Human Action. Cambridge University Press,
 Cambridge.
- Richards, J.F. and E.P. Flints. 1994. Historic land use and carbon estimate for South and Southeast Asia: 1880-1980. *In* R.C. Daniel's (ed). Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Environmental Science Division, Pub. No. 4174.

Rigg, Jonathan. 1992. The gift of water. SOAS, London.

- Robinson, M., R.E. Moore and J.R. Blackie. 1997. From Moorland to Forest: The Coal burn Catchments Experiment. Institute of Hydrology and Environment Agency Report. Wallingford, UK: Institute of Hydrology.
- Ruangpanit, N. 1971. Effect of Crown Cover on Surface Run Off and Soil Erosion in Hill Evergreen Forest. MS Thesis, Kasetsart University, Bangkok..
- Ruangpanit, N. and N. Tangtham. 1982. Surface water hydrology Vol. 1; Final Report of KhaoYai Ecosystem Project, Faculty of forestry, Kasetsart University, Bangkok 10900, Thailand.
- Rudel, T.K. 1989. Population, Development, and Tropical Deforestation: A Cross-National Study. Rural Sociology 54: 327-338.
- Satterlund, D.R. and A. Eschner. 1965. Land use snow and stream flow regimen in Central New York. **Water Resource Res.** 1: 397-405.
- Smith, D. D. and D. M. Whitt. 1957. Estimating soil losses from field area of clay pan soil. Soil Science Soc. Amer. Proc. 12: 485-490.

- Sopper, W.E. and H.W. Lull. 1970. Stream flow characteristics of North-Eastern United States. **Bulletin 866. The Penn. State Univ. College of Agriculture**. Agr. Exp. Sta., Univ. Park, Pennsylvania.
- Soukhathammavong, K. 1997. Environmental changes in the Nam Tan Watershed,
 Sayabouly Province, pp. 138-159. *In* Proc. of International Symposium on
 Hydrology and Water Resources for Research and Development in
 Southeast Asia and the Pacific. 17-19 Dec.1997, Thailand.
- Stae of Idaho, 1987. Department of Health and Welfare, 1987. State of Idaho Forest Practices Water Quality Management Plan. Water Qual. Rep. Boise, ID: Idaho Department of Health and Welfare. 134 p. *In* G.E. Dissmeyer, ed. Drinking water from forests and grasslands. A Synth. of Scien. Lit. United States Department of Agriculture.
- Stednick, J.D. 1991. Wild Land Water Quality Sampling Analysis. San Diego, CA, Academic Press. 217p. Cited J.D. Stednick. 2000. Timber Management. *In* G.E. Dissmeyer, ed. Drinking water from forests and grasslands. A Synth. of Scien. Lit. United States Department of Agriculture, SRS-39. North Carolina. 103-104 pp.
- Steven, J.G., Katharine and A.B.P.E. Taras. 1986. Erosion and sediment control Handbook, Mc Graw-Hill Book Company, USA.
- Sugiyama, H., Vudhivanich, V. and Ngernprasertsri, S. 1998. Hydrological Drought Characteristics of the Upstream reaches of Mae Klong River. pp 1-15. *In* Proc. Workshop on Sustainable Development of Agricultural Infrastructure and Organizational Management Chao Praya and Mae Klong Basins. Oct. 30 1998. Fac. of Eng. Kasetsart Univ., Thailand and Inst. of Agric. And For. Eng., Univ. of Tsukuva, Japan.

- Swanson, F.J.; F.N.; G.E. Dissmeyer; M.E. Fenn; E.S. Verry and J.A. Lynch.
 2000. Watershed Processes-Fluxes of Water, Dissolved Constituents and
 Sediment. *In* G.E. Dissmeyer, ed. Drinking Water from Forests and
 Grasslands. A Synth. of Scien. Lit. United States Department of Agriculture.
- Tangtham N. 1998. Influence of rainfall energy and overland flow on soil loss from terraced plantation on steep terrain of Doi Angkhang High Land Project, Chiang Mai, Thailand. Thai. J. For. 17: 1-7 pp.
- Tangtham, N., K. Lorsiriat and M. Kawamoto 1999. New Perspectives for Mae Klong Watershed Resource Management: Balancing Long-term Socio-economic Sustainability with Cumulative Environmental Change. pp 1-14. *In* M. Satoh and B. Bahalayodhin, eds. Proceedings of the Workshop on Sustainable Management of the Mae Klong River Basin. Bangkok. Oct. 12, 1999. Fac. of Eng., Kastsart Univ., Thailand and Inst. of Agric. and For. Eng., Univ. of Tsukuva, Japan.
- Tangtham, N. and K. Lorsiriat 1993. Prediction models of the effect of basin characteristics and Forest Cover on reservoir sedimentation in North Eastern Thailand. Kasetsart J. (Nat. Sci.) 27: 230-235.
- Tangtham, N. and S. Yuwananont. 1996. Impact of land use changes on streamflow characteristics of Pasak Basin. **Thai J. For.** 15: 98- 110.
- Turner II, B.L., R.H. Moss, and D.L. Skole. 1993. Relating Land Use and Global Land-Cover Change: A Proposal for an IGBP-HDP Core Project. IGBP Report. No. 24 and HDP Report. No. 5. International Geosphere-Biosphere Programme and the Human Dimensions of Global Environmental Change Programme, Stockholm.
- Troeh, F.R., J.A. Hobbs and R.L. Donahue.1999. **Soil and Water Conservation**. Prentice Hall, Inc. Upper Saddle River, New Jersey 07458. USA.

- Vudhivanich, V., Ngernprasertsri, S., Maita, H. and Satoh, M. 1998. Existing rules for operation of Srinagarin and Khao Leam Reservoirs and their effects water management of Mae Klong irrigation system. 16-37 pp. *In* Proc. Workshop on sustainable development of Agricultural Infrastructure and Organizational management of the Chao Phraya and Mae Klong Basins, Bangkok, Oct. 30, 1998. Faculty of Engineering Kasetsart University, Thailand and Institute of Agricultural and Forest Engineering, University of Tsukuva, Japan.
- Wacharakitti, S., K.Eadkeo, P. Intrachandra, N. Ruangpanit, U. Kutintara and A.
 Pataratuma. 1979. Nam Pong Environmental Management Research
 Project. Land Use. Working Document No. 3. Edited and Published by the Mae Kong Secretariat.
- White, T.A. 1994. Collective action for watershed management: Lessons from Haiti. Unpublished Ph. D. Dissertation. University of Minnesota, U.S.A.
- Wittawatchutikul, P. 1997. Modeling for Critical condition of Watershed in Thailand. Ph. D Thesis, Kasetsart University, Bangkok.
- Wild, A. 2003. Soils, land and food. Managing the land during the 21st century, Cambridge University Press, U. K.
- Wischmeier, W. and D.D. Smith, 1978. **Predicting Rainfall erosion losses.** Agricultural handbook. USDA, Washington D. C.
- Ziegler, A. D. and T. W. Giambelluca. 1996. A Preliminary Simulation of Hydrological Change and Accelerated Erosion resulting from Road Expansion in Mountainous Northern Thailand. *In* Proceedings of FORTROP'1996 International Conference on "Tropical Forestry in the 21st Century". Vol. 6, Watershed management for the future, Faculty of Forestry, Kasetsart University, Bangkok, 10900.