

## 2.5 Theses of Graduate and Undergraduate Courses

### (1) Doctor's Theses

#### Subdivision of Plant Ecophysiology

**An, P.**

Effects of air humidity on the growth of two cultivars differing in salt tolerance in soybean, melon and tomato under saline conditions

### (2) Master's Theses

#### Subdivision of Natural Environment

**Okatsu, K.**

Study on the estimation of evapotranspiration using the zero-flux plane method

**Ogasawara, D.**

Study on the change of soil environment under the condition of mulch covering

**Miura, H.**

Seasonal variation of the evapotranspiration in upland rice field

#### Subdivision of Water Resources

**Itani, R.**

Effect of salinity on soil permeability

**Itou, M.**

Evapotranspiration from tomato under saline irrigation condition

**Kageyama, H.**

Assessment of irrigated farmlands using satellite images

**Mizufune, H.**

Leaching characteristics of saline soils

**Chiwaya, R.**

Water balance and runoff characteristics of dambo catchments

#### Subdivision of Plant Ecophysiology

**Tsuji, W.**

Morphological and physiological responses of root system to water stress in two sorghum cultivars

**Hattori, T.**

The effect of silicon on the growth of sorghum under drought stress

**Peter A. B**

Characterization of adaptation nature of photoautotrophic salt-adapted *Petunia hybrida* cell line

**Yasuda, N.**

Germination stimulants and inhibitors for root parasitic weed *Striga hermonthica*

**Matsuda, M.**

Water-saving culture of wild turnip

### **Subdivision of Plant Production**

**Nishiyama, H.**

Effects of VA mycorrhizae inoculation on growth of pea plants

**Li Xiang Jun**

Growth compensation of soybean plants after leaf damages caused by insects

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

**Obata, Y.**

Growth characteristics of evergreen broad-leaved trees planted in Pine forests damaged by pine wilting disease on Tottori sand dunes

**Kakimoto, K.**

Growth of Japanese black pine under different site condition on coastal sand dunes

**Grette, M.**

Growing characteristics of sand dune plants and effects of their sand fixation

**Muramoto, H.**

Mechanisms of salt tolerance in halophyte

### **Subdivision of Land Conservation**

**Imai, M.**

Control of salt accumulation and evaporation loss from mulched dune sand columns as influenced by gravel mulch and column size

**Yuya, A.**

Water erosion prevention of sodium soil by artificial zeolite

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

### **Subdivision of Natural Environment**

**Sakamoto, Y.**

Study on the Earth-air heat exchange distillation house

**Sasaki, Y.**

Studies on the micrometeorological parameters in upland rice field

### **Subdivision of Water Resources**

**Takahashi, H.**

Indexing water stress using leaf temperature - Measurement on corn -

**Matsuoka, Y.**

Measurement of soil moisture content using small TDR probes

### **Subdivision of Plant Ecophysiology**

**Sonobe, K.**

Purification of germination stimulant for *Striga hermonthica* from *Stephania cepharantha* root culture

**Watanabe, M.**

Characterization of genes related to ethylene biosynthesis in germinating *Striga hermonthica* seeds

### **Subdivision of Plant Production**

**Muroi, T.**

Effects of baker's garlic residue mulching on soil properties and growth of egg plants

**Wakiji, K.**

Studies on the stress mitigating mechanism of VA mycorrhizae on cowpea growth

**Murakami, N.**

Effects of heat and moisture treatments on germination of Kudzu plant, *Pueraria lobata*

**Subdivision of Revegetation and Grassland Development**

**Yanagisawa, A.**

Salt tolerance of *Tamarix chinensis*

**Yamamoto, M.**

Ecophysiological responses of four *Salix* species to short term drought stress

**Suzuki, I.**

Establishment condition of *Vitex rotundifolia* on Tottori sand dunes

**Subdivision of Land Conservation**

**Utsunomiya, J.**

Algae clogging of filter and emitter in microirrigation systems

**Higami, H.**

Accuracy of water erosion measurements using portable type of digital camera