

Publications

1. Official publications

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- 1) Bulletin of National Institute for Agro-Environmental Sciences
 - 2) Miscellaneous Publication of National Institute for Agro-Environmental Sciences, No.30 - No.31
 - 3) NIAES Annual Report 2006
 - 4) NIAES Research Executive Summary (Japanese ed.) (Kenkyu seika johu), No.23
 - 5) Annual Report of National Institute for Agro-Environmental Sciences (Japanese ed.) (Nogyo kankyo gijutsu kenkyusho nenpo), No.23
 - 6) NIAES News (Japanese ed.) (No-kan-ken nyusu), No.71 - No.74
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2. Research Papers published by the NIAES staff

Scientific Papers	English	140
	Japanese	47
	Others	5
Proceedings (incl. Abstracts)	English	134
	Japanese	404
Others	English	38
	Japanese	77

3. Research staff activities (English papers) NIAES staff's names are boldfaced.

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Abe K Ozaki Y	Wastewater treatment by using kenaf in paddy soil and effect of dissolved oxygen concentration on efficiency	Ecological Engineering	29(2)	125-132	2007
Akiyama H Yan X Yagi K	Estimations of emission factors for fertilizer-induced direct N ₂ O emissions from agricultural soils in Japan: summary of available data	Soil Science and Plant Nutrition	52(6)	774-787	2006
Amano T Ushiyama K Fujita G Higuchi H	Costs and benefits of flocking in foraging white-fronted geese (<i>Anser albifrons</i>): effects of resource depletion	Journal of Zoology	269(1)	111-115	2006
Amano T Ushiyama K Fujita G Higuchi H	Foraging patch selection and departure by non-omniscient foragers: A field example in white-fronted geese	Ethology	112(6)	544-553	2006
Amano T Ushiyama K Moriguchi S Fujita G Higuchi H	Decision-making in group foragers with incomplete information: Test of individual-based model in geese	Ecological Monographs	76(4)	601-616	2006
Ando S Tsushima S Tagiri A Kamachi S Konagaya K Hagio T Tabei Y	Increase in <i>BrAO1</i> gene expression and aldehyde oxidase activity during clubroot development in Chinese cabbage (<i>Brassica rapa</i> L.)	Molecular Plant Pathology	7(4)	223-234	2006

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Baba K Okamura T Yamamoto H Yamamoto T Ohama M Ueyama N	Dioxotungsten 1,2-benzenedithiolate complex stabilized by NH...S hydrogen bonds	Inorganic Chemistry	45(20)	8365-8371	2006
Borjigidai A Hikosaka K Hirose T Hasegawa T Okada M Kobayashi K	Seasonal changes in temperature dependence of photosynthetic rate in rice under a free-air CO ₂ enrichment	Annals of Botany	97(4)	549-557	2006
Cheng W Sudo S Tsuruta H Yagi K Hartley A	Temporal and spatial variations in N ₂ O emissions from a Chinese cabbage field as a function of type of fertilizer and application	Nutrient Cycling in Agroecosystems	74(2)	147-155	2006
Cho K Torres N L Subramanyam Deepak S A Sardesai N Han O Williams C E Ishii H Iwahashi H Rakwal R	Protein extraction/solubilization protocol for monocot and dicot plant gel-based proteomics	Journal of Plant Biology	49(6)	413-420	2006
Chu H Fujii T Morimoto S Lin X Yagi K Hu J Zhang J	Community structure of ammonia-oxidizing bacteria under long-term application of mineral fertilizer and organic manure in a sandy loam soil	Applied and Environmental Microbiology	73(2)	485-491	2007
Chu H Hosen Y Yagi K	NO, N ₂ O, CH ₄ and CO ₂ fluxes in winter barley field of Japanese Andisol as affected by N fertilizer management	Soil Biology and Biochemistry	39(1)	330-339	2007
Chung W-H Ishii H Nishimura K Fukaya M Yano K Kajitani Y	Fungicide sensitivity and phylogenetic relationship of anthracnose fungi isolated from various fruit crops in Japan	Plant Disease	90(4)	506-512	2006
Dabrowska-Zielinska K Inoue Y Kowalik W Gruszczynska M	Modeling of crop and soil parameters using C and L band of SAR images	Journal of Water and Land Development	9	3-20	2005
Davidson G Ouchi K Saito G Ishitsuka N Mohri K Uratsuka S	Single look classification accuracy for polarimetric SAR	International Journal of Remote Sensing	27(21-22)	5073-5080	2006
Ding W Cai Y Cai Z Yagi K Zheng X	Nitrous oxide emissions from an intensively cultivated maize-wheat rotation soil in the North China Plain	Science of the Total Environment	373(2-3)	501-511	2007
Douangsavanh L Manivong V Polthanee A Roengsak Katawatin R Inoue Y	Indigenous knowledge on soil classification of ethnic groups in Luang Prabang Province of the Lao PDR	Journal of Mountain Science	3(3)	247-258	2006
Du M Maki T Kawashima S	Wind tunnel experimental study on the effects of polyethylene windbreak net on evaporation	Journal of Ecotechnology Research	12(1-2)	122-125	2006

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Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Eguchi S Sawamoto M Shiba M	Nitrate fluxes and nitrate removal in the shallow aquifer below an Andisol field	N management in agrosystems in relation to the Water Framework Directive: Proceedings of the 14th N Workshop, October 2005, Maastricht, the Netherlands [Schröder J.J. and Neeteson J.J. eds.] (Report, Plant Research International)	116	375-377	2006
Engstrom R Hope H Kwon H Harazono Y Mano M Oechel W	Modeling evapotranspiration in Arctic coastal plain ecosystems using a modified BI-OME-BGC model	Journal of Geophysical Research	111	G02021, doi:10.1029/2005JG000102	2006
Fujii K Takagi K Hiradate S Iwasaki A Harada N	Biodegradation of methylthio-s-triazines by <i>Rhodococcus</i> sp. strain FJ1117YT, and production of the corresponding methyl-sulfinyl, methylsulfonyl, and hydroxy analogues	Pest Management Science	63(3)	254-260	2007
Fujii Y Pariasca D Shibuya T Yasuda T Kahn B Waller G R	Plant-box method: a specific bioassay to evaluate allelopathy through root exudates	Allelopathy, New Concepts and Methodology [Fujii Y and Hiradate S eds.]		39-56	2007
Fukuhara T Koga R Aoki N Yuki C Yamamoto N Oyama N Udagawa T Horiuchi H Miyazaki S Higashi Y Takeshita M Ikeda K Arakawa M Matsumoto N Moriyama H	The wide distribution of endornaviruses, large double-stranded RNA replicons with plasmid-like properties	Archives of Virology	151(5)	995-1002	2006
Furubayashi A Hiradate S Fujii Y	Role of catechol structure in the adsorption and transformation reactions of L-DOPA in soils	Journal of Chemical Ecology	33(2)	239-250	2007
Genka H Baba T Tsuda M Kanaya S Mori H Yoshida T Noguchi M T Tsuchiya K Sawada H	Comparative analysis of <i>argK-tox</i> clusters and their flanking regions in Phaseolotoxin-producing <i>Pseudomonas syringae</i> pathovars	Journal of Molecular Evolution	63(3)	401-414	2006
Hamasaki K Matsui M	Development and reproduction of an aphidophagous coccinellid, <i>Propylea japonica</i> (Thunberg) (Coleoptera: Coccinellidae), reared on an alternative diet, <i>Ephestia kuehniella</i> Zeller (Lepidoptera: Pyralidae) eggs	Applied Entomology and Zoology	41(2)	233-237	2006
Harada N Takagi K Fujii K Iwasaki A	Transformation of methylthio-s-triazines via sulfur oxidation by strain JUN7, a <i>Bacillus cereus</i> species	Soil Biology and Biochemistry	38(9)	2952-2957	2006
Harazono Y Mano M Miyata A Yoshimoto M Zulueta R C Vourlitis G L Kwon H Oechel W	Temporal and spatial differences of methane flux at arctic tundra in Alaska	Memoirs of National Institute of Polar Research, Special Issue	59	79-95	2006

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Hashidoko Y Kitagawa E Iwahashi H Purnomo E Hasegawa T Tahara S	Design of sphingomonad-detecting probes for a DNA Array, and its application to investigate the behavior, distribution, and source of rhizospheric <i>sphingomonas</i> and other sphingomonads inhabiting an acid sulfate soil paddock in Kalimantan, Indonesia	Bioscience, Biotechnology, and Biochemistry	71(2)	343-351	2007
Hayashi K Nakagawa A Itsubo N Inaba A	Expansion of damage function for stratospheric ozone depletion to cover major endpoints regarding life cycle impact assessment	International Journal of Life Cycle Assessment	11(3)	150-161	2006
Hayashi K Nishimura S Yagi K	Ammonia volatilization from the surface of a Japanese paddy field during rice cultivation	Soil Science and Plant Nutrition	52(4)	545-555	2006
Hayashi K Noguchi I Ohizumi T Aikawa M Kitamura M Takahashi A Matsuda K Minami Y Hara H	Wet deposition chemistry in Japan: Key feature of the Japanese Acid Deposition Survey from 1983 to 2002	IGACTivities Newsletter of the International Global Atmospheric Chemistry Project	2006(33)	2-6	2006
Hiradate S	Iron dissolution reaction of mugineic acids for iron acquisition of graminaceous plants	Allelopathy, New Concepts and Methodology [Fujii Y and Hiradate S eds.]		109-122	2007
Hiradate S	Isolation strategies for finding bioactive compounds: specific activity vs. total activity	Natural Products for Pest Management [Rimando A M and Duke S O eds.] (ACS Symposium Series)	927	113-126	2006
Hiradate S Furubayashi A Uchida N Fujii Y	Adsorption of 2,4-dichlorophenoxyacetic acid by an Andosol	Journal of Environmental Quality	36(1)	101-109	2007
Hiradate S Hirai H Hashimoto H	Characterization of allophanic Andisols by solid-state ^{13}C , ^{27}Al , and ^{29}Si NMR and by C stable isotopic ratio, $\delta^{13}\text{C}$	Geoderma	136(3-4)	696-707	2006
Hiradate S Yonezawa T Takesako H	Isolation and purification of hydrophilic fulvic acids by precipitation	Geoderma	132(1-2)	196-205	2006
Hirota M Tang Y Hu Q Hirata S Kato T Mo W Cao G Mariko S	Carbon dioxide dynamics and controls in a deep-water wetland on the Qinghai-Tibetan plateau	Ecosystems	9(4)	673-688	2006
Honda M Shindo J Okamoto K Kawashima H	Increase of residential electricity consumption in urban and rural China by province	Poster paper at the International Association of Agricultural Economists Conference		http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=22207&ftype=.pdf	2006
Hosono T Hosoi N Akiyama H Tsuruta H	Measurements of N_2O and NO emissions during tomato cultivation using a flow-through chamber system in a glasshouse	Nutrient Cycling in Agroecosystems	75(1-3)	115-134	2006
Iizumi T Hori ME Yokozawa M Nakagawa H Hayashi Y Kimura F	Impact of global warming on rice production in Japan based on five coupled atmosphere-ocean GCMs	SOLA	2	156-159	2006
Ikenaka Y Eun H Ishizaka M Miyabara Y	Metabolism of pyrene by aquatic crustacean, <i>Daphnia magna</i>	Aquatic Toxicology	80(2)	158-165	2006

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Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Inoue Y Olioso A	Estimating dynamics of ecosystem CO ₂ flux and biomass production in agricultural field on the basis of synergy between process models and remotely sensed signatures	Journal of Geophysical Research	111	D24S91, doi:10.1029/2006JD007469	2006
Inoue Y Penuelas J	Relationship between light use efficiency and photochemical reflectance index as affected by soil water content	International Journal of Remote Sensing	27	5249-5254	2006
Iqbal Z Nasir H Hiradate S Fujii Y	Plant growth inhibitory activity of <i>Lycoris radiata</i> Herb. and the possible involvement of lycorine as an allelochemical	Weed Biology and Management	6(4)	221-227	2006
Ishiguro M Makino T Hattori Y	Sulfate adsorption and surface precipitation on a volcanic ash soil (allophanic andisol)	Journal of Colloid and Interface Science	300(2)	504-510	2006
Itahashi S Komada M Takeuchi M	Methods for estimating the nitrogen load on a catchment scale	JARQ	40(2)	131-142	2006
Iwasaki A Takagi K Yoshioka Y Fujii K Kojima Y Harada N	Isolation and characterization of a novel simazine-degrading β -proteobacterium and detection of genes encoding s-triazine-degrading enzymes	Pest Management Science	63(3)	261-268	2007
Kajiwarra H Itou Y Imamaki A Nakamura M Mita K Ishizaka M	Proteomic analysis of silkworm fat body	Journal of Insect Biotechnology and Sericology	75(2)	47-56	2006
Kamo T Kato K Hiradate S Nakajima E Fujii Y Hirota M	Evidence of cyanamide production in hairy vetch <i>Vicia villosa</i>	Natural Product Research	20(5)	429-433	2006
Kamo T Sato M Kato K Hiradate S Nakajima E Fujii Y Hirota M	Quantification of cyanamide contents in herbaceous plants	Bioscience, Biotechnology, and Biochemistry	70(9)	2310-2312	2006
Kanno T Saito M Ando Y Macedo M C M Nakamura T Miranda C H B	Importance of indigenous arbuscular mycorrhiza for growth and phosphorus uptake in tropical forage grasses growing on an acid, infertile soil from the Brazilian Savannas	Tropical Grasslands	40	94-101	2006
Kato T Tang Y Gu S Hirata M Du M Li Y Zhao X	Temperature and biomass influences on interannual changes in CO ₂ exchange in an alpine meadow on the Qinghai-Tibetan Plateau	Global Change Biology	12(7)	1285-1298	2006
Kawabe M Yoshida T Teraoka T Arie T	FCD1 encoding protein homologous to cellobiose: Quinone oxidoreductase in <i>Fusarium oxysporum</i>	Gene	382	100-110	2006
Kawakami T Eun H Ishizaka M Endo S Tamura K Higashi T	Adsorption and desorption characteristics of several herbicides on sediment	Journal of Environmental Science and Health, Part B	42(1)	1-8	2007
Kim Y Eun H Katase T Fujiwara H	Vertical distributions of persistent organic pollutants (POPs) caused from organochlorine pesticides in a sediment core taken from Ariake bay, Japan	Chemosphere	67(3)	456-463	2007

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Kobara Y Nishimori M Wei Y-F Ishihara S Yokoyama A Horio T	The applicability of the environmental fate estimates of current-use-pesticides using a multimedia model based on poly-parameter linear energy relationships	Organohalogen Compounds	68	1123-1126	2006
Kobayashi K Okada M Kim H Y Lieferring M Miura S Hasegawa T Kuwagata T	Paddy rice responses to free-air [CO ₂] enrichment	Managed ecosystems and CO ₂ : Case studies, processes, and perspectives [Nosberger J, Long S P, Norby R J, Stitt M, Hendrey G R, Blum H eds.] (Ecological Studies)	187	87-104	2006
Kuwagata T	The characteristics of agro-climatic environments in subtropical islands around Japan	JARQ	40(3)	251-261	2006
Kuwagata T Murai-Hatano M	Osmotic water permeability of plasma and vacuolar membranes in protoplasts II. Theoretical basis	Journal of Plant Research	120(2)	193-208	2007
Lee M-S Mo W H Koizumi H	Soil respiration of forest ecosystems in Japan and global implications	Ecological Research	21(6)	828-839	2006
Lou Y Mizuno T Kobayashi K Okada M Hasegawa T Hoque Md M Inubushi K	CH ₄ production potential in a paddy soil exposed to atmospheric CO ₂ enrichment	Soil Science and Plant Nutrition	52(3)	769-773	2006
Maeda Y Horita M Shinohara H Kiba A Ohnishi K Tsushima S Hikichi Y	Analysis of sources of oxolinic acid resistant field strains of <i>Burkholderia glumae</i> based on rep-PCR analysis and nucleotide sequences of <i>gyrB</i> and <i>rpoD</i>	Journal of General Plant Pathology	73(1)	46-52	2007
Maeda Y Shinohara H Kiba A Ohnishi K Furuya N Kawamata Y Ezaki T Vandamme P Tsushima S Hikichi Y	Phylogenetic study and multiplex PCR-based detection of <i>Burkholderia plantarii</i> , <i>Burkholderia glumae</i> and <i>Burkholderia gladioli</i> using <i>gyrB</i> and <i>rpoD</i> sequences	International Journal of Systematic and Evolutionary Microbiology	56(5)	1031-1038	2006
Maejima Y Makino T Takano H Kamiya T Sekiya N Itou T	Remediation of cadmium-contaminated paddy soils by washing with chemicals: Effect of soil washing on cadmium uptake by soybean	Chemosphere	67(4)	748-754	2007
Makino T Sugahara K Sakurai Y Takano H Kamiya T Sasaki K Itou T Sekiya N	Remediation of cadmium contamination in paddy soils by washing with chemicals: Selection of washing chemicals	Environmental Pollution	144(1)	2-10	2006
Malmgren B A Hulugalla R Lindeberg G Inoue Y Hayashi Y Mikami T	Oscillatory behavior of monsoon rainfall over Sri Lanka during the late 19th and 20th centuries and its relationships to SSTs in the Indian Ocean and ENSO	Theoretical and Applied Climatology	89(1-2)	115-125	2007
Maruyama A Kuwagata T Ohba K Maki T	Dependence of solar radiation transport in rice canopies on developmental stage	JARQ	41(1)	39-45	2007

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Matsui T Kobayasi K Yoshimoto M Hasegawa T	Stability of rice pollination in the field under hot and dry conditions in the Riverina region of New South Wales, Australia	Plant Production Science	10(1)	57-63	2007
Matsuno Y Nakamura K Masumoto T Kato T Sato Y	Prospects for multifunctionality of paddy rice cultivation in Japan and other countries in monsoon Asia	Paddy and Water Environment	4(4)	189-197	2006
Matsuura T Shinoara H Inoue Y Azegami K Tsushima S Tsukamoto T Mizuno A	<i>Erwinia</i> isolates from the bacterial shoot blight of pear in Japan are closely related to <i>Erwinia pyrifoliae</i> based on phylogenetic analyses of <i>gyrB</i> and <i>rpoD</i> genes	Journal of General Plant Pathology	73(1)	53-58	2007
Mikami M Shi G Uno I Yabuki S Iwasaka Y Yasui M Aoki T Tanaka T Kurosaki Y Masuda K Uchiyama A Matsuki A Sakai T Takemi T Nakawo M Seino N Ishizuka M Satake S Fujita K Hara Y Kai K Kanayama S Hayashi M Du M Kanai Y Yamada Y Zhang X Shen Z Zhou H Abe O Nagai T Tsutsumi Y Chiba M	Aeolian dust experiment on climate impact: An overview of Japan-China joint project ADEC	Global and Planetary Change	52(1-4)	142-172	2006
Minamikawa K Sakai N Yagi K	Methane emission from paddy fields and its mitigation options on a field scale	Microbes and Environments	21(3)	135-147	2006
Mishima S Taniguchi S Komada M	Recent trends in nitrogen and phosphate use and balance on Japanese farmland	Soil Science and Plant Nutrition	52(4)	556-563	2006
Mizoguchi M Abe Y Yamaguchi N Miyazaki T	Cadmium transport in volcanic ash soil during citric acid solution flow	Journal of ASTM International	3(6)	JA113336	2006
Mochizuki A Naka N Hamasaki K Mitsunaga T	Larval cannibalism and intraguild predation between the introduced green lacewing, <i>Chrysoperla carnea</i> , and the indigenous trash-carrying green lacewing, <i>Mallada desjardinsi</i> (Neuroptera: Chrysopidae), as a case study of potential nontarget effect assessment	Environmental Entomology	35(5)	1298-1303	2006
Moriguchi S Amano T Ushiyama K Fujita G Higuchi H	The relationship between abdominal profile index and body condition of Greater White-fronted Geese <i>Anser albifrons</i>	Ornithological Science	5(2)	193-198	2006

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Murai-Hatano M Kuwagata T	Osmotic water permeability of plasma and vacuolar membranes in protoplasts I. High osmotic water permeability in radish (<i>Raphanus sativus</i>) root cells as measured by a new method	Journal of Plant Research	120(2)	175-189	2007
Murakami M Ae N Ishikawa S	Phytoextraction of cadmium by rice (<i>Oryza sativa</i> L.), soybean (<i>Glycine max</i> (L.) Merr.), and maize (<i>Zea mays</i> L.)	Environmental Pollution	145(1)	96-103	2007
Naka H Haruyama N Ito K Mitsunaga T Nomura M Mochizuki A	Interspecific hybridization between introduced and indigenous green lacewings (Neurop., Chrysopidae: <i>Chrysoperla</i>) at different adult densities	Journal of Applied Entomology	130(8)	426-428	2006
Nakanishi Y Adandonon A Okabe I Hoshino Y T Matsumoto N	An oligonucleotide probe for the detection of <i>Erwinia herbicola</i> and <i>Erwinia ananas</i>	Journal of General Plant Pathology	72(5)	328-333	2006
Nishikawa K Machida H Yamakoshi Y Ohtomo R Saito K Saito M Tominaga N	Polyphosphate metabolism in an acidophilic alga <i>Chlamydomonas acidophila</i> KT-1 (Chlorophyta) under phosphate stress	Plant Science	170(2)	307-313	2006
Nishimori M Wei Y F Kobara Y	Simulation of the effects of salting-out in the meridional transportation of pesticides and POPs by a new fugacity-based multimedia environmental fate model	Organohalogen Compounds	68	1151-1154	2006
Noguchi M T Yasuda N Fujita Y	Evidence of genetic exchange by parasexual recombination and genetic analysis of pathogenicity and mating type of parasexual recombinants in rice blast fungus, <i>Magnaporthe oryzae</i>	Phytopathology	96(7)	746-750	2006
Okada H Harada H	Effects of tillage and fertilizer on nematode communities in a Japanese soybean field	Applied Soil Ecology	35(3)	582-598	2007
Osaki H Nakamura H Sasaki A Matsumoto N Yoshida K	An endornavirus from a hypovirulent strain of the violet root rot fungus, <i>Helicobasidium mompa</i>	Virus Research	118(1-2)	143-149	2006
Otani T Seike N	Comparative effects of rootstock and scion on dieldrin and endrin uptake by grafted cucumber (<i>Cucumis sativus</i>)	Journal of Pesticide Science	31(3)	316-321	2006
Otani T Seike N Miwa T	Levels of dioxins in rice, wheat, soybean, and adzuki bean cultivated in 1999 to 2002 in Japan and estimated of their intake	Journal of the Food Hygienics Society of Japan (SHOKUHIN EISEIGAKU ZASSHI)	47(4)	182-188	2006
Otani T Seike N Sakata Y	Differential uptake of dieldrin and endrin from soil by several plant families and <i>Cucurbita</i> genera	Soil Science and Plant Nutrition	53(1)	86-94	2007
Ouchi K Wang H Ishitsuka N Saito G Mohri K	On the Bragg scattering observed in L-band synthetic aperture radar images of flooded rice fields	IEICE Transactions on Communications	E89-B(8)	2218-2225	2006
Parvez M M Parvez S S Gemma H Fujii Y	Monitoring allelopathic expression and functional performance of Tamarind (<i>Tamarindus indica</i> L.)	Allelopathy, New Concepts and Methodology [Fujii Y and Hiradate S eds.]		297-315	2007
Saito K Kuga-Uetake Y Saito M Peterson R L	Vacuolar localization of phosphorus in hyphae of <i>Phialocephala fortinii</i> , a dark septate fungal root endophyte	Canadian Journal of Microbiology	52(7)	643-650	2006
Sakai H Hasegawa T Kobayashi K	Enhancement of rice canopy carbon gain by elevated CO ₂ is sensitive to growth stage and leaf nitrogen concentration	New Phytologist	170(2)	321-332	2006

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Shibayama M	Radiometric estimation of canopy leaf inclination angles of various crop species using multi-band polarization and reflectance	Plant Production Science	9(2)	156-160	2006
Shibayama M Watanabe Y	Remote assessment for wheat canopies under various cultivation conditions using polarized reflectance	Plant Production Science	9(3)	312-322	2006
Shimono H Okada M Yamakawa Y Nakamura H Kobayashi K Hasegawa T	Lodging in rice can be alleviated by atmospheric CO ₂ enrichment	Agriculture, Ecosystems & Environment	118(1-4)	223-230	2007
Shiojiri K Ozawa R Matsui K Kishimoto K Kugimiya S Takabayashi J	Role of the lipoxygenase/lyase pathway of host-food plants in the host searching behavior of two parasitoid species, <i>Cotesia glomerata</i> and <i>Cotesia plutellae</i>	Journal of Chemical Ecology	32(5)	969-979	2006
Shiojiri K Kishimoto K Ozawa R Kugimiya S Urashimo S Arimura G Horiuchi J Nishioka T Matsui K Takabayashi J	Changing green leaf volatile biosynthesis in plants: An approach for improving plant resistance against both herbivores and pathogens	Proceedings of National Academy of Sciences of the United States of America	103(45)	16672-16676	2006
Shirai Y	Flight activity, reproduction, and adult nutrition of the beet webworm, <i>Spoladea recurvalis</i> (Lepidoptera: Pyralidae)	Applied Entomology and Zoology	41(3)	405-414	2006
Shirai Y	Laboratory evaluation of effects of transgenic Bt corn pollen on two non-target herbivorous beetles, <i>Epilachna vigintioctopunctata</i> (Coccinellida) and <i>Galerucella vittaticollis</i> (Chrysomelidae)	Applied Entomology and Zoology	41(4)	607-611	2006
Someya N Tsuchiya K Yoshida T Noguchi M T Sawada H	Combined use of the biocontrol bacterium <i>Pseudomonas fluorescens</i> strain LRB3W1 with reduced fungicide application for the control tomato Fusarium wilt	Biocontrol Science	11(2)	75-80	2006
Someya N Tsuchiya K Yoshida T Noguchi M T Sawada H	Combined application of <i>Pseudomonas fluorescens</i> strain LRB3W1 with a low dosage of benomyl for control of cabbage yellows caused by <i>Fusarium oxysporum</i> f. sp. <i>conglutinans</i>	Biocontrol Science and Technology	17(1)	21-31	2007
Song W Ogawa N Oguchi C T Hatta T Matsukura Y	Effect of <i>Bacillus subtilis</i> on granite weathering: A laboratory experiment	CATENA	70(3)	275-281	2007
Sprague D Iwasaki N	Coexistence and exclusion between humans and monkeys in Japan: Is either really possible?	Ecological and Environmental Anthropology	2(2)	30-43	2006
Sprague D Iwasaki N Takahashi S	Measuring rice paddy persistence spanning a century with Japan's oldest topographic maps: Georeferencing the Rapid Survey Maps for GIS analysis	International Journal of Geographic Information Science	21(1)	83-95	2007
Suh S Chun Y Chae N Kim J Lim J Yokozawa M Lee M Lee J	A chamber system with automatic opening and closing for continuously measuring soil respiration based on an open-flow dynamic method	Ecological Research	21(3)	405-414	2006
Tabata J Noguchi H Kainoh Y Mochizuki F Sugie H	Sex pheromone production and perception in the mating disruption-resistant strain of the smaller tea leafroller moth, <i>Adoxophyes honmai</i>	Entomologia Experimentalis et Applicata	122(2)	145-153	2006

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Tabata J Hoshizaki S Tatsuki S Ishikawa Y	Heritable pheromone blend variation in a local population of the butterbur borer moth <i>Ostrinia zaguliavi</i> (Lepidoptera: Crambidae)	Chemoecology	16(2)	123-128	2006
Takada-Hoshino Y Matsumoto N	DNA- versus RNA-based denaturing gradient gel electrophoresis profiles of a bacterial community during replenishment after soil fumigation	Soil Biology and Biochemistry	39(2)	434-444	2007
Takada-Hoshino Y Matsumoto N	Changes in fungal community structure in bulk soil and spinach rhizosphere soil after chemical fumigation as revealed by 18S rDNA PCR-DGGE	Soil Science and Plant Nutrition	53(1)	40-55	2007
Takagi K Harazono Y Noguchi S Miyata A Mano M Komine M	Evaluation of transpiration rate of lotus using the stem heat-balance method	Aquatic Botany	85(2)	129-136	2006
Tang X Yang H Du M Zhao Q Li R	Identification of ¹³⁷ Cs reference sites in southeastern China	Pedosphere	16(4)	468-476	2006
Tao F Yokozawa M Xu Y Hayashi Y Zhang Z	Climate changes and trends in phenology and yields of field crops in China, 1981-2000	Agricultural and Forest Meteorology	138(1-4)	82-92	2006
Tsushima S Shinohara H Nakazato T Ando S Sugisawa T Tabei Y	Phylogenetic analysis of <i>Xanthomonas albilineans</i> strains from Okinawa, Japan, through a comparison of the <i>gyrB</i> and <i>rpoD</i> genes in geographically distinct strains	Journal of Phytopathology	154(11-12)	683-687	2006
Uegaki R Seike N Otani T	Polychlorinated dibenzo- <i>p</i> -dioxins, dibenzofurans, and dioxin-like polychlorinated biphenyls (dioxins) in rice plants: Possible contaminated pathways	Chemosphere	65(9)	1537-1543	2006
Ueyama M Harazono Y Ohtaki E Miyata A	Controlling factors on the interannual CO ₂ budget at a subarctic black spruce forest in interior Alaska	Tellus B	58(5)	491-501	2006
Uno H Kaji K Saitoh T Matsuda H Hirakawa H Yamamura K Tamada K	Evaluation of relative density indices for sika deer in eastern Hokkaido, Japan	Ecological Research	21(5)	624-632	2006
Vu H S Ishihara S Watanabe H	Exposure risk assessment and evaluation of the best management practice for controlling pesticide runoff from paddy fields. Part I. Paddy watershed monitoring	Pest Management Science	62(12)	1193-1206	2006
Wada T Urano S Yamamura K	A labor-saving sampling method for estimating a normally distributed population by using a local median	Applied Entomology and Zoology	42(1)	9-14	2007
Walker C Vestberg M Demircik F Stockinger H Saito M Sawaki H Nishimura I Schüßler A	Molecular phylogeny and new taxa in the <i>Archaeosporales</i> (Glomeromycota): <i>Ambispora fennica</i> gen. sp. nov., <i>Ambisporaceae</i> fam. nov., and emendation of <i>Archaeospora</i> and <i>Archaeosporaceae</i>	Mycological Research	111(2)	137-153	2007
Watanabe E Baba K Eun H Miyake S	Application of a commercial immunoassay to the direct determination of insecticide imidacloprid in fruit juices	Food Chemistry	102(3)	745-750	2007
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Appendix

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Watanabe E Miyake S Baba K Eun H Endo S	Immunoassay for acetamiprid detection: Application to residue analysis and comparison with liquid chromatography	Analytical and Bioanalytical Chemistry	386(5)	1441-1448	2006
Watanabe E Miyake S Ito S Baba K Eun H Ishizaka M Endo S	Reliable enzyme immunoassay detection for chlorothalonil: Fundamental evaluation for residue analysis and validation with gas chromatography	Journal of Chromatography A	1129(2)	273-282	2006
Watanabe H Nguyen H M Komany S Vu H S Thai K P Ishihara S	Effect of water management practice on pesticide behavior in paddy water	Agricultural Water Management	88(1-3)	132-140	2007
Wei Y-F Nishimori M Kobara Y Akiyama T	Strategies for including the paddy field compartment in multimedia models	Organohalogen Compounds	68	1155-1158	2006
Yamada K Yasunaga T Nakatani Y Hirowatari T	The minute pirate-bug genus <i>Xylocoris</i> Dufour (Hemiptera: Heteroptera: Anthrenoridae) from rice mills in Thailand	Proceedings of the Entomological Society of Washington	108(3)	525-533	2006
Yamaguchi N Seki K Komamura M Kurishima K	Long-term mobility of fallout ⁹⁰ Sr in ploughed soil, and ⁹⁰ Sr uptake by wheat grain	Science of the Total Environment	372(2-3)	595-604	2007
Yamamura K Moriya S Tanaka K Shimizu T	Estimation of the potential speed of range expansion of an introduced species: characteristics and applicability of the gamma model	Population Ecology	49(1)	51-62	2007
Yamanaka T	Mating disruption or mass trapping? Numerical simulation analysis of a control strategy for lepidopteran pests	Population Ecology	49(1)	75-86	2007
Yamanaka T Tanaka K Otuka A Bjornstad O N	Detecting spatial interactions in the ragweed (<i>Ambrosia artemisiifolia</i> L.) and the ragweed beetle (<i>Ophraella communa</i> LeSage) populations	Ecological Research	22(2)	185-196	2007
Yasuda N Noguchi M T Fujita Y	Partial mapping of avirulence genes <i>AVR-Pii</i> and <i>AVR-Pia</i> in the rice blast fungus <i>Magnaporthe oryzae</i>	Canadian Journal of Plant Pathology	28(3)	494-498	2006
Yasuda T Mizutani N Endo N Fukuda T Matsuyama T Ito K Moriya S Sasaki R	A new component of attractive aggregation pheromone in the bean bug, <i>Riptortus clavatus</i> (Thunberg) (Heteroptera: Alydidae)	Applied Entomology and Zoology	42(1)	1-7	2007
Yonemura S Kawashima S	Concentrations of carbon gases and oxygen and their emission ratios from the combustion of rice hulls in a wind tunnel	Atmospheric Environment	41(7)	1407-1416	2007
Yoshida S Kinkel L L Shinohara H Numajiri N Hiradate S Koitaabashi M Suyama K Negishi H Tsushima S	Production of quorum-sensing-related signal molecules by epiphytic bacteria inhabiting wheat heads	Canadian Journal of Microbiology	52(5)	411-418	2006
Yoshida S Tsukiboshi T Arie T Shinohara H Koitaabashi M Tsushima S	Inhabitancy and colonization on healthy rice plants by <i>Glomerella cingulata</i>	Journal of Phytopathology	155(1)	38-44	2007

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Yoshimatsu S Nakata Y	Fungivory of <i>Anatatha lignea</i> , an interesting habit in Noctuidae (Lepidoptera)	Entomological Science	9(3)	319-325	2006
Yoshimura Y Beckie H J Matsuo K	Transgenic oilseed rape along transportation routes and port of Vancouver in western Canada	Environmental Biosafety Research	5(2)	67-75	2007
Yun M-S Chen W-J Deng F Kiyokawa T Mametsuka K Yogo Y	An <i>in vitro</i> screening assay to discover novel inhibitors of 4-coumarate: CoA ligase	Pest Management Science	62(11)	1065-1071	2006

4. Collaborative Research

Collaborative Organization	Number
Private Enterprise	16
University	3
Other Independent Administrative Institution	2
Prefectural Research Institution	3
Total	24

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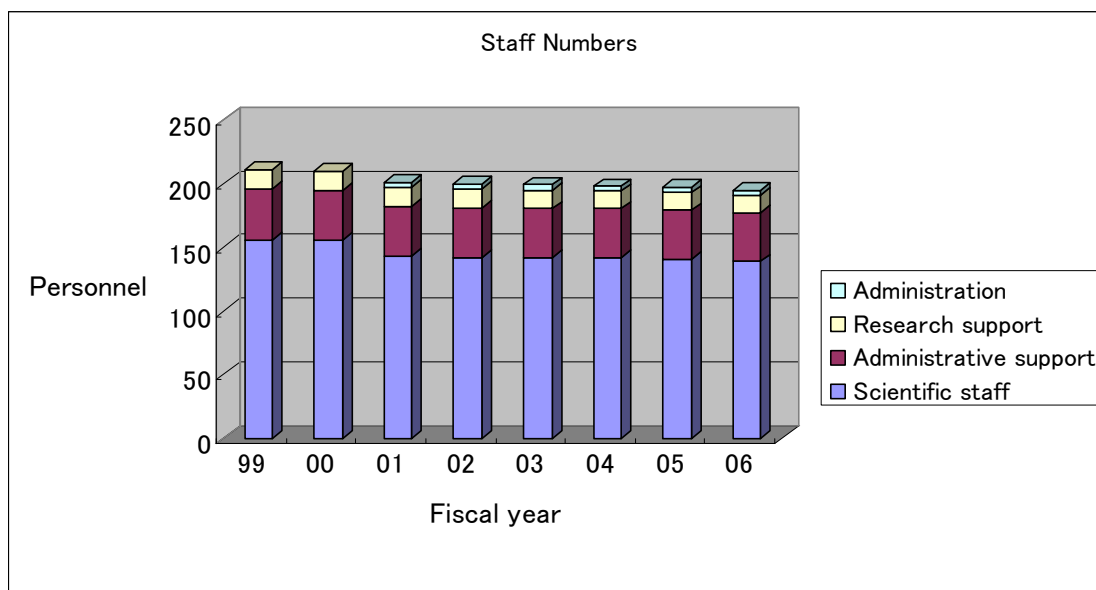
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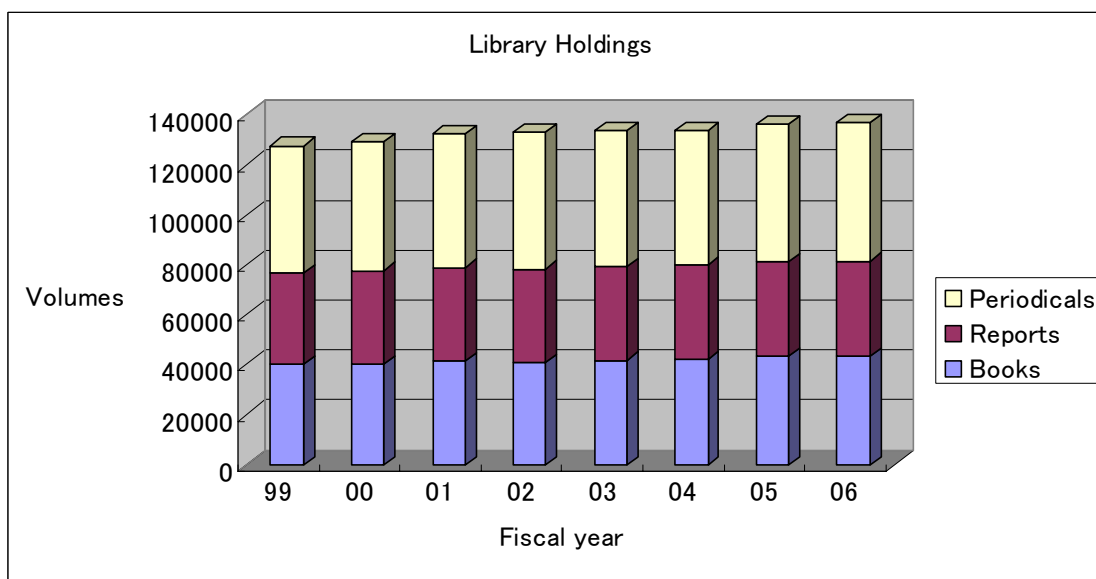
Budget in the FY 2006 (Million yen)

Operational Budget	3,280
Facilities Maintenance Subsidy	101
Project Research Budget	1,060
Miscellaneous Income	2
Incidental Income	11
Total	4,454

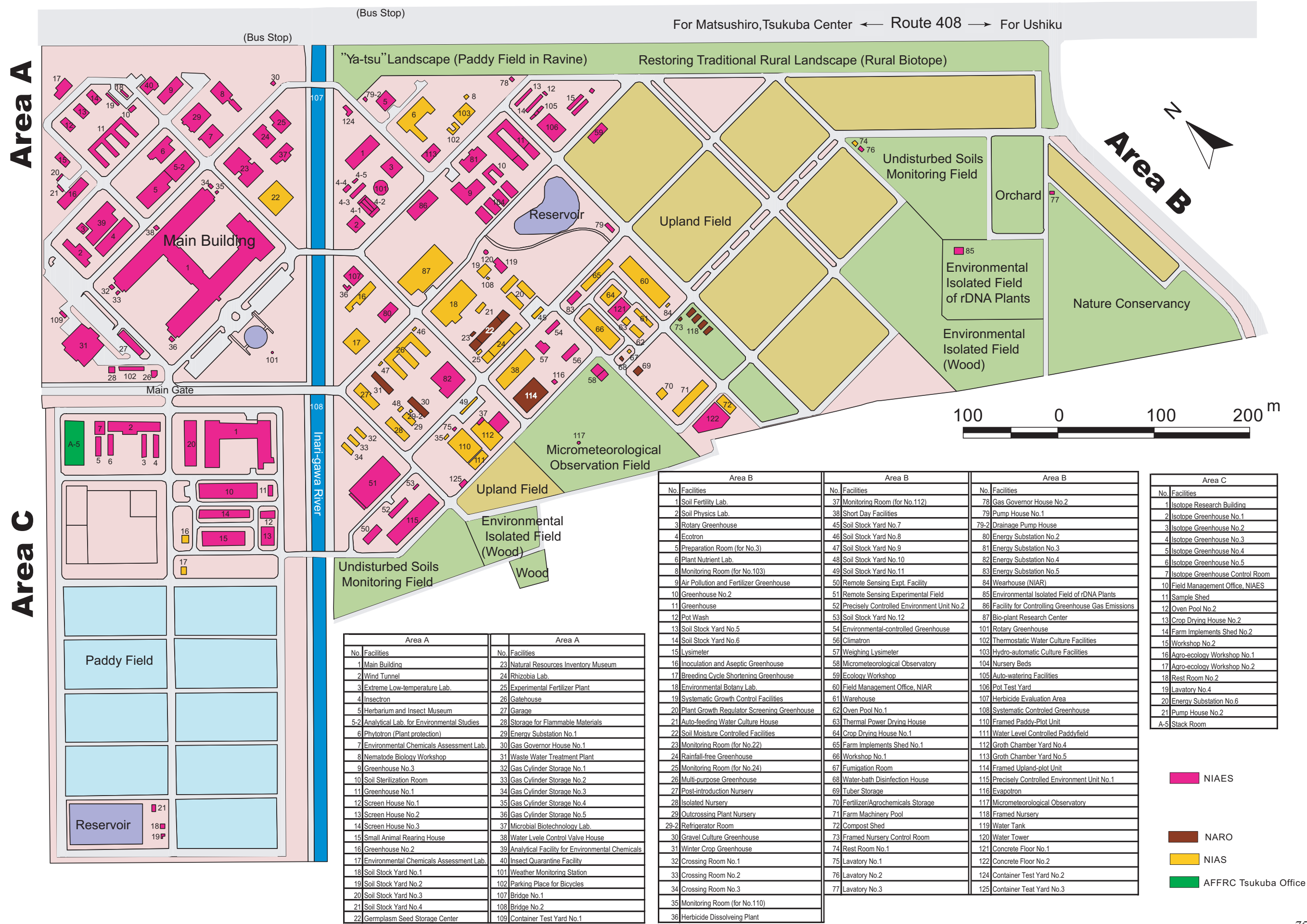
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