

## 2.5 Theses of Graduate and Undergraduate Courses

### (1) Doctor's Theses

#### Subdivision of Natural Environment

**Gu, S.**

Studies on albedo and heat balance of Tottori Sand Dune

#### Subdivision of Land Conservation

**Amu-Mensah, FK.**

Application of tank irrigation in promoting agriculture in low rainfall areas of Ghana

**Wei, J.**

Effect of topography on plant growth of air-seeding on desert control in China

### (2) Master's Theses

#### Subdivision of Natural Environment

**Ushijima, Y.**

On the micrometeorology and evaporation over the bare sandy soil

**Kato, T.**

Estimation of the evapotranspiration from the sparse plant field

#### Subdivision of Water Resources

**Imamura, T.**

Non-destructive test of moisture content and salinity of soil

**Ohigashi, N.**

Accurate estimation of evaporation by using TDR method in bare field

**Sasami, I.**

Automatic management of soil moisture based on the sap flow measurement

#### Subdivision of Plant Ecophysiology

**Shimoda, T.**

Adaptation mechanisms of photoautotrophic cells of *Petunia hybrida* to salinity stress

**Hibino, A.**

Effect of Ca on root elongation of soybean seedlings subjected to NaCl stress

**Yabuta, S.**

Molecular mechanisms of seed germination of root parasitic weed *Striga hermonthica*

#### Subdivision of Plant Production

**Ohyama, M.**

The effects of the waste water application treated with photosynthetic bacteria on Komatsuna growth and soil properties

**Tamai, M.**

The effects of VA mycorrhiza inoculation on the growth of cow pea grown under different soil moisture conditions

#### Subdivision of Land Conservation

**Sakaguchi, Y.**

Monitoring for movement of volumetric water content, pressure head and salinity in crop root under salty water irrigation

**Hatanaka, J.**

Countermeasure against clogging of filter and emitter in microirrigation system

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

#### **Subdivision of Natural Environment**

**Matsuki, R.**

Studies on the wind characteristics in Tottori sand dune

#### **Subdivision of Water Resources**

**Nishio, T.**

Utilization of highly saline water for irrigation

#### **Subdivision of Plant Ecophysiology**

**Ikeda, K.**

Effect of heat pipes on water production in waterstill

#### **Subdivision of Plant Production**

**Nakai, T.**

Study on growing spinach by fertigation on sandy soil

**Nakanishi, Y.**

Suitable harvesting time judged from sugar content in bulbs of Baker's garlic

**Maeda, T.**

Effects of different soil moisture treatment during pollinating stage on fruit quality of melon

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

**Atsumi, Y.**

Eco-physiological studies on *Salix* spp. under different water conditions.

#### **Subdivision of Land Conservation**

**Nakajima, C.**

Management of nutrition for crops grown in sand fields by using coated fertilizer and artificial zeolite