

2.4 List of Publications, Presentations and Reports

(1) Publications (Apr.1998-Mar.1999)

Subdivision of Natural Environment

- Kamichika, M. (Mar. 1998) : Climate and sand dunes in Tottori, Tottori Earth Science Society Journal, 2 , pp.65-72 (in Japanese)
- Ji, B., Otsuki, K., Akae, T. and Nagahori, K. (Aug. 1998) : Water management and regional environment in the Hetao Irrigation area Inner Mongolia, China, Jour. Japanese Soc. Irrigation, Drainage and Reclamation Eng., 66(8), pp.807-811 (in Japanese)
- Otsuki, K. and Oue, H. (Sep.1998) : Climate and environment of agricultural production in arid land, J. Japan Soc. Hydrol. & Water Resour., 11(5), pp.515-524 (in Japanese)
- Abe, Y., Otsuki, K. and Kamichika, M. (Nov. 1998) : Nighttime water movement near the surface of Tottori sand dune, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.25-29 (in Japanese)
- Kimura, R., Kondo, J., Otsuki, K. and Kamichika, M. (Jan.1999) : A prediction model for evapotranspiration from vegetated surface -Model and experimental verification-, J. Japan Soc. Hydrol. & Water Resour., 12(1), pp.17-27 (in Japanese with English Summary)
- Kimura, R., Otsuki, K. and Kamichika, M. (Jan.1999) : Relationships between the zero-plane displacement and the roughness length over sorghum and alfalfa canopies, J. Agric. Meteorol., 55(1), pp.15-24

Subdivision of Water Resources

- Takeuchi, S., Yasuda, S., Kawaharada, R. and Yano, T. (Apr. 1998) : Irrigation management of sweet pepper based on the measurements of transpiration under green house - Studies on the application of the sap flow measurement in irrigation management (I) -, Trans. of JSIDRE, 194, pp.41-49 (in Japanese with English summary)
- Ahmad, N., Kitamura, Y., Yano, T., Arshad, M. and Ramzan, M. (May 1998) : Comparison of irrigation management and planting practices for soil chemical and physical properties under continuous use of tile drainage water, Proceedings of International Symposium on Agro-environmental Issues and Future Strategies: Towards 21st Century, University of Agriculture Faisalabad, Pakistan, pp.25-33
- Regea, M., Kitamura, Y. and Yano, T. (Jun. 1998) : Assessment of surge flow irrigation and evaluation of furrow infiltration estimation methods, Journal of Arid Land Studies, Vol. 8, No.1, pp.37-46
- Wang, S., Kitamura, Y. and Yano, T. (Aug. 1998) : Leaching efficiency, desalinization and desodification processes in highly saline soil reclamation - A column study -, Trans. of JSIDRE, 196, pp.59-67
- Wang, S., Kitamura, Y. and Yano, T. (Sep. 1998) : Salt accumulation and reclamation of soils in Kzyl-Orda, Kazakstan, Proc. International Symposium on Arid Region Soil, Izmir/Turkey, pp.120-125
- Qiu, G. Y., Yano, T. and Momii, K. (Sep. 1998) : An improved methodology to measure evaporation from bare soil based on comparison of surface temperature with a dry soil surface, Journal of Hydrology, 210, pp.93-105
- Qiu, G. Y., Momii, K., Yano, T. and Sase, S. (Sep. 1998) : Separate estimation of evaporation and transpiration by ENWATBAL Model, J. Agric. Meteorol., 54(3), pp.275-282
- Qiu, G. Y., Momii, K., Yano, T., and Lascano, R. J. (Nov. 1999) : Experimental verification of a mechanistic model to partition evapotranspiration into soil water and plant evaporation, Agricultural and Forest Meteorology, 93, pp.79-93
- Wang, S., Kitamura, Y. and Yano, T. (Dec. 1998) : Reclamation of gypsiferous and nongypsiferous sodic soils by leaching, Soil Phys. Cond. Plant Growth, Jpn, 80, pp.21-32
- Ahmad, N., Arshad, M., Kitamura, Y., Bhutta, M. N. and Ramzan, M. (Dec. 1998) : Wheat response to

- continuous use of tile drainage water under different irrigation management practices, Pakistan Journal of Agricultural Sciences, Vol. 35, No. 1-4, pp.11-15
- Regea, M., Higaki, E., Kitamura, Y. Shainberg, I. and Yano, T. (Mar. 1999) : Response of soil hydraulic conductivity to prewetting rates and water quality, Soil Phys. Cond. Plant Growth, Jpn, 81, pp.5-14

Subdivision of Plant Ecophysiology

- Yoneyama, K., Takeuchi, Y., Ogasawara, M., Konnai, M., Sugimoto, Y. and Sassa, T. (Apr. 1998) : Cotylenins and fusicoccins stimulate seed germination of *Striga hermonthica* (Del.) Benth and *Orobanche minor* Smith, J. Agric. Food Chem., 46 (4), pp.1583-1586
- Ma, Y., Babiker, A. G. T., Sugimoto, Y. and Inanaga, S. (Apr. 1998) : Effect of medium composition on production of *Striga hermonthica* (Del.) germination stimulant(s) by *Menispermum dauricum* (DC.) Root Cultures, J. Agric. Food Chem., 46 (4), pp.1587-1592
- Matsui, T., Inanaga, S., Matsuura, A. and Sugimoto, Y. (Jun. 1998) : Studies on wheat varietal differences with regard to tolerance to deep sowing I. Relationship of grain weight, embryo weight and endosperm weight to emergence percentage, Sand Dune research, 45(1), pp.1-5 (in Japanese with English Summary)
- Matsui, T., Inanaga, S., Matsuura, A. and Sugimoto, Y. (Jun. 1998) : Studies on wheat varietal differences with regard to tolerance to deep sowing II. Effect of low soil moisture on grain weight and its distribution, Sand Dune Research, 45 (1), pp.6-10 (in Japanese with English Summary)
- Yoneyama, K., Ogasawara, M., Takeuchi, Y., Konnai, M., Sugimoto, Y., Seto, H. and Yoshida, S. (Jul. 1998) : Effect of jasmonates and related compounds on seed germination of *Orobanche minor* Smith and *Striga hermonthica* (Del.) Benth, Biosci. Biotechnol. Biochem., 62 (7), pp.1448-1450
- Ali, I. A., Kafkafi, U., Yamaguchi, I., Sugimoto, Y. and Inanaga, S (Jul. 1998) : Responses of oilseed rape plant to low root temperature and nitrate : ammonium ratios, J. Plant Nutr., 21 (7), pp.1463-1481
- Inanaga, S. (Jul. 1998) : Agriculture and desertification in Asia's semiarid areas, Global Environmental Science 6, Sustainable Use of Biological Resources, Iwanami-shoten, pp.97-122 (in Japanese)
- Shimotashiro, T., Inanaga, S., Sugimoto, Y. and Morita, S. (Jul. 1998) : Scientific subjects on plant roots (60), non-destructive method for root growth in soil using acoustic emission sensors, Agriculture and Horticulture, 73 (7), pp.817-821 (in Japanese)
- Sugimoto, Y., Inanaga, S., Kato, M., Shimizu, T., Hakoshima, T. and Isogai, A. (Oct. 1998) : Dechloroacutumine from cultured roots of *Menispermum dauricum*, Phytochemistry, 49 (5), pp. 1293-1297
- Matsuura, A., Inanaga, S. and Shimotashiro, T. (Nov. 1998) : Soil drying and root, Dictionary of Roots, Asakura Publishing, pp.228-230 (in Japanese)
- Shimotashiro, T., Inanaga, S. and Matsuura, A. (Nov. 1998) : AE Method, Dictionary of Roots, Asakura Publishing, pp.289-290 (in Japanese)
- Sugimoto, Y. (Nov. 1998): Production of secondary metabolites in plant root, Dictionary of Roots, Asakura Publishing, pp.367-370 (in Japanese)
- Shimotashiro, T., Inanaga, S., Sugimoto, Y., Matsuura A. and Ashimori, M. (Dec. 1998) : Non destructive method for root elongation measurement in soil using acoustic emission sensors II. Spatial measurement of single root elongation, Plant Prod. Sci., 1 (4), pp.248-253
- Matsui, T., Inanaga, S., Sugimoto Y. and Nakata, N. (Dec. 1998) : Chromosomal location of genes controlling final coleoptile length in wheat using chromosome substitution lines, Wheat Information Service, 87, pp.22-26
- Sahli, A. A., Ali, I. A., Lux, A., Luxova, M., Cohen, Y., Sugimoto Y. and Inanaga, S. (Feb. 1999) : Rooting, water uptake and xylem structure adaptation to drought of two sorghum cultivars, Crop Science, 39, pp.168-173

- Sugimoto, Y. (Feb. 1998): *Menispermum* species (Moonseed Vines) : *In vitro* culture, and the production of dauricine and other secondary metabolites, Biotechnology in Agriculture and Forestry, (ed.) Y. P. S. Bajaj, Vol. 43, "Medicinal and Aromatic Plants XI", pp.290-309
- Babiker, H. A. A., Sugimoto, Y., Saisho T. and Inanaga, S. (Mar. 1999) : Effects of chloride ions on acutumine and dechloroacutumine production by *Menispermum dauricum* root culture, Phytochemistry, 50 (5), pp.775-780
- Babiker, H. A. A., Sugimoto, Y., Saisho, T., Inanaga, S., Hashimoto, M. and Isogai, A. (Mar. 1999) : Biosynthetic relationship between acutumine and dechloroacutumine in *Menispermum dauricum* root culture, Biosci. Biotechnol. Biochem., 63 (3), pp.515-518

Subdivision of Revegetation and Grassland Development

- Yamanaka, N., Wang, Lin He, Yoshikawa, K. (Jun. 1998) : Seed production and seed bank of *Sabina vulgaris* Ant. in the Mu Us desert, Inner Mongolia, China, J. Jap. Soc. Reveget. Tech., 23, pp.211-219 (in Japanese with English Summary)
- Homma, K., Akashi, N., Abe, T., Hasegawa, M., Harada, K., Hirabuki, Y., Irie, K., Kaji, M., Miguchi, H., Mizoguchi, N., Mizunaga, H., Nakashizuka, T., Natume, S., Niiyama, K., Ohkubo, T., Sawada, S., Sugitaa, H., Takatsuki, S., Yamanaka, N. (Mar. 1999) : Geographical variation in the early regeneration process of Siebold's Beech (*Fagus crenata* BLUME) in Japan, Plant Ecology, 140: pp.129-138

Subdivision of Land Conservation

- Inoue, M., Simunek, J., Hopmans, J. W. and Clausnitzer, V. (May 1998) : In situ estimation of soil hydraulic functions using a multistep soil-water extraction technique, Water Resour. Res., 34(5), pp.1035-1050
- Yamamoto, T., Torii, K., Keshavarz, A., Pazira, E. and Ikeura, H. (Jun. 1998) : Irrigated agriculture and salinity problems in the Khuzestan Province of Iran - Sustainable development in irrigated agriculture in arid land areas- , Sand Dune Research, 45(1), pp.11-14 (in Japanese)
- Inoue, M. (Jun.1998) : Monitoring system for water flow and solute transport, Sand Dune Research, 45(1), pp.15-25 (in Japanese with English Summary)
- Yamamoto, T., Torii, K., Keshavarz, A., Pazira, E. and Ikeura, H. (Jul. 1998) : Irrigation scheduling for the Shavour Areas located in the Khuzestan Province of Iran - Aiming for sustainable development in irrigated agriculture in arid land areas-, J. Japan Soc. Hydrol. & Water Resour., 11(4), pp.387-395 (in Japanese with English Summary)
- Pazira, E., Keshavarz, A., Torii, K. and Yamamoto, T. (Jul.1998) : Studies on appropriate depth of leaching water (A case study in south-east part of Khuzistan Province, Iran), Proceedings of the international workshop on the use of saline and brackish water for irrigation 10th ICID Afro-Asian Regional Conference Bali, Indonesia, pp.328-338 (Bali, Indonesia)
- Ikeura, H., Yamamoto, T., Inoue, M. and Wei, J. (Oct.1998) : Water application efficiency of small-strip border irrigation method on sandy field in Mu Us Shamo Desert, Trans. JSIDRE, 197, pp.109-116 (in Japanese with English Summary)
- Inoue, M. (Nov.1998) : Evaluation of measuring precision of field-type dielectric soil moisture probes using salty sand, J.Japan Soc. Hydrol. & Water Resour., 11(6), pp.555-564 (in Japanese with English Summary)
- Nakashima, M., Inoue, M., Sawada, K. and Nicholl, C. (Nov.1998) : Measurement of soil water content by Amplitude Domain Reflectometry method and its calibration, 40(4), pp.509-519 (in Japanese with English Summary)
- Ame-Mensah F., T. Yamamoto and M.Inoue (Dec.1998) : Analyses of Natural Environment Data for Tank

- Irrigated Agriculture in Ghana, Trans. of JSIDRE, (198), pp.175-184
- Yamamoto, T., Torii, K., Keshavarz, A., Pazira, E. and Ikeura, H. (Dec. 1998) : Desertification and salinity problem in Iran - Sustainable development in irrigated agriculture in arid land areas-, Journal of arid land studies, 8(2), pp.141-149 (in Japanese)
- Fujimaki, H., Toride, N., Yamamoto, T. and Inoue, M. (Mar. 1999) : A convective random-walk for solute transport in soils, Soil Phys. Cond. Plant Growth, Jpn., (81), pp.43-54 (in Japanese with English Summary)

(2) Presentations (Apr.1998-Mar.1999)

Subdivision of Natural Environment

- Yoshihara, M., Matuoka, N., Kamichika, M., Otsuki, K. and Gu S (Jul. 1998) : Development of model to predict soil moisture in sand dune, Proc. of Agr. Met. Japan 1998, pp.94-95 (in Japanese)
- Ji, B., Otsuki, K., Akae, T. and Nagahori, K. (Jul. 1998) : Irrigation and drainage project and regional environment in the Inner Mongolia Hetao Irrigation District, Proc. of JSIDRE Annual Meeting in 1998, pp.364-365 (in Japanese)
- Tasumi, M., Otsuki, K. and Kamichika, M. (Oct. 1998) : Rice cultivation and its irrigation system in dry zone, Sri Lanca, Proc. of JSIDRE Chugoku-Shikoku Branch Annual Meeting in 1998, pp.81-83
- Otsuki K. (Oct. 1998) : Soil moisture simulation soft to support upland irrigation management, Proc. of JSIDRE Chugoku-Shikoku Branch Annual Meeting in 1998, pp.94-96 (in Japanese)
- Otsuki, K., Nakagame, E., Kamichika, M. and Inoue, M. (Nov. 1998) : Effect of paper mulch to modify the micoclimate, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.42-43 (in Japanese)
- Kamichika, M., Nakagame, E., Otsuki, K., Iwasaki, M. and Ito, K. (Nov. 1998) : On the growth reaction of Azuki beans in recycled paper mulch application test, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.44-47 (in Japanese)
- Okada, S., Otsuki, K. and Kamichika, M. (Nov. 1998) : Effect of tilted angle of slopes and solar altitude on spectral reflectance, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.66-69 (in Japanese)
- Gu S., Otsuki, K. and Kamichika, M. (Nov. 1998) : The effect of albedo on net radiation and the estimation of albedo on Tottori Sand Dune, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.70-73
- Matsubara, Y., Otsuki, K. and Kamichika, M. (Nov. 1998) : Wind environment and sand distribution in the Tottori Sand Dunes, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.94-97 (in Japanese)
- Hatsuta, T., Otsuki, K., Kamichika, M., Hayashi, T. and Waka, R. (Nov. 1998) : Possibility of electrical generation using natural energies (Solar, Wind), Agricultural Meteorology of Chugoku and Shikoku, 11, pp.94-97 (in Japanese)
- Nakamoto, K., kamichika, M., Ushijima H. and Hayakawa, S. (Nov. 1998) : Distribution of CO₂ above fodder crop canopy, Agricultural Meteorology of Chugoku and Shikoku, 11, pp.88-89 (in Japanese)

Subdivision of Water Resources

- Ahmad, N., Kitamura, Y., Yano, T., Abbas, F. and Awan, Q. A. (Jul. 1998) : Comparison of irrigation methods (raingun sprinkler, raingun sprinkler cum border and border irrigation) for water saving and wheat yield, Proc. of Annual Meeting of JSIDRE, pp.152-153
- Kitamura, Y., Yano, T. and Oba, T. (Jul. 1998) : Water and salt balance in crop rotation-practiced lands located in arid region - Case study in Kzyl-Orda, Kazakstan -, Proc. of Annual Meeting of JSIDRE, pp.154-155 (in Japanese)
- Melkamu Regea, Higaki, E., Kitamura, Y., Shainberg, I. and Yano, T. (Jul. 1998) : Effect of water quality and prewetting rate on column hydraulic conductivity, Proc. of Annual Meeting of JSIDRE, pp.650-651
- Wang, S., Kitamura, Y. and Yano, T. (Jul. 1998) : Effect of leaching method on reclamation of gypsiferous and nongypsiferous saline and sodic soils, Proc. of Annual Meeting of JSIDRE, pp.654-655
- Ahmad, N., Kitamura, Y., Yano, T. and Awan, Q. A. (Oct. 1998) : Drainage and drainage experiences in the irrigated Indus Plain of Pakistan, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.78-80
- Yano, T., Kitamura, Y., Yang, S. L. and Takagi S. (Oct. 1998) : Evapotranspiration under saline water application by drip irrigation, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.91-93 (in Japanese)

Subdivision of Plant Ecophysiology

- Ma, Y., Sugimoto, Y., Inanaga, S. and Babiker, A. G. T. (Apr. 1998) : *Striga hermonthica* germination stimulants from *Menispermum dauricum* and *Stephania cepharantha* root cultures, Abstracts of Annual Meeting of Jpn. Soc. Biosci. Biotech. Agrochem., p.73
- Yoneyama, K., Takeuchi, Y., Konnai, M., Sasa, T., Sugimoto, Y., Kato, N and Sugawara, F. (Apr. 1998) : Germination induction of parasitic weeds by fusicocanes, Abstracts of Annual Meeting of Jpn. Soc. Biosci. Biotech. Agrochem., p.75 (in Japanese)
- Babiker, H. A. A., Sugimoto, Y., Saisho, T., Inanaga, S. and Isogai, A. (Apr. 1998): Biosynthetic relationship between acutumine and dechloroacutumine in *Menispermum dauricum* cultured roots, Abstracts of Annual Meeting of Jpn. Soc. Biosci. Biotech. Agrochem., p.257
- Ali, I. A., Inanaga, S. and Sugimoto, Y. (Apr. 1998) : Water transport in the stem in response to root temperature, Jpn. J. Crop Sci. 67 Extra Issue, p.62-63
- Inanaga, S., Tsukamoto, K., Sugimoto, Y., Matsuura, A., Lux, A., Morita, S. and Tanimoto, E. (Apr. 1998) : Effect of Ca on root elongation of soybean seedlings subjected to NaCl stress, Jpn. J. Crop Sci. 67 Extra Issue, p.218-219 (in Japanese)
- A. Lux, M. Luxova, S. Morita, J. Abe, K. Tsukamoto, E. Tanimoto, S. Inanaga and Y. Sugimoto (Apr. 1998) : Silicon distribution in endodermis of rice seminal roots, Jpn. J. Crop Sci. 67 Extra Issue, p.220-221
- Shimotashiro, T., Inanaga, S., Sugimoto, Y. and Dokai, H. (Apr. 1998) : Non-destructive measuring for distribution of root number on vertical soil plane using AE method, Jpn. J. Crop Sci. 67 Extra Issue, p.62 (in Japanese)
- Y. Sugimoto, S.C.M. Wichgert, J.W.J.F. Thuring and B. Zwanenburg (Aug. 1998) : Synthesis of all eight stereoisomers of sorgolactone and their biological activities, Abstracts of 16th International Conference on Plant Growth Substances, p.156
- K. Yoneyama, Y. Takeuchi, M. Ogasawara, M. Konnai, Y. Sugimoto and T. Sassa (Aug. 1998) : Stimulation of *Orobanche* and *Striga* seed germination by fungal metabolites, cotylenins and fusicocins, Abstracts of 16th International Conference on Plant Growth Substances, p.156
- Y. Takeuchi, K. Yoneyama, M. Ogasawara, M. Konnai, Y. Sugimoto, H. Seto, S. Yoshida, H. Fujisawa and K. Watanabe (Aug. 1998) : Effects of jasmonates and related compounds on seed germination of root parasitic weeds, Abstracts of 16th International Conference on Plant Growth Substances, p.156
- Nakajima, H., Kato, K., Hamasaki, T., Sugimoto, Y., Yoneyama, K. and Takeuchi, Y. (Oct. 1998) : *Striga hermonthica* germination stimulant(s) produced by microorganisms, Abstracts of Annual Meeting of Jpn. Soc. Biosci. Biotech. Agrochem., Kansai Branch, p.123 (in Japanese)
- Sugimoto, Y., Kinoshita, H., Babiker, A. G. T., Yabuta, S., Inanaga, S. and Itai, A. (Oct. 1998) : Ethylene involvement in *Striga hermonthica* germination, Abstracts of the XXXIII Annual Meeting of the Jpn. Soc. for the Chemical Regulation of Plants, p.17-18 (in Japanese)
- Yoneyama, K., Ogasawara, M., Takeuchi, Y., Sugimoto, Y., Kato, N., Sasa, T. and Sugawara, F. (Oct. 1998) : Structural requirements of fusicocanes for stimulation of seed germination of parasitic weeds, Abstracts of the XXXIII Annual Meeting of the Japanese Society for the Chemical Regulation of Plants, p.50 (in Japanese)
- Ali I. A., S. Inanaga and Y. Sugimoto (Mar. 1999) : Low temperature stress of root influences on xylem transport of nitrate and root-borne cytokinins and gibberellins, Gordon Research Conference on Temperature Stress in Plants, Ventura, California, USA

Subdivision of Plant Production

- Kinefuchi, S. and Hamamura, K. (Nov.1998) : The effects of leaf water potential on diurnal change in leaf greenness of melon , Abstracts of autumn meeting of Japanese Society for Horticultural Science, p.275 (in Japanese)

Subdivision of Revegetation and Grassland Development

- Tamai, S., Hara, S., Yamane, M., (Apr. 1998) : Studies on tree growth under arid conditions (I) Water and nutrient dynamics in *Machilus thunbergii* Sieb. et Zucc., Proc. of Annual Meeting of The Jap. For. Soc.

1998, p.146

Yamanaka, N., Han, H., Ma, Q., Wang, X., Tamai, S., (Apr. 1998) : Stand structure of *Pinus tabulaeformis* forests in the Taiyue Forest Region, Shanxi Province, China, Proc. of Annual Meeting of The Jap. For. Soc. 1998, p.170

Subdivision of Land Conservation

Ikeura, H., Yamamoto, T., Inoue, M. and Wei, J. (Jul. 1998) : Irrigated agriculture and the characteristics of soil salinization in Mu Us Shamo Desert, Proc. of JSIDRE, pp.158-159 (in Japanese)

Tsujita, A., Toride, T. and Inoue, M. (Jul.1998) : Solute hydrodynamic dispersion under unsaturated flow conditions, Proc. of JSIDER, pp.656-657 (in Japanese)

Ame-Mensah, F. (Jul. 1998) : Soil moisture variability in some inland valley rice growing sites of Ghana, Proc. of JSIDRE, pp.160-161

Wei, J., Yamamoto, T. and Inoue, M. (Jul. 1998) : Evaluation of factors which affect germination percentage by air-seeding using the quantification theory I - Study about fixing of moving dune in Yikezhaomeng of Inner Mongolia of China -, Proc. of JSIDRE, pp.160-161 (in Japanese)

Inoue, M. and Yokoyama, J. (Jul.1998) : Two-dimensional subsurface water flow simulation during irrigation using SWMS-2D code., Proc. of JSIDER, pp.666-667 (in Japanese)

Morii, T. and Inoue, M. (Jul.1998) : Measurement of field-saturated hydraulic conductivity based on pressure infiltrometer method, Proc. of JSIDRE, pp.160-161 (in Japanese)

Fujimaki, H., Yamamoto, T. and Inoue, M. (Jul. 1998) : Estimation of surface resistance function by numerical analysis of water content profile under steady-state evaporation, Proc. of JSIDRE, pp.108-109 (in Japanese)

Ootoshi, M., Yamamoto, T., Inoue, M. and Uchida, O. (Jul. 1998) : Measurement precision and monitoring of water erosion using photogrammetry, Proc. of JSIDRE, pp.466-467 (in Japanese)

Umeda, Y. and Inoue, M. (Oct. 1998) : Application of multi-step outflow method to test for soil hydraulic properties, Proc. of Civil Engineers Society, 53, pp.652-653 (in Japanese)

Yamamoto, T., Wei, J., Inoue, M. and Fujimaki, H. (Oct. 1998) : Evaluation of factors which affect evapotranspiration on topographic conditions - Scheduling of drip irrigation in arid regions -, Proc. of JSIDRE, Branch of Chugoku-shikoku, 53, pp.126-127 (in Japanese)

Fujimaki, H., Yamamoto, T., Inoue, M. and Toride, N. (Oct. 1998) : A convective random-walk model for solute transport in soils, Proc. of JSIDRE, Branch of Chugoku-shikoku, 53, pp.170-172 (in Japanese)

Togashi, T., Fujimaki, H., Inoue, M. and Yamamoto, T. (Oct. 1998) : Measurement of soil water retention curve using unequilibrium type multi-step suction method and an evaporation method, Proc. of JSIDRE, Branch of Chugoku-shikoku, 53, pp.173-174 (in Japanese)

Arai, M., Keren, R., Yamamoto, T. and Inoue, M. (Oct. 1998) : Hydraulic conductivity of montmorillonitic and kaolinic soils as affected by water quality under saturated and unsaturated conditions, Proc. of JSIDRE, Branch of Chugoku-shikoku, 53, pp.175-177

Cho, H., De Rooij, G. H. and Inoue, M. (Oct. 1998) : The role of the induction zone in occurring fingered flow, 1998 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, pp. 174 (Baltimore, Maryland, USA)

Toride, N., Leij, F. J. and Inoue, M. (Oct. 1998) : Solute hydrodynamic dispersion under steady and unsteady flow conditions, 1998 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, pp.77 (Baltimore, Maryland, USA)

Otsuki, K., Nakagame, E., Kamichika, M. and Inoue, M. (Nov., 1998) : Effect of paper mulch to modify the microclimate, Agricultural Meteorology of Chugoku Shikoku, 11, pp.42-43

List of Publications, Presentations and Reports

(3) Reports (Apr.1998-Mar.1999)

Subdivision of Natural Environment

- Kamichika, M., Hayakawa, S., Tani, H., Otsuki, K., Marumoto, T. and Yamamoto, T. (Mar. 1998) : Planning of vapor fixation for water resource in arid lands, Report for Monbusho Grant-in-Aid for Scientific Research (A)(1) (in Japanese)
- Kamichika M., Okada, S. and Matsubara, Y. (Mar. 1998) : On the movement of sand and change of landscape of Tottori Sand Dunes, Report of investigation for landscape management in Tottori Sand Dune, pp.17-31(in Japanese)
- Otsuki, K. (Mar.1999) : Research on the tentative upland water requirement at low level before accomplishment of the project, JSIDRE report on the water requirement plan and upland irrigation method for the Kochi-Seinan Reclamation and Construction Project (in Japanese)
- Otsuki, K. (Mar.1999) : Investigation of salt concentration of the paddy field in the lower district of Yoshino River, JSIDRE report on the leaching system for the agricultural land antidisaster project in the Yoshino River Delta (in Japanese)
- Otsuki, K. (Mar.1999) : Irrigation technique in Miyako district, Report on the irrigation effect in the Miyako Irrigation Project, pp.1-7 (in Japanese)
- Otsuki, K., Nakagame, E. and Kamichika, M. (Mar. 1998) : Effect of recycled paper mulch on the modification of microclimate and crop growth, Report for Monbusho Grant-in-Aid for Scientific Research, Inter-University Cooperative Research, (in Japanese)pp.51-60
- Otsuki, K. and Haccho, N. (Mar. 1998) : Water management and irrigated agriculture in Pakistan, Report for Monbusho Grant-in-Aid for Scientific Research (A)(1) (in Japanese)
- Yomota, A., Miura, T., Otsuki, K. and Kihara, Y. (Mar. 1998) : Report for Monbusho Grant-in-Aid for Scientific Research (A)(1) (in Japanese)

Subdivision of Water Resources

- Yano, T. (Mar. 1999) : Effect of salinity on moisture uptake of plant roots, Report for Monbusho Grant-in-Aid, International Academic Research 'Water, Salt and Nutrient Interaction in Plant Growth' (Representation : Yano, T.), pp.3-10 (in Japanese)
- Kitamura, Y. (Mar. 1999) : Present state of water resources and water utilization system in Israel - Background of the development of the advanced Israeli irrigated-agriculture -, Report for Monbusho Grant-in Aid, International Academic Research 'Water, Salt and Nutrient Interaction in Plant Growth' (Representation : Yano, T.), pp.19-35 (in Japanese)

Subdivision of Plant Ecophysiology

- Sugimoto, Y. (Mar. 1999) : Physiological and biochemical response of plants to salinity stress, Report for Saneyoshi Scholarship Foundation, p. 67-70 (in Japanese)

Subdivision of Revegetation and Grassland Development

- Tamai, S. and Nagasaki, Y. (Mar. 1999) : Salt tolerance and nutrient dynamics of trees, Report for Monbusho Grant-in Aid, International Academic Research 'Water, Salt and Nutrient Interaction in Plant Growth' (Representation : Yano, T.), pp.11-18 (in Japanese)

Subdivision of Land Conservation

- Yamamoto, T. (Mar. 1999) : Studies on water quality of irrigation water resources in the Tohaku Irrigation Project Areas, The 1998 Annual Report of Grant-in-Aid for the Ministry of Forestry and Fisheries,

pp.108-123 (in Japanese)

Inoue, M. and T. Shimizu (Dec. 1998) : Experimental set-up to continuously monitor water flow and solute transport in unsaturated large weighing lysimeters, ALRC's Annual Report 1997-98, pp.1-14

Inoue, M. (Mar. 1999) : Leaf vegetable cultivation in sandy soil under controlled soil water conditions in the root zone, Report for Monbusho Grant-in Aid, International Academic Research 'Water, Salt and Nutrient Interaction in Plant Growth' (Representation : Yano, T.), pp.37-50 (in Japanese)