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Soil Conservation and Management

Under the direction of
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RESEARCH FOCUS:

**Upland and Highland Soil Conservation and Management,
Vetiver Grass for Soil Conservation, Land Degradation, Soil
Survey, Soil Genesis, Soil Classification**

Research Fields

- Use of soil amendments with respect to soil conditions for improving effectiveness of fertilization and yield of cassava grown on degraded soils
- Soil characterization including genesis and classification, and fertilizer management in cassava, sugarcane, vegetables, Chinese tea and physic nut crops
- Soil erosion control, soil fertility conservation and management using soil conditioners under upland crop practices, and upland tillage practices
- Soil physical and chemical degradation, for instance, landslide and soil nutrients imbalance

Publications

Anusontpornperm, S., S. Nortcliff and I. Kheoruenromne. 2009. Interpretability comparison between Soil Taxonomic and Fertility Capability Classification units: a case of some major cassava soils in northeast, Thailand. *Kasetsart J. (Nat. Sci.)* 043 (5): 9-18.

Jindaluang, W., S. Anusontpornperm and I. Kheoruenromne. 2009. Diversity and Fertility of Soils in Inthanon Area, Chiang Mai Province. *Kasetsart J. (Nat. Sci.)* 043 (5): 1-8.

Phunmuang, C., S. Anusontpornperm, I. Kheoruenromne, A. Suddhiprakarn and W. Wiriyaakitnateekul. 2011. Morphological and physical properties of fragipan in contrasting material derived soils. *Thai J. Agri. Sci.* 44(2): 103-113.

Takahashi, M., K. Hirai, P. Limtong, C. Leaungvutivirog, S. Suksawang, S. Panuthai, S. Anusontpornperm and D. Marod. 2009. Soil respiration in different ages of teak plantations in Thailand. *JARQ* 43 (4): 337-343.

Takahashi, M., K. Hirai, P. Limtong, C. Leaungvutivirog, S. Panuthai, S. Suksawang, S. Anusontpornperm and D. Marod. 2011. Topographic variation in heterotrophic and autotrophic soil respiration in a tropical seasonal forest in Thailand. *Soil Sci. Plant Nutri.* 57(3): 452-465.

Wichaikam, N., S. Anusontpornperm, W. Sakchoowong and W. Amornsak. 2010. Seasonal and Habitat-Specific Differences in Soil Insect Abundance from Organic Crops and Natural Forest at the Ang Khang Royal Agricultural Station, Chiang Mai, Thailand. *Thai J. Agri. Sci.* 43(3): 231-237.

Anusontpornperm, S., N. Sri-umpai, S. Thanachit, A. Suddhiprakarn and I. Kheoruenromne. 2009. Aluminium Saturation Prediction for the Assessment of Al Toxicity in Highland Soils from the North of Thailand, p 62. In the 11th International Symposium on Soil and Plant Analysis, Program and Abstract. July 20-24, 2009. Hyatt Vineyard Creeks, Santa Rosa, CA.

Anusontpornperm, S., S. Thanachit, A. Suddhiprakarn, I. Kheoruenromne, W. Onsumram and K. Phetmak. 2008. Moisture characteristic in three various types of soil. The 36th Congress on Science and Technology of Thailand (STT36), October 26-28, 2010, Bang-na, Bangkok.

Anusontpornperm, S., S. Thanachit, I. Kheoruenromne and A. Suddhiprakarn. 2013. Bulk Density, Hydraulic Conductivity, AWC and Soil Strength as Indicators for Evaluating Plough Pan Problem in Cassava and Sugarcane Crop Production, p 31. In Abstract of 13th International Symposium for Soil and Plant Analysis, ISSPA13. 9-12 April, 2013, Queenstown, NZ.

Anusontpornperm, S., S. Thanachit, A. Suddhiprakarn and I. Kheoruenromne. 2009. SOM and Total Nitrogen Balance in Soils after Changes from Forest to Agriculture in Humid Subtropical Highlands of Thailand, p. 73. In International Symposium on Soil Organic Matter Dynamics: Land Use, Management and Global Change, Book of Abstract. July 6-9, 2009. Cheyenne Mountain Conference Center Colorado Springs, Colorado.

