

2.2 Research Projects

Project	Research Fund
All Divisions	
Basic Studies on the establishment of plant production system using sea water in the coastal arid land	COE program
Division of Arid Land Environment	
<i>Subdivision of Natural Environment</i>	
Studies on the relationship between net primary plant productivity and land usage in arid regions of China	Allocation from the University Funds
Design of the atmospheric vapour distillator in arid regions	Monbusho Grant-in-Aid for Scientific Research B(1)
Analysis of ground surface information by remote sensing in arid land	Allocation from the University Funds
Studies on the wind climate and the sand movement in the Tottori Sand Dune	Allocation from the University Funds
Observation of acid rain	Allocation from the University Funds
Studies on the effect of water retentivity and thermal variation under soil surface mulching	Allocation from the University Funds
Development of new technology for irrigation system management and environmental improvement in arid areas - Case study in Aral Sea region -	Monbusho** Grant-in-Aid for Scientific Research B
<i>Subdivision of Water Resources</i>	
Movement of salt and water due to water uptake by plant roots	Allocation from the University Funds
Design and water management of micro irrigation	Allocation from the University Funds
Estimation of crop consumptive use of water	Allocation from the University Funds
Establishment of soil moisture measurement methods	Allocation from the University Funds
Development of technology for rehabilitation of salt accumulated soils in the Central Asia	Grant-in-aid from Environment Agency

Soil and water properties for effective water management	Allocation from the University Funds
Prevention of soil erosion in surface irrigation method	Allocation from the University Funds

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Division of Biological Production

Subdivision of Plant Ecophysiology

Fundamental studies on development of technology for sustainable biological production in East Asia.	Monbusho Grant-in Aid for Creative Basic Research
Effect of root zone temperature on plant growth.	Monbusho Grant-in Aid for Genetic Scientific Research
Development of non-destructive measuring systems for root growth based on AE method.	Monbusho Grant-in-Aid for Developmental Scientific Research
Differences in the response to soil moisture depletion among several crops.	Allocation from the University Funds
Physiological mechanism of wheat on deep-sowing tolerance.	Allocation from the University Funds
Development of plant production system using seawater.	Allocation from the University Funds
Biosynthesis of benzyloisoquinoline alkaloids.	Allocation from the University Funds
Selection of salt-tolerant cultured cells.	Allocation from the University Funds
Leaf elongation inhibitors from maize subjected to moderate soil-drying conditions.	Allocation from the University Funds

Subdivision of Plant Production

Studies on vegetable cultivation on sandy soil	Monbusyo Grant-in-Aid for Scientific Research B(2)
Studies on development of administration technology for fruit and tree by injector to put insecticide	Research of Requisition
Studies on applying of native plantation to field of	Research of Requisition

sand

Effect of microorganism culture solution on growth of Phalaenopsis Research of Requisition

Studies on the way of irrigation for cultivation of Baker's Garlic in sand dune Research of Requisition

Studies on crop tolerance to water deficiency and salinity Allocation from the University Funds

Studies on practical aspects of melon cultivation on a sandponics bed system Allocation from the University Funds

Project**Research Fund****Division of Afforestation and Land Conservation*****Subdivision of Revegetation and Grassland Development***

Dynamics of Pine trees on sand dunes	Allocation from the University Funds.
Effects of salt spray on the growth of trees	Allocation from the University Funds
Tree growth, and nutrient and water dynamics of trees and in the soil	Allocation from the University Funds
Growth and reproductive characteristics of woody plants in arid areas	Allocation from the University Funds
Ecological studies on sand dune vegetation	Allocation from the University Funds
Regeneration mechanisms of woody plants on sand dunes	Monbusho Grant-in-Aid for Scientific Research C

Subdivision of Land Conservation

Sustainable development of irrigated agriculture in arid land	Monbusho Grant-in-Aid for International Scientific Research Program of Field Research
Development of efficient irrigation schedules and soil salinity monitoring system in productive green land	Monbusho Grant-in-Aid for Scientific Research B(2)
Irrigation schedules and water management through evapotranspiration monitoring	Monbusho Grant-in-Aid for Scientific Research of JSPS Fellows
Studies on water quality of irrigation water resources in the Tohaku irrigation project	Ministry of Agriculture, Forestry and Fisheries
Efficient water application of supplemental irrigation and two-dimensional capillary supply of drip irrigation in upland field	Allocation from the University Funds
Simultaneous movement of salt and water in unsaturated sand	Allocation from the University Funds
Characteristics of plant growth and soil water on artificial bed soil in sparse vegetation areas	Allocation from the University Funds