

2.5 Theses of Graduate and Undergraduate Courses

(1) Doctor's Theses

Subdivision of Natural Environment

Okada, S.

Study of sand movement in Tottori Sand Dune, Japan

Subdivision of Plant Ecophysiology

Babiker, Hind A. A.

Biosynthesis of chlorine-containing compounds in *Menispermum dauricum* root cultures

Subdivision of Land Conservation

Ikeura, H.

Sustainable irrigation schedule using groundwater resource in Mu Us Shamo desert of China

(2) Master's Theses

Subdivision of Natural Environment

Kawamoto, T.

Study on the characteristics of photo-environment on paper mulching

Sakoi, T.

Observations on the water balance and eluviation of subsurface soil-layer in sand field

Subdivision of Water Resources

Akiba, N.

Impact of sprinkler irrigation on microclimate in plant community

Yang Sheng Li

Evapotranspiration under drip irrigation with saline water

Tanaka, K.

Water and salt behavior in soil under subsurface irrigation

Higaki, E.

Hydraulic conductivity of saline soils

Subdivision of Plant Ecophysiology

Inoue, T.

Differences in drought tolerance among wheat varieties

Okamoto, H.

Effect of root zone temperature on transpiration

Suzuki, A.

Development of plant production system using sea water

Miyamoto, M.

Search for haustorial inducing substance for *Striga hermonthica*

Subdivision of Plant Production

Suzuki, H.

Sub-surface irrigation using porous rubber tube

Kondo, K.

Feasibility to reuse waste water treated with red-non-sulfuric bacteria in agriculture

Subdivision of Land Conservation

Inoue, A.

Water flow and solute transport during leaching process using continual or intermitted irrigation in sandy column - Application of monitoring system for water flow and solute transport-

Urimoto, M.

Soybean experiment with mulches and salt accumulation

Otoshi, M.

Monitoring for rill soil erosion by photogrammetry

Togashi, T.

Determining soil hydraulic properties by two-stage inverse method using outflow and evaporation data

Mori, T.

Application and effect of coated fertilizer to sand fields

(3) Graduation Theses by Undergraduate Students

Subdivision of Natural Environment

Maekawa, Y.

Study on agricultural land-use classification in the lower basin of Yoshino River using remote sensing

Yogi, I.

Studies on the effect of water retentivity and thermal variation under soil surface paper mulching

Subdivision of Water Resources

Kageyama, H.

Soil surface evaporation under plant cover condition

Mizufune, H.

Reclamation of saline soils by leaching

Subdivision of Plant Ecophysiology

Sugihara, M.

Purification of *Striga hermonthica* germination stimulant from *Menispermum dauricum* root culture

Tsuji, W.

Comparison of dry matter production and root system development between two sorghum cultivars with different drought tolerance

Miyake, A.

Enzymatic chlorination of dechloroacutumine

Subdivision of Plant Production

Kageyama, N.

Effects of 5-amino leburic acid on growth of lettuce

Yamazaki, S.

Effects of NaCl on growth and flower traits of peony

Hirata, R.

Effects of under-ground-water levels and salt concentrations on growth of spinach

Subdivision of Revegetation and Grassland Development

Obata, Y.

Establishment and growth of broad-leaved trees planted in a pine forest damaged by pine wilt disease on sand dunes

Ogasawara, D.

Effect of salt water irrigation on the growth of *Eucalyptus* spp.

Kakimoto, K.

Effect of climatic condition on the growth of Japanese black pine planted on sand dunes.

Tayama, T.

Studies on the drought tolerance of *Salix* spp.

Subdivision of Land Conservation

Sakaguchi, I.

Characteristics of grass growth cultivated with sloped sand plot under glasshouse condition

Funagoshi, R.

Effect of artificial zeolite on hydraulic conductivity of salinity soil

Yuuya, A.

Effect of artificial zeolite on preventing from water erosion of salinity soil