

## 2.5 Theses of Graduate and Undergraduate Courses

### (1) Doctor's Theses

#### Subdivision of Plant Ecophysiology

**Deng, Xi-Ping**

Eco-physiological adaptation and yield improvement of spring wheat under different water and nutrient management in the Loess Plateau, China

#### Subdivision of Land Conservation

**Sumikoshi, M.**

Some chemical and physical factors affecting the hydraulic properties and aggregate stability of sodic soils

### (2) Master's Theses

#### Subdivision of Natural Environment

**Sasaki, Y.**

Heat balance in the Sugar Cane field in Miyako Islands

**Sakamoto, Y.**

Studies on the water balance in the earth-air heat exchange distillation system

#### Subdivision of Water Resources

**Egami, Y.**

Water consumption characteristics of maize in Mediterranean climate, Turkey

**Takahashi, Y.**

Numerical simulation of soil water movement by SPAC model

**Matsuoka, Y.**

Water and salt transport in soil during vegetation grow

#### Subdivision of Plant Ecophysiology

**Ikeda, K.**

Improvement of prediction procedure for convective and evaporative heat transfer in solar still

**Kubo, M.**

Search for genes involved in biosynthesis of secondary metabolites produced by *Menispermum dauricum* root culture

**Sonobe, K.**

Study on the biosynthesis of strigol, a germination stimulant of root parasitic weed; *Striga hermonthica*

**Hiraoka, Y.**

Salt-adaptation mechanisms in photoautotrophically cultured cells

#### Subdivision of Plant Production

**Ogino, Y.**

Interactive effects between VA mycorrhiza and rhizobium on growth of 4 leguminous plant species

### **Subdivision of Revegetation and Grassland Development**

**Inoue, Y.**

Eco-physiological studies on the seedlings of woody plants indigenous to Caatinga areas in Brazil.

**Yanagisawa, A.**

Eco-physiological responses of *Tamarix austromongolica* under different saline conditions

**Yamamoto, M.**

Growth and drought tolerance of *Salix* species used for revegetation in semi-arid areas of China

### **Subdivision of Land Conservation**

**Utsunomiya, J.**

Preventing of suspension clogging in micro-irrigation system

**Sakaguchi, I.**

Latent heat transfer in salt-affected non-swelling clay

## **(3) Graduation Theses by Undergraduate Students**

### **Subdivision of Water Resources**

**Yagura, A.**

Study on evapotranspiration and Salinization due to saline water irrigation

Comparison between surface drip irrigation and sub-surface drip irrigation

### **Subdivision of Natural Environment**

**Yano, H.**

Studies on the sand movement in Tottori sand dune – Relationship between change of sand surface and topography

**Yamada, Y.**

Studies on the micrometeorological parameters in upland rice field

### **Subdivision of Plant Ecophysiology**

**Asamitsu, Y.**

Effect of silicon application on the water uptake ability of sorghum

### **Subdivision of Plant Production**

**Shudo, I.**

Effects of mulching materials on growth and yield of a sweet potato variety, "Ayamurasaki"

### **Subdivision of Revegetation and Grassland Development**

**Aoki, S.**

Eco-physiological studies on *Robinia pseudoacacia* planted in Tottori sand dunes

**Kishi, T.**

Structure and productivity of *Robinia pseudoacacia* forests planted in Tottori sand dunes

**Oobu, T.**

Effect of vegetation on the soil water condition in Tottori sand dunes

**Oosaki, H.**

Establishment and growth of *Tamarix austromongolica* cuttings under different saline conditions

### **Subdivision of Land Conservation**

**Koiwasaki, M.**

Preventing algae clogging of filter and emitter in micro-irrigation system