3.5 Theses of Graduate and Undergraduate Courses

(1) Doctor's Theses

Subdivision of Water Resources

Guo Yu Qiu

A new method for estimation of evapotranspiration

Subdivision of Plant Ecophysiology

Ali Imad-eldin Ahmed

Effects of low root temperature on growth, transpiration, nutrient composition and root-born phytohormones in tomato, sesame and rapeseed plants

(2) Master's Theses

Subdivision of Natural Environment

Ezuka, T.

Diagnosis of salinity stress of plant using spectral reflectance

Okada, S.

Basic studies on the sand movement of Tottori Sand Dunes

Gu, S.

Comparison of radiation balance between sand and vegetable field

Subdivision of Water Resources

Hiroshige, H.

Estimation method of suitable time for irrigation on the basis of plant evaporation

Yamaguchi, Y.

Comparison of several methods for estimation evapotranspiration

Yamada, M.

Behavior of soil moisture with irrigation application

Yamamoto, T.

Saline water irrigation of soybeans taking account of their salt tolerance

Subdivision of Plant Ecophysiology

Saisho, T.

Acutumine biosynthesis in cultured roots of *Menispermum dauricum*

Suenaga, K.

Selection and characterization of salt-tolerant plant cells

Subdivision of Plant Production

Iiyama, D.

Studies on water saving cultivation in the United Arab Emirates

Kiyosu, T.

Studies on water distribution in a melon plant

Nishihara, E.

Studies on growing spinach on sandy soils during summer - Utility of soil bacteria and water control -

Yamane, K.

Basic studies on crop salt tolerance and their feasibility as soil cleaning crops

Subdivision of Revegeteation and Grassland Development

Kawasaki, E.

Vegetation structure of coastal Black Pine forests

Tejima, S.

Effect of water and nutrient dynamics on the growth of *Quercus serrata*

Subdivision of Land Conservation

Sugiyama, Y.

Function and estimation due to application of Satellite Image Data to large-scale irrigation system in arid areas of Iran

Okoshi, K.

Two-dimensional soil water movement under drip irrigation in layered slope

Ikeura, H.

Use of groundwater resource distributed in inter-dune lowland for irrigation in the Mu Us Shamo Desert of China

(3) Graduation Theses by Undergraduate Students

Subdivision of Natural Environment

Iwao, S.

Effect of the solar altitudes and sensor angles on the spectral reflectance of rice plant canopy

Hatsuta, T.

Basic studies on the recycling of vapor of the atmosphere

Matsubara, Y.

Relationship between sand and topography in the Tottori Sand Dunes

Subdivision of Water Resources

Iwata, S.

Measurement of electrical conductivity of soil solution by TDR method.

Kamo, H.

Effect of the application of super-water-absorbent polymer to agricultural use on water saving and plant growth.

Subdivision of Plant Ecophysiology

Dokai, H.

Non-destructive method for root elongation measurement in soil using acoustic emission sensors

Asakura, Y.

Time course analysis of effects of sodium and calcium on radicle elongation rate of soybean

Nishimura, J.

Effect of fatty acid composition on plant response to salinity stress

Oi, N.

Physiological analysis of plant cells to salinity stress

Subdivision of Plant Production

Konishi, M.

Studies on soil moisture control in Baker's Garlic cultivation

Nishida, Y.

Studies on soil moisture control in lettuce cultivation

Hirata, M.

Utilization of filtrate from microorganism culture solution on *Phalaenopsis*

Yamamoto, N.

Effects of salt water application on spinach growth

Subdivision of Revegeteation and Grassland Development

Fujiki, D.

Maintenance mechanisms of clonal structure of *Lindera umbellata*

Hashimoto, M.

Effect of fertilization on the nutrient dynamics of *Fagus crenata*

Kiribayashi, M.

Effect of fertilization on the seedling dynamics and fruit production of *Fagus crenata*

Nagai, K.

Reproductive ecology of *Taxus cuspidata* var. nana.