2.5 Theses

(1) Doctor's Thesis

Division of Arid Land Environment

Subdivision of Natural Environment

Zhou Jian-zhong : Climatological Studies on Productivity of Livestock Farming and Agriculture in the Inner Mongolia Autonomous Region of China

Division of Biological Production

Subdivision of Plant Ecophysisology

Matsuura, A. : Mechanisms of interspecific differences of vegetative growth response to soil drying in the three gramineous crops

Division of Afforestation and Land Conservation

Sub division of Land Conservation

Naruoka, M. : Efficient Water Application of Supplemental Irrigation and Two-dimensional Capillary Supply of Drip Irrigation in Upland Field

Yokotsuka, A. : Characteristics of Plant Growth and Soil Water on Artificial Bed Soil in Sparse Vegetation Areas

(2) Master's Theses

Division of Arid Land Environment

Subdivision of Natural Environment

Ishikawa, M. : Studies on purification of seawater using solar distillation and soil-atomosphere heat exchange distillation

Kimura, R. : Studies on the aerodynamics and energy balance of crop field

Subdivision of Water Resources

Sagawa, Y. :Agricultural use of super-water-absorbent polymer.

Hayashi, N. :Measurement of soil moisture and soil salinity by TDR method.

Miyamoto, K. :Effect of irrigation water salinity and environmental conditions on transpiration.

Feyisa, M.R. :Improvements of furrow irrigation performance.

Division of Biological Production

Subdivision of Plant Ecophysiology

Amiya, T. : Evaluation of bioassay to search for inhibitor of leaf elongation derived from roots under soil drying

Subdivision of Plant Production

Ochiai, E. :Fundamental studies on development of afforestation in the Kubuqi Desert in China

Fujii, E. :Fundamental studies on tolerance of salinity for flower

Division of Afforestation and Land Conservation

Subdivision of Revegetation and Grassland Development

Yamanaka K. : Effects of salt spray from the sea on growth and shapes of Japanese Black Pine on sand dunes.

Subdivision of Land Conservation

Nishio, T. :Studies on subsurface microirrigation in a sandy field.

Karatu, H. :Simultaneous measurement of salt and water in unsaturated sand column.

(3) Graduation theses by undergraduate students

Division of Arid Land Environment

Subdivision of Natural Environment

Tasumi, M. : Microclimate and water balance of lawn grass

Matsuoka, K. : Studies on the spectral reflectance of mixed surface

Yanagidani, T. : Radiation and temperature circumstances of recycling use paper mulch

Subdivision of Water Resources

Oba, T. : Consumptive use of water of soybeans in Ando soil

Miki, H. : Consumptive use of oranges

Division of Biological Production

Subdivisoin of Plant Ecophysiology

Arita, K. : Purification and characterization of L-Tyrosine decarboxylase in cultured shoots of *Stephania delavayi*

Ikehashi, M. : Selection of salt-tolerant cultured roots of tobacco and cultured shoots of *Stephania delavayi*

Hayashi, C. : Time course analysis of effects of sodium and calcium on radicle elongation rate of soybean

Yamamoto, Y. : Effect of plant hormones on growth of cultured roots of tomato under low temperature

Subdivision of Plant Production

Arai, S. : Studies on the way of irrigation for cultivation of Baker's Garlic

Odaira, H. : Effect of microorganism culture solution on growth of *Phalaenopsis*

Kosaka, T. : Studies on water control on sand bed

Matumura, K. :Studies on irrigation control of plants on road

Ochiai, M. : Purification and characterization of L-tyrosine decarboxylase from cultured roots of *Stephania cepharantha*

Division of Afforestation and Land Conservation

Subdivision of Revegetation and Grassland Development

Nasuno T. : Stand structure of *Robinia pseudo-acacia* forests on sand dunes and effects of cutting season on sprouting characteristics.

Niitani T. : Water and nutrient dynamics and growth of *Quercus serrata*

Subdivision of Land Conservation

Sugimoto, F. : Effect of super moisture absorbent fiber under irrigation condition in a sandy soil

Hirabayashi, H. : Distribution of water and salt in sloped field under sand mulching on artificial bed soil

Yoshinaga, M. : Simultaneous transfer of heat, water and solute in a closed soil column -Estimation of

heat transport parameter under soil temperature gradient, and prediction of water and salt movement-