

CURRICULUM VITAE

I. Personal Data

Full name: Assoc. Prof. Dr. Nguyen Van Dung

Sex: Male

Date of birth: May 12, 1955

Place of birth: Nghia Dan Commune, Kim Dong District, Hung Yen Province, Vietnam

Office: Faculty of Land Resources and Environment, Hanoi Agricultural University (HAU)

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Marital status: Married (with 2 children)

Position: 1979 to Present: Teaching Assistant at the Department of Irrigation and Farming Systems, Faculty of Land Resources and Environment, and Team Leader at the Center for Agro-Ecological Research and Environmental Studies (CARES) HAU. Head of department of Irrigation and Farming system from 2007

II. Education Record

1972 Kim Dong School of Secondary Education

1978 Bachelor of Science Degree (with Distinction), Hanoi Agricultural University (Thesis Topic: "Evapotranspiration in Spring Rice")

1979 to Present: Teacher in the Department of Irrigation and Cropping Patterns, Faculty of Land Resources and Environment, HAU.

1992 (August): 2-month training course: "Water Management" (AIT- Thailand)

1995 (February): 2-month training course: "Using Neutron Probes for Measuring Soil Moisture and Collecting Data from an Automatic Weather Station" (Melbourne University-Australia)

1995 (September): Master's Degree, Ministry of Education and Training (Thesis: "Operations of Pumping Schemes in the Gia Lam District")

1999 (July): Team Leader, training course: "Methodology for Studying Nutrient Balances in Swiddens and Wet Rice Fields in Tat Hamlet, Hoa Binh Province"

2000 (March): Doctoral Degree, Ministry of Education and Training (Thesis: "Evapotranspiration and Water Requirements for the Management of the Lake Irrigation Scheme in the Red River Delta")

2001 (September): 3-month training course: "Water Management in Small Watersheds" (University of Hawaii-USA)

2002 (September): 3-month training course: "Soil Erosion and Soil Degradation" (Kyushu University-Japan)

1979 to Present: Short training courses in Laos, Thailand, China, and the Philippines, with subjects including: "Soil Erosion," "Nutrient Balance," "Water Balance," and "Water Management for Irrigation and Land Use."

III. Education Activities

I believe that teaching and advising activities at the university are my main duties and contribute to the dissemination of new information. I always attempt to organize effective programs, abide by regulations and apply new teaching methods where applicable.

Bachelor's-Level Activities:

Lectures

I have taught the following lectures at the bachelor's level :

Before 2003:

- Irrigation and Drainage for Agronomy, Breeding and Extension
- Water Management for Land Management
- Irrigation and Drainage for Soil Quality Improvement for Soil and Fertilizer

2003 – Present:

- Water Resources for the Agricultural Environment
- Wetlands in Vietnam and the Agricultural Environment

Master's-Level Activities

Lectures

I have taught the following lectures at the master's level :

- Irrigation and Drainage for Agronomy, Soil and Fertilizer
- Modeling of Soil Erosion for Agronomy, Soil and Fertilizer

Text / Reference Books

I wrote the ninth chapter of **Water management of book** published in 2005 and wrote Soil moisture and sensible irrigation for crop part

Advising

I have advised 8 master's degree recipients

IV. Research Topics

I believe that research is one of my main duties and is a good way to help teachers gain knowledge of current developments and thus, improve lesson plans. I have concentrated my research in the following subjects:

- Evapotranspiration and water requirements for cropping patterns
- Irrigation and drainage efficiency of wetlands in the Red River Delta
- Impact of the agricultural production customs of ethnic minorities on soil erosion and soil degradation.
- Nutrient balances of small watersheds
- Farmer-based organization and management of water user-groups
- Community-based management of small-scale irrigation systems
- Effectiveness of government-sponsored construction of small irrigation systems designed to help farmers maintain and use water in rice production
- Impact of urbanization and industrialization on irrigation systems

Project Coordination:

Coordinator of two successfully-completed projects sponsored by the Ministry of Education and Training

Project Title: “Effects of Rainfall and Land-Use Types on Soil Degradation at a Micro-Watershed in Tan Minh Commune of Da Bac District, Hoa Binh Province”

Code Number: B2001-32-104

Implementing Institution: Hanoi Agricultural University

Project Title: “Water-Saving Technologies in Rice Intensification”

Code Number: B2005 -32 -104

Implementing Institution: Hanoi Agricultural University

National Research Publications

Project Title: “Improving Management Quality and Water -Use of the Irrigation System in the Red River Delta”

Code Number: B94-11-43

Coordinator: Prof. Dr. Ha Hoc Ngo

Project Title: “Current Evaluation and Soil Potentiality to Develop a Master Plan for Chau Giang District, Hung Yen Province”

Code number: B96-32-03

Coordinator: Prof. Dr. Ha Hoc Ngo

Project Title: “Process Technologies in Rice Intensification to Exceed the High Yield by Improving Irrigation System and Fertilizer Depth Placement”

Code number: B2004-32-70

Coordinator: Dr. Nguyen Tat Canh

International Research Publications

Project Title: “Water Management by Pumping Systems in the Red River Delta”

Code number: ASIAR-9404

Coordinator: Prof. Dr. Ha Hoc Ngo

Project Title: “Nutrient Balance Analysis of the Sustainability of a Composite Swidden Agroecosystem in Vietnam’s Northern Mountain Region”

Coordinator: Associate Prof. Dr. Tran Duc Vien

Project Title: “Sustainable Technologies for Pest, Disease and Soil Fertility Management in Smallholder Vegetable Production in China and Vietnam” (VEGSYS)

Coordinator: Associate Prof. Dr. Tran Duc Vien

Project Title: “Seeking Synergy Between Urban Growth Horticulture and the Environment in an Asia Metropolis”

Coordinator: Associate Prof. Dr. Tran Duc Vien

V. Personal History

- From 1995 to 1996: Studied evapotranspiration and the water requirements of the cropping system in the Red River Delta. Evapotranspiration is an initial variable used to calculate water loss on a farm, and calculating irrigation requirements helps the irrigation system supply water in correct quantities at the crop’s appropriate growth

stage. The results were applied to La Khe irrigation, Dan Hoai irrigation and Vang irrigation

- Effects of water management and water use in the Lowlands. The size of the lowland area of the Red River Delta is around 1 million ha. For rice production, the government has invested in many drainage irrigation systems with recharge from 3 to 6 l per second/ha. But the yearly waterlogged area was 70.000 ha with different levels. This is a main case the yield ranged. The studies to resolution waterlogged base on the soil potentiality, water resources for stainable agricultural growth, keep water and economize water use in agricultural production.
- From 1999 to now: Study nutrient and water balances in Vietnam's watershed areas. This subject is important because upland areas occupy 75 % of the country's land and are home to 21 % of the country's total population. The economic disparity between upland and lowland areas is expected to grow in the future, and the World Bank has estimated that upland poverty rates will increase from 28.1% to 34.4%. Slash-and-burn agriculture is the main reason for the Uplands' decreased forest area, increased fallow land and shorter fallow cycles. The objective of the study is to determine how the length of fallow periods impact nutrient balances and soil recovery time after swidden. The study attempts to determine the appropriate fallow time required for soil nutrient recovery in an effort to establish sensible land use practices.
- Evaluate current irrigation system operations of the Uplands in order to help farmers maintain operations and increase the size of their irrigated areas
- Study water preservation during rice intensification

VI. Current and Future Research Areas

- Doing research on water-saving methods for crop intensification, especially evapotranspiration (ET) in green house s, and automatic irrigation.
- Researching materials suitable for water storage / evaporation prevention, and new irrigation methods applicable for drought zone s.
- Conducting a study on soil erosion that uses models to diagnose soil erosion, surface runoff, and soil moisture in upland areas. The goal is to extend the areas' agricultural production period, minimize soil degradation due to soil erosion and runoff and stabilize and/or increase upland rice yield.
- Evaluating the impact of urbanization and industrialization on current irrigation systems and **water pollution levels**.

VII. Representative Research Papers

- Tran Duc Vien, Nguyen Van Dung, Pham Tien Dung, Nguyen Thanh Lam. Nutrient Balance Analysis of the Sustainability of a Composite Swidden Agroecosystem in Vietnam's Northern Mountain Region , Vol 41, No4, 2004, Southeast Asian Studies
- Nguyen Van Dung, Tran Duc Vien . Changes in Water Management in Agricultural Land Use: A Case Study in Dong Anh, Hanoi, Vietnam. The Second International Symposium on Southeast Asian Water Environment (Proceeding) December, 20 04
- Nguyen Van Dung. Evaluation of Current Agricultural Production Operations of Hoa Lu Irrigation, Ninh Binh Province, Science & Technology Journal of Agriculture&Rural Development, ISSN 0866 -7020, 19-2005
- Nguyen Van Dung. Water Use and Water Management in Relation to Recent Changes in Agricultural Land Use of Irrigation Systems in the Red River Delta, Vietnam Soil Science, ISSN 0868-3743, 21-2005

- Nguyen Van Dung, Nguyen Tat Canh . Water Saving and Fertilizer Placement Depth in Rice Intensification, Science & Technology Journal of Agriculture&Rural Development, ISSN 0866-7020, 1-2006
- Nguyen Van Dung, Tran Duc Vien, Water management in Vietnam's Northern Mountain region, A case study of Tat hamlet, Dabac District, Hoabinh, Special issue welcoming the 18th World Congress of Soil Science Pennsylvania -Philadelphia, July 2006, Vietnam Soil Science, ISSN 0868-3743, 2006
- Nguyen Tat Canh, Nguyen Van Dung, Chu Anh Tiep, The status of water resource and water saving irrigation management of rice in Red river delta, Vietnam journal of agriculture and rural development, ISSN 0866-7020, 2007

As a result of lectures and research from 1979 to now, I have written and helped to write 29 papers:

- 20 papers published with ISSN indexes
- 1 paper contributed to the Second International Symposium on Southeast Asian Water Management
- 1 paper in the Journal of Ecological Economy
- 5 papers in the Journal of Agricultural Science and technology, Hanoi Agricultural University, ISSN 1859-0004
- 2 papers in the Science Collection of Faculty of Land Resources and Environment

Signature of Declarer

Date Signed: May 05th, 2008

Assoc. Prof. Dr. Nguyen Van Dung