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Kata Pengantar

Indeks Biologi dan Pertanian Indonesia ini terbit tiga nomor setahun, berisi judul-judul karangan mengenai biologi dan pertanian di Indonesia yang dimuat dalam berbagai penerbitan dalam maupun luar negeri.

Indeks ini disusun menurut skema pembagian subyek dari AGRIS (The International Information System for Agricultural Sciences and Technology) dan masing-masing entri dilengkapi dengan kata kunci yang menggambarkan isi karangan. Kata kunci ini diambil dari AGROVOC edisi ke-4 tahun 1999, dan dipakai pula untuk indeks subyeknya.

Untuk menelusuri suatu karangan yang diinginkan, pengguna dapat mencarinya dari indeks pengarang dan indeks subyek. Daftar majalah dari karangan-karangan yang dimuat dalam indeks ini juga disertakan.

Semua karangan yang ada di dalam indeks ini ada di Pusat Perpustakaan dan Penyebaran Teknologi Pertanian, dan pengguna yang memerlukan karangan aslinya dapat menghubungi alamat dari Pusat tersebut.

Bogor, 2002

Kepala Pusat Perpustakaan dan
Penyebaran Teknologi Pertanian

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COCOA INDUSTRY; RESEARCH SUPPORT;
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0302 BAIHAKI, A. [Direction and challenge of research against global competition]. Arah dan tantangan penelitian dalam menghadapi persaingan global/Baihaki, A. (Universitas Padjadjaran, Bandung (Indonesia) Fakultas Pertanian). *Bionatura: Jurnal Ilmu-ilmu Hayati dan Fisik Padjadjaran* (Indonesia) ISSN 1411-0903 (2000) v. 1(2) p. 79-83 6 ref.

RESEARCH POLICIES; EDUCATIONAL
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0303 MANGKUPRAWIRA, S. [Research and development for perpetual agribusiness era]. Penelitian dan pengembangan untuk membangun agribisnis berkelanjutan di era baru: Era baru: Era agribisnis berkelanjutan/Mangkuprawira, S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). *Agrimedia* (Indonesia) ISSN 0853-8468 (2000) v. 6(1) p. 20-25 1 ill., 6 ref.

AGROINDUSTRIAL SECTOR; RESEARCH;
RESEARCH INSTITUTIONS.

0304 SA'ID, E.G. [Biotechnology era and research and development resources]. Era biologi/Sa'id, E.G. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). *Agrimedia* (Indonesia) ISSN 0853-8468 (2000) v. 6(1) p. 16-19 ill., tables; ref.

BIOTECHNOLOGY; HUMAN RESOURCES;
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0305 SURADISAstra, K. [Summary and institutional research aim and agriculture

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INDONESIA; ORGANIZATION OF
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C10 EDUCATION / PENDIDIKAN

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EDUCATION; AGRICULTURE; SKILLED
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0307 DAMANHURI, D.S. [Development of agribusiness human resources strategy after economic crises]. Strategi pengembangan sumberdaya manusia agribisnis pasca krisis/DamANHURI, D.S. (Institut Pertanian Bogor (Indonesia)). *Info Agribisnis* (Indonesia) ISSN 1410-0436 (1999) v. 2(5) p. 14-18 3 ill.

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Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 590-603

INDONESIA; AGRICULTURE; EXTENSION ACTIVITIES; INSTITUTIONS.

C30 DOCUMENTATION AND INFORMATION / DOKUMENTASI DAN INFORMASI

0309 KARMINI, G. [Development of databases for the Land Resources Evaluation Planning Project (LREP-P)]. Pembangunan dan perkembangan basisdata tanah di Land Resources Evaluation and Planning Project (LREP-P)/Karmini, G.; Subardja, D.; Saefoel, B.; Priyono, A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 45-61. *Basisdata* (Indonesia) (no. 1) 10 ill., 8 ref. Appendices

LAND RESOURCES; EVALUATION; FARM PLANNING; DEVELOPMENT PROJECTS; DATABASES.

0310 PRASETYO, B.H. [Databases for mineralogy laboratory of the center for soil and agroclimate research]. Basisdata di Instalasi Laboratorium Mineralogi/Prasetyo, B.H.; Saefoel, B.; Hidayat, H. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 81-85. *Basisdata* (Indonesia) (no. 1) 2 ill.

MINERALOGY; CARTOGRAPHY; DEVELOPMENT PROJECTS; DATABASES.

0311 REJEKININGRUM, P. [Management and development of climatic data bases for the

agroclimate and Hydrology Researches Group]. Pengelolaan dan pengembangan basisdata iklim kelompok peneliti agroklimat dan hidrologi/Rejekiningrum, P.; Amien, I.; Las, I. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 31-44. *Basisdata* (Indonesia) (no. 1) 1 tables; 8 ref. Appendices

CLIMATOLOGY; HYDROLOGY; SOIL RESOURCES; DATABASES.

0312 SANTOSO, D. [Management of databases for land resources in the center for soil and Agroclimate Research]. Pengelolaan basisdata sumber daya lahan pusat penelitian tanah dan agroklimat/Santoso, D.; Nugroho, K.; Saefoel, B. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 111-119. *Basisdata* (Indonesia) (no. 1) 4 ill.

LAND RESOURCES; DATABASES; CLIMATOLOGY; INFORMATION SYSTEMS.

0313 SETYORINI, D. [Data bases management system for the soil chemical and soil biology research group]. Sistem pengelolaan basisdata Kelompok Peneliti Kimia dan Biologi Tanah/Setyorini, D.; Adiningsih, J.S. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 19-24. *Basisdata* (Indonesia) (no. 1) 1 ill., 3 ref.

SOIL BIOLOGY; SOIL FERTILITY; SOIL CHEMISTRY; LABORATORIES; CARTOGRAPHY; DATABASES.

0314 SUHARTA, N. [Status and development of land resources database by the Pedology Researcher Group]. Status dan rencana pengembangan basis data tanah Kelompok Peneliti Pedologi/Suharta, N.; Subagyo, H.; Subardja, D.; Karmini, G. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 1-18. *Basisdata* (Indonesia) (no. 1) 9 ref. Appendices

SOIL RESOURCES; CARTOGRAPHY; SOIL MORPHOLOGICAL FEATURES; SOIL SCIENCES; DATABASES.

0315 SULAEMAN. [Management of databases for chemical laboratory of the center for soil and agroclimate research]. Pengelolaan basisdata di Instalasi Laboratorium Kimia/Sulaeman (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 63-79. *Basisdata* (Indonesia) (no. 1) 3 ill., 2 tables; Appendices

MANPOWER; MANAGEMENT; DEVELOPMENT POLICIES; DATABASES.

0316 VADARI, T. [Databases for the soil physics, and soil and water conservation researcher group]. Basis data kelompok peneliti fisika dan konservasi tanah dan air/Vadari, T.; Kurnia, U. (Pusat Penelitian Tanah dan

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SOIL CONSERVATION; WATER CONSERVATION; GEOGRAPHY; TECHNOLOGY TRANSFER; DATABASES.

0317 WAHYUNTO. [Databases and activities held in the remote sensing instalation of the CSAR]. Basisdata dan kegiatan instalasi penginderaan jauh/Wahyunto; Suryanto, W.J. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 91-98. *Basisdata* (Indonesia) (no. 1) 9 ref.

REMOTE SENSING; DATABASES; EQUIPMENT.

0318 YUSRIAL. [Management of data in the Physics Laboratory of the Center for Soil and Agroclimate Research]. Pengelolaan data di Instalasi Laboratorium Fisika/Yusrial; Kurnia, U. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Workshop on Land Resources Data Bases, Bogor 16-17 March 1999]. Prosiding Lokakarya Basisdata Sumber Daya Lahan, Bogor 16-17 Maret 1999/Santoso, D.; Bachri, S.; Vadari, T. (eds.). Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). Bogor (Indonesia): PUSLITTANAK, 1999 p. 87-90. *Basisdata* (Indonesia) (no. 1) 1 tables

SOIL CHEMICOPHYSICAL PROPERTIES; LABORATORIES; SOIL MANAGEMENT; DATABASES.

D50 LEGISLATION / HUKUM DAN PERATURAN PERUNDANG-UNDANGAN

0319 SULISTYOWATI. [The quality control of coffee and cacao based on the national standardization system]. Pengendalian mutu kopi dan kakao berdasarkan sistem standarisasi nasional/Sulistiyowati; Wahyudi, T. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1999) v. 15(2) p. 203-220 2 tables; 6 ref.

COFFEE BEANS; COCOA BEANS; QUALITY CONTROLS; STANDARDIZING; QUALITY ASSURANCE; INDONESIA.

E10 AGRICULTURAL ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN NASIONAL MENGENAI PERTANIAN

0320 AGRIBISNIS PETERNAKAN. [Meats self sufficiency in 2005, is it possible?]. Swasembada daging 2005: mungkinkah?/ *Agribisnis Peternakan*, Jakarta (Indonesia). *Agribisnis Peternakan* (Indonesia) (1999) v. 3 p. 7-11

MEAT; SELF SUFFICIENCY; PRODUCTION INCREASE.

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BANANAS; RESEARCH INSTITUTIONS; JAVA.

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E16 PRODUCTION ECONOMICS / EKONOMI PRODUKSI

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E20 ORGANIZATION, ADMINISTRATION, AND MANAGEMENT OF AGRICULTURAL ENTERPRISES AND FARMS / ORGANISASI, ADMINISTRASI DAN PENGELOLAAN PERUSAHAAN PERTANIAN / USAHA TANI

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COCOA BEANS; PROCESSING;
EQUIPMENT; ECONOMIC ANALYSIS.

E50 RURAL SOCIOLOGY AND SOCIAL SECURITY / SOSIOLOGI PEDESAAN DAN KEAMANAN SERTA KESEJAHTERAAN

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SULAWESI; FISHERMEN; SOCIAL CHANGE; FISHERY DATA; INLAND FISHERIES.

E51 RURAL POPULATION / PENDUDUK DI DAERAH PEDESAAN

0404 RUSA STRA, I W. [Rural economic dynamics in national development perspective]. *Dinamika ekonomi pedesaan perspektif pembangunan nasional/Rusastra, I W.; Sudaryanto, T.* [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 2]. *Dinamika inovasi sosial ekonomi dan kelembagaan pertanian*; Buku 2/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 671-699 22 tables

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E70 TRADE, MARKETING AND DISTRIBUTION / PERDAGANGAN, PEMASARAN DAN DISTRIBUSI

0405 DANUSASTRO, L.S. [Market information of agribusiness]. Informasi pasar agribisnis/Danusastro, L.S. (Departemen Perindustrian dan Perdagangan, Jakarta (Indonesia)). *Agri media* (Indonesia) ISSN 0853-8468 (1999) v. 5(3) p. 4-10 5 tables

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0409 MUZAKIR, H.A.K. [Opportunity of developing cooperative in tobacco cultivation]. Peluang pengembangan koperasi dalam perusahaan tembakau/Muzakir, H.A.K. (Koperasi Tarutama Nusantara, Jember (Indonesia)). [Proceeding of the Seminar and Workshop on Tobacco Technology]. Prosiding Semiloka Teknologi Tembakau/Tirtosastro, S.; Rachman, A.; Isdijoso, S.H.; Gothama, A.A.A.; Dalmadiyo, G.; Mukani (eds.). Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 45-52 1 ill., 4 ref.

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0411 PURWADI. [Integrated analysis of consumer markets of onion in Jakarta, Bandung, Semarang, Surabaya, Medan, and Ujung Pandang]. Analisis integrasi pasar konsumen bawang merah di Jakarta, Bandung, Semarang, Surabaya, Medan, dan Ujung Pandang/Purwadi (Institut Pertanian Stiper, Yogyakarta (Indonesia). Fakultas Pertanian). *Buletin Ilmiah Instiper* (Indonesia) ISSN 0852-8772 (1999) v. 6(1) p. 83-94 11 tables; 9 ref.

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0414 SUDARYANTO, T. Assessment of the regulated market for citrus fruit in West

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0418 SUPRAPTO, A. [Role of market information on Agribusiness development in Indonesia]. Peranan informasi pasar dalam pengembangan agribisnis di Indonesia/Suprpto, A. (Badan Agribisnis, Jakarta (Indonesia)). *Agrimedia* (Indonesia) ISSN 0853-8468 (1999) v. 5(3) p. 12-15 Appendices

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E71 INTERNATIONAL TRADE / PERDAGANGAN INTERNASIONAL

0419 AMILUDDIN. [Econometric analysis performance of Indonesian plywood market and possibility impact to validated market liberalization]. Analisis ekonometrika, keragaan pasar kayu lapis Indonesia dan dampak kemungkinan diberlakukannya liberalisasi perdagangan/Amiluddin (Institut Pertanian Bogor (Indonesia)); Gonarsyah, I. *Agrimedia* (Indonesia) ISSN 0853-8468 (1999) v. 5(3) p. 48-64 4 tables. 16 ref.

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E72 DOMESTIC TRADE / PER-DAGANGAN DALAM NEGERI

0427 ERWIDODO. Indonesia's agriculture: facing the APEC and WTO/Erwidodo; Feridhanusetyawan, T. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 1/ Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 414-429 9 tables

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F01 CROP HUSBANDRY / PERTANAMAN

0428 AMRIL, B. [Grain yield and profit of lowland rice in direct seeded and transplanting system at Pariaman, West Sumatra (Indonesia)]. Kajian hasil dan keuntungan sistem tabela dan tapin padi sawah di Pariaman/Amril, B.; Abdullah, S. (Balai Pengkajian Teknologi Pertanian, Sukarami (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 277-280 2 tables; 5 ref. Summary (En)

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0430 ASTUTI, I.P. [Sago (*Metroxylon sagu* Rottboell)]. Sagu/Astuti, I.P. *Prosea* (Indonesia) ISSN 0854-2112 (1999) v. 2(7) p. 41-43 2 ill., 1 ref.

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0431 BUDHI, G.S. [Analysis of supporting and banding factors of introduction of superior fruit plants through technology and business approaches as an alternative on rehabilitation efforts of critical land]. Analisis faktor pendukung dan penghambat introduksi tanaman buah-buahan unggul melalui pendekatan teknologi dan bisnis sebagai salah satu alternatif pendekatan teknologi dan bisnis dalam usaha rehabilitasi lahan kritis/Budhi, G.S. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)); Aminah, M.; Prasetyo, B. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 221-225 2 tables; 4 ref. Summary (In)

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0432 DJAKAMIHARDJA, S. [Rice cultivation on different ecological bases and their constraints]. Budidaya tanaman padi di berbagai basis ekologi dan kendala-kendalanya/Djakamihardja, S. (Universitas Padjadjaran, Bandung (Indonesia). Fakultas Pertanian). *Jurnal Penelitian Lembaga Penelitian Universitas Siliwangi* (Indonesia) ISSN 0854-4611 (Ags 1997) v. 5(15) p. 1-12

ORYZA SATIVA; CULTIVATION; EDAPHIC FACTORS; ECOLOGY; PEAT SOILS; SWAMP SOILS; SOIL CHEMICOPHYSICAL PROPERTIES.

0433 HANDAYANI, T. [*Borassus flabellifer*]. Lontar/Handayani, T. *Prosea* (Indonesia) ISSN 0854-2112 (1999) v. 2(7) p. 39-40 1 ill., 1 ref.

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0434 HASANUDDIN. Soybean [*Glycine max* (L.) Merrill] growth analysis on different variety, spacing, and fertilizer application. Analisis pertumbuhan tanaman kedelai [*Glycine max* (L.) Merrill] pada berbagai varietas, jarak tanam, dan pemupukan/Hasanuddin; Darusman; Syamsuddin (Universitas Syiah Kuala, Darussalam, Banda Aceh (Indonesia)). *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 43-51 3 ill., 2 tables; 22 ref. Summary (En)

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0436 JUANDA J.S., D. [Potential and prospect of bananas plants development on conservation farming system in dry land]. Potensi dan prospek pengembangan tanaman pisang dalam sistem usahatani konservasi di lahan kering/Juanda J.S., D.; Norma S., M. (Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 227-234 6 tables; 13 ref. Summary (In)

MUSA (BANANAS); CONSERVATION TILLAGE; CROP MANAGEMENT; GROWTH; PLANT PRODUCTION; FUSARIUM OXYSPORUM; ECONOMIC ANALYSIS; DRY FARMING.

0437 KARIADA, K. [Horticultural agribusiness of superior quality tropical fruits]. Agribisnis hortikultura buah-buahan unggulan tropis/Kariada, K. *Info Agribisnis* (Indonesia) ISSN 0853-1510 (1995) v. 2(2) p. 1-9 4 tables

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0438 LAMID, Z. [Evaluation of no-tillage direct seeding technology on irrigated lowland rice]. Pengkajian teknologi tanpa olah tanah tanam benih langsung (Totabela) pada padi sawah irigasi/Lamid, Z.; Adlis, G. (Balai Pengkajian Teknologi Pertanian, Sukarami (Indonesia)); Azwir; Ardi. [Proceedings of the seminar on increasing national rice production through tabela (direct sowing) system of lowland rice and utilization of unproductive land]. Prosiding seminar peningkatan produksi padi nasional melalui sistem tabela padi sawah

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COCOS NUCIFERA; GROWTH DISORDERS; SOIL CHEMICOPHYSICAL PROPERTIES; PLANT REQUIREMENTS.

0440 NUGRAHA, U.S. [Nurseries system in supporting rice intensification pattern 300]. Sistem perbenihan dalam mendukung pola IP padi 300/Nugraha, U.S.; Kartaatmadja, S. [The Prospect of Rice Intensification Pattern 300 to Anticipate Climate Change and Food Crisis]. Seminar Nasional Prospek Pola IP Padi 300 Mengantisipasi Perubahan Iklim dan Krisis Pangan/Jakarta (Indonesia): Badan Litbang Pertanian, 1999 (pt. 2) 6 p. 1 table

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COFFEA; AGRICULTURAL DEVELOPMENT; CULTIVATION; CROP MANAGEMENT; SWAMP SOILS; SUMATRA.

0442 PUJANTO. [Technology selection in optimizing the management of coffee plantation in Indonesia]. Pemilihan teknologi dalam rangka optimasi pengelolaan perkebunan kopi/Pujianto; Wardani, S.; Winaryo; Rahardjo, P.; Ismayadi, C. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 16-22 4 ill., 4 ref.

COFFEA; PLANTATIONS; APPROPRIATE TECHNOLOGY; CROP MANAGEMENT; FARM INPUTS; BALANCES.

0443 RAHARDJO, P. [The growth of recommended Arabica Coffee seedling in lowland]. Pertumbuhan bibit Kopi Arabika anjuran di dataran rendah/Rahardjo, P. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1999) v. 15(2) p. 240-243 3 ref.

COFFEA ARABICA; SEED; SEEDLINGS; GROWTH; LOWLAND.

0444 RAHAYU, L.R. [Study of salak based farming in Karangasem district Bali Province (Indonesia)]. Pengkajian sistem usaha tani berbasis salak di Kabupaten Karangasem Propinsi Bali (Indonesia)/Rahayu, L.R.; Arya, N.N. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Denpasar (Indonesia)). [Research Result Report of Animal Husbandry and Food Crops]. Risalah Hasil Penelitian Peternakan dan Tanaman Pangan/Instalasi Penelitian dan Pengkajian Teknologi Pertanian,

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SALACCA; FARMING SYSTEMS; PLANT PROPAGATION; ECONOMIC ANALYSIS; BALI.

0445 RIDWAN. [Direct seeding rice planting system before and after fish culture]. Sistem tanam benih langsung padi sawah sebelum dan sesudah budidaya ikan/Ridwan, Amril, B.; Abdullah, S. (Balai Pengkajian Teknologi Pertanian, Sukarami (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 237-241 3 tables; 9 ref. Summary (En)

FLOODED RICE; DIRECT SOWING; TRANSPLANTING; AGROPISCICULTURE; CROP MANAGEMENT; FISH CULTURE; GROWTH; YIELD COMPONENTS; COST ANALYSIS.

0446 SOBADI. [Pruning method of *Leucaena* cultivar PG 79 resistance to *Heteropsylla cubana*]. Tata cara pemangkasan lamtoro tanah kutu loncat kultivar PG 79/Sobadi; Suhartono (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 86-89 1 ill., 6 ref.

LEUCAENA; VARIETIES; HETEROPSYLLA CUBANA; PRUNING; EQUIPMENT.

0447 SOEKARDI, M. [Relation between soil characteristics and growing of maize in Umbulrejo, Gunungkidul resident (Indonesia)]. Hubungan karakteristik tanah dan pertumbuhan tanaman jagung di Umbulrejo, Gunungkidul/Soekardi, M.; Mulyani, A. (Pusat Penelitian

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ZEA MAYS; AGRONOMIC CHARACTERS; SOIL CHEMICOPHYSICAL PROPERTIES; GROWTH; YIELDS; FERTILIZER APPLICATION.

0448 SOENARDI. [The effort on developing castor plant in Indonesia]. Upaya mendorong pengembangan tanaman jarak di Indonesia/Soenardi; Romli, M. (Balai Penelitian Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN 0853-8204 (1998) v. 4(1-2) p. 1-4 1 ill.

RICINUS COMMUNIS; AGRICULTURAL DEVELOPMENT; POSTHARVEST TECHNOLOGY; CULTIVATION; INDONESIA.

0449 SUBANDI. [Maize: production and postharvest technology]. Jagung: teknologi produksi dan pascapanen/Subandi; Ismail, I.G.; Hermanto Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGTAN, 1998 57 p. 11 ill., 20 tables; Bibl. p. 50-57

ZEA MAYS; MAIZE; PLANT PRODUCTION; CULTIVATION; WATER MANAGEMENT; FERTILIZER APPLICATION; CROPPING SYSTEMS; CROP MANAGEMENT; POSTHARVEST TECHNOLOGY; YIELDS.

0450 SUHARDI. [Primarily effort on growth *Gnetum gnemon* fungi culture and increasing of *Gnetum gnemon* for improving soil fertility naturally with mycorrhizae at Daerah Istimewa Yogyakarta (Indonesia)]. Usaha awal membudidayakan jamur melinjo dan meningkatkan pertumbuhan tanaman melinjo (*Gnetum gnemon*) serta usaha meningkatkan kesuburan tanah secara alam dengan mikoriza di D.I. Yogyakarta/Suhardi (Universitas Gadjah

Mada, Yogyakarta (Indonesia). Fakultas Kehutanan). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 184-189 3 tables; 4 ref. Summary (In)

GNETUM GNEMON; MYCORRHIZAE; INOCULATION; GROWTH; SOIL FERTILITY.

0451 TRIWILAIDA. [Assessment of public forestry land use on Rejosari village, Semin, Gunungkidul resident (Indonesia)]. Kajian pemanfaatan lahan hutan rakyat di Desa Rejosari, Semin, Gunung Kidul/Triwilaida; Subandrio, B. (Balai Teknologi Pengelolaan Daerah Aliran Sungai, Surakarta (Indonesia)); Lestiantoro, Y. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 241-246 2 tables; 3 ref. Summary (In)

AGROFORESTRY; ACACIA AURICULIFORMIS; SPICE CROPS; EROSION CONTROL PLANTS; MULTIPLE CROPPING; CROP MANAGEMENT; YIELDS.

0452 TYAS, K.N. [*Curcuma zedoaria* Christmann Roscoe]. Temu putih/Tyas, K.N. *Prosea* (Indonesia) ISSN 0854-2112 (1999) v. 2(7) p. 43-45 4 ill., 1 ref.

CURCUMA ZEDOARIA; USES; CULTIVATION.

0453 WINARDI. [Developing of direct seeded lowland rice in Kota Baru, Sawahlunto Sijunjung, West Sumatra (Indonesia)]. Pengembangan tabel padi sawah di Kota Baru, Sawahlunto Sijunjung, Sumatera Barat/Winardi; Aguswarman (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Sumatera Barat, Padang (Indonesia)). [Proceedings of the

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FLOODED RICE; DIRECT SOWING; FARMING SYSTEMS; ECONOMIC ANALYSIS; PRODUCTION COSTS; SUMATRA.

F02 PLANT PROPAGATION / PERBANYAKAN TANAMAN

0454 MAFTUCHAH. Callus induction of artemisia (*Artemisia vulgaris* L.) by *in-vitro* culture. Induksi kalus artemisia (*Artemisia vulgaris* L.) melalui kultur *in-vitro*/Maftuchah; Ardiana H.K.; Joko, B.S. (Universitas Muhammadiyah, Malang (Indonesia). Fakultas Pertanian). *Tropika* (Indonesia) ISSN 0854-6533 (1998) v. 6(2) p. 135-141 2 tables; 13 ref. Summaries (En, In)

ARTEMISIA VULGARIS; DRUG PLANTS; LACTONES; CALLUS; PLANT PROPAGATION; IN VITRO CULTURE; PLANT GROWTH SUBSTANCES; CULTURE MEDIA.

0455 RAHARDJO, P. [The development of cacao planting stock in Indonesia]. Perkembangan bahan tanaman kakao di Indonesia/Rahardjo, P. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1999) v. 15(2) p. 184-189 16 ref.

THEOBROMA CACAO; PLANTING STOCK; MOTHER PLANTS; HISTORY; HYBRIDS.

0456 TAHARDI, J.S. Plant regeneration in *Hevea brasiliensis* via somatic embryogenesis.

Regenerasi tanaman *Hevea brasiliensis* melalui embriogenesis somatik/Tahardi, J.S. (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)). *Menara Perkebunan* (Indonesia) ISSN 0215-9318 (1998) v. 66(1) p. 1-8 1 ill., 2 tables; 16 ref. Summaries (En, In)

HEVEA BRASILIENSIS; PLANT PROPAGATION; EMBRYONIC DEVELOPMENT; SOMATIC EMBRYOGENESIS; ANTHOR CULTURE; PLANT GROWTH SUBSTANCES.

0457 WINARSIH, S. [Mycorrhizae high-quality coffee planlet for soil with nutrition problem]. Planlet kopi unggul bermikoriza untuk lahan bermasalah hara/Winarsih, S.; Baon, J.B. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 39-44 15 ref.

COFFEA; SEEDLINGS; HIGH YIELDING VARIETIES; MYCORRHIZAE; INOCULATION; MARGINAL LAND.

0458 WINARSIH, S. [Technical guidance of cacao propagation]. Pedoman teknis sambung-samping kakao/Winarsih, S.; Prawoto, A.A. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 90-96 5 ill.

THEOBROMA CACAO; VARIETIES; GRAFT UNIONS.

0459 WINARSIH, S. [Technical guidance for cacao top working]. Pedoman teknis sambung pucuk kakao/Winarsih, S. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1999) v. 15(2) p. 230-234 4 ref.

THEOBROMA CACAO; TOPWORKING.

0460 YUNIASTUTI, E. [*Panax ginseng* propagation by *in-vitro*]. Perbanyak tanaman ginseng (*Panax ginseng*) secara *in-vitro*/Yuniastuti, E.; Fatkurrohmani; Sukaya (Universitas Sebelas Maret Surakarta (Indonesia)). *Caraka Tani* (Indonesia) ISSN

0854-3984 (1999) v. 15(1) p. 1-6 5 ref. Summary (In)

PANAX PSEUDOGINSENG; PLANT PROPAGATION; CULTURE MEDIA; PROPAGATION MATERIALS.

F03 SEED PRODUCTION / PRODUKSI DAN PERLAKUAN TERHADAP BIJI DAN BENIH

0461 ISWANTO, A. [The production and seed differences among cacao hybrid F1, F1 clonal and F2]. Perbedaan produksi dan karakter biji antara hibrida kakao F1, klonal F1, dan keturunan F2/Iswanto, A. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1999) v. 15(2) p. 235-239 4 tables; 10 ref.

THEOBROMA CACAO; F1 HYBRIDS; F2 HYBRIDS; PLANT ANATOMY; CLONES; SEED PRODUCTION.

0462 RAHARDJO, P. [The status of coffee and cacao seedling in Indonesia and its improvement]. Kondisi perbenihan kopi dan kakao di Indonesia dan peluang perbaikannya/Rahardjo, P. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 69-73 2 tables; 2 ref.

COFFEA; THEOBROMA CACAO; SEED; QUALITY; SEEDLINGS; PRODUCTION.

0463 SADJAD, S. [Basal seed program: successful key of seed industry in Indonesia]. Program benih dasar: kunci sukses industri/Sadjad, S. (Institut Pertanian Bogor, (Indonesia)). [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 4) 4 p.

INDONESIA; SEED PRODUCTION; SEED TECHNOLOGY.

0464 SUGIYANTO, W. [Increasing private role on national seed industry through accreditation system]. Meningkatkan peran swasta dalam industri nasional perbenihan melalui sistem akreditasi/Sugiyanto, W. (Badan Agribisnis, Jakarta (Indonesia). Pusat Standarisasi dan Akreditasi). [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 8) 12 p.

FOOD CROPS; HORTICULTURE; FISHERIES; ANIMAL HUSBANDRY; SEED INDUSTRY; PRIVATE SECTOR; QUALITY.

0465 SUHENDI, D. [Developing cacao seed plantations and its certification procedure]. Pembangunan kebun benih kakao dan prosedur sertifikasinya/Suhendi, D. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 97-102 5 ref.

THEOBROMA CACAO; SEED; PRODUCTION LOCATION; LAND SUITABILITY.

0466 UMAR, S. [Effect of seed treatment using Regent 50 SC on grain quality of direct seeded rice]. Pengaruh perlakuan benih dengan Regent 50 SC terhadap kualitas hasil padi pada cara tanam benih langsung/Umar, S.; Damanik, M. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung

(Indonesia): HIGI; Peragi, 1999 p. 263-266 2 tables; 6 ref. Summary (En)

ORYZA SATIVA; DIRECT SOWING; SEED TREATMENT; QUALITY; INSECTICIDES; YIELD COMPONENTS.

0467 WIDIASTUTI, H. Response of oil palm seedling on selected AM fungi inoculation at several doses of fertilization. Respon bibit kelapa sawit terhadap inokulasi cendawan MA terpilih pada beberapa tingkat pemupukan/Widiastuti, H.; Darmono, T.W.; Goenadi, D.H. (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)). *Menara Perkebunan* (Indonesia) ISSN 0215-9318 (1998) v. 66(1) p. 36-46 2 ill., 5 tables; 22 ref. Summaries (En, In)

ELAEIS GUINEENSIS; VESICULAR ARBUSCULAR MYCORRHIZAE; FUNGI; SEEDLINGS; SYMBIOSIS; INOCULATION; FERTILIZER APPLICATION; APPLICATION RATES; NUTRIENT UPTAKE.

0468 WIJANA, G. [Research results of conservation and development of Salak varieties Gulapasar]. Hasil-hasil penelitian pelestarian dan pengembangan Salak Gulapasar/Wijana, G. [Research Result Report of Animal Husbandry and Food Crops]. Risalah Hasil Penelitian Peternakan dan Tanaman Pangan/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Denpasar (Indonesia). Denpasar (Indonesia): IPPTP, 1997 p. 52-57 9 ref. Appendices

SALACCA; VEGETATIVE PROPAGATION; FRUITS; QUALITY.

0469 YUDONO, P. [Seed production program and its constraint in Indonesia]. Program perbenihan dan kendalanya di Indonesia/Yudono, P. (Universitas Gadjah Mada, Yogyakarta (Indonesia)). Fakultas Pertanian. [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 3) 7 p. 4 ref.

FOOD CROPS; SEED PRODUCTION; DEVELOPMENT POLICIES; INDONESIA.

F04 FERTILIZING / PEMUPUKAN

0470 ANDAYANI, A. [Nutritional status on the quality of vegetable hybrid seed]. Pengaturan nutrisi untuk kualitas benih hibrida dalam pengembangan sayuran/Andayani, A. (Balai Latihan Pegawai Pertanian, Wonocatur, Yogyakarta (Indonesia)). [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 9) 12 p. 3 ill., 15 ref.

VEGETABLE CROPS; HYBRIDS; SEED; QUALITY; NUTRITIONAL STATUS; FERTILIZER APPLICATION; APPLICATION RATES; NUTRIENT UPTAKE.

0471 BUDIANTA, D. Evaluation of exchangeable aluminium in an amendments ultisol. Evaluasi aluminium dapat dipertukarkan pada ultisol yang diberi amandemen/Budianta, D. (Universitas Sriwidjaya, Palembang (Indonesia). Fakultas Pertanian). *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(2) p. 78-88 4 tables; 27 ref. Summary (In)

MUCUNA; ACRISOLS; DOLOMITE; ORGANIC MATTER; ALUMINIUM; PH.

0472 BUDIANTA, D. Utilization of zeolite mineral fertilizer for soil fertility to support crop productivity. Manfaat pupuk mineral zeolite pada kesuburan tanah untuk menunjang produktivitas tanaman pangan/Budianta, D. (Universitas Sriwijaya, Indralaya, Palembang (Indonesia). Fakultas Pertanian). *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 30-34 2 tables; 10 ref. Summary (En)

FOOD CROPS; ZEOLITES; INORGANIC FERTILIZERS; SOIL FERTILITY; SOIL PORE SYSTEM; NUTRIENT UPTAKE; PRODUCTIVITY.

0473 GUNTORO, W. [Effect of kind of stable manure and EM4 concentration on growth and production of strawberry]. Pengaruh macam pupuk kandang dan konsentrasi EM4, terhadap pertumbuhan dan hasil tanaman strawberry

(*Fragaria sp.*)/Guntoro, W.; Ridho, C. *Jurnal Pertanian Mapeta* (Indonesia) (1999) v. 1(3) p. 35-39 1 ill., 6 tables; 23 ref. Summary (En)

FRAGARIA; FARMYARD MANURE; CELL CULTURE; SOIL MICROORGANISMS; SOIL FERTILITY; FERTILIZER COMBINATIONS; DOSAGE EFFECTS; GROWTH RATE; YIELDS; FERTILIZER APPLICATION.

0474 HADI, M.S. [Possibility of calcium application for increasing production and quality of upland rice]. Kemungkinan aplikasi kalsium (Ca) untuk peningkatan produksi dan kualitas padi ladang/Hadi, M.S. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian) . [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 267-270 1 table., 14 ref. Summary (En)

UPLAND RICE; CALCIUM; APPLICATION RATES; PRODUCTION INCREASE; SOIL PH; QUALITY.

0475 HUTABARAT, B. Rice farmer's risk attitude: an analysis of production risk in West Java/Hutabarat, B. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. *Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian: Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 175-187 8 tables*

RICE; FARMERS; PRODUCTION; RISK; JAVA.

0476 MALA, Y. [Potential of *Trichoderma harzianum* development as a rice straw

decomposer in lowland rice field]. Potensi pengembangan *Trichoderma harzianum* sebagai dekomposer limbah jerami padi pada usaha tani padi sawah/Mala, Y. (Balai Pengkajian Teknologi Pertanian Sukarami, Padang (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 294-299 5 tables; 13 ref. Summary (En)

FLOODED RICE; FARMING SYSTEMS; RICE STRAW; DEGRADATION; TRICHODERMA HARZIANUM; COMPOSTING; MICROBIOLOGICAL ANALYSIS.

0477 MUNANDAR. [Problems of lodging, nitrogen fertilizer management and suitable rice varieties for direct seeded system]. Masalah kerebahan, pengelolaan pupuk nitrogen dan karakteristik varietas padi yang sesuai untuk tabela/Munandar; Achadi, T.; Nusyirwan (Universitas Sriwijaya, Palembang (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 230-236 3 tables; 14 ref. Summary (En)

ORYZA SATIVA; VARIETIES; DIRECT SOWING; NITROGEN FERTILIZERS; APPLICATION RATES; AGRONOMIC CHARACTERS; LODGING; ROOT SYSTEMS; APPLICATION DATE; YIELD COMPONENTS.

0478 SUFIANTO. [Zeolite scale application on composting of cow manures using *Zingiber officinale* as indicator plant which still green harvested]. Kajian penggunaan ukuran Zeolit terhadap pengomposan kotoran ternak sapi dengan tanaman indikator jahe (*Zingiber officinale* Rosc.) yang dipanen muda/Sufianto (Universitas Muhammadiyah, Malang (Indonesia). Fakultas Pertanian). *Tropika* (Indonesia) ISSN 0854-6533 (1998) v. 6(2) p. 191-198 5 tables; 16 ref. Summary (In)

ZINGIBER OFFICINALE; ZEOLITES; COMPOSTING; FARMYARD MANURE; ORGANIC FERTILIZERS; APPLICATION RATES; HARVESTING.

F06 IRRIGATION / IRIGASI

0479 PASANDARAN, E. Irrigation investment in Indonesia: trend and determinant/Pasandaran, E.; Rosegrant, M.W. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. *Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian*; Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 56-71 6 tables

FOOD CROPS; IRRIGATION; INVESTMENT; IRRIGATED LAND; INDONESIA.

F07 SOIL CULTIVATION / PENGOLAHAN TANAH

0480 BAON, J.B. [Conservation of soil moisture using organic and mulches treatment]. Konservasi lengas tanah melalui pemberian bahan organik dan mulsa/Baon, J.B. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 61-68 3 ill., 9 ref.

SOIL WATER CONTENT; SOIL CONSERVATION; WATER REQUIREMENTS; MULCHES; ORGANIC MATTER; SOIL WATER DEFICIT.

F08 CROPPING PATTERNS AND SYSTEMS / POLA TANAM DAN SISTEM PENANAMAN

0481 ADRIZAL. [Effect of planting method on growth of weeds and growth and yield of direct seeded lowland rice]. Pengaruh cara tanam terhadap pertumbuhan gulma dan hasil padi sawah tanam benih langsung/Adrizaral; Kari, Z. (Balai Pengkajian Teknologi Pertanian, Sukarami (Indonesia)); Aswad, D. [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 128-131 4 tables; 8 ref. Summary (En)

FLOODED RICE; DIRECT SOWING; CROPPING SYSTEMS; YIELD COMPONENTS; WEEDS; PLANTING; POPULATION GROWTH; CROP PERFORMANCE.

0482 DARMOSARKORO, W. [Farming system of oil palm]. Usaha tani kelapa sawit terpadu/Darmosarkoro, W.; Purba, A.; Harahap, I.Y. (eds.). Pusat Penelitian Kelapa Sawit, Medan (Indonesia). Bogor (Indonesia): Badan Penelitian dan Pengembangan Kehutanan dan Perkebunan, 2000 11 p. 3 tables; 7 ref. Summary (In)

ELAEIS GUINEENSIS; ZEA MAYS; SHEEP; FARMING SYSTEMS; INTERCROPPING; YIELDS; FARM INCOME; COST BENEFIT ANALYSIS.

0483 GRIST, P. Rubber: Indonesia/Grist, P.; Menz, K. (Centre for Resource and Environmental Studies, Canberra (Australia)); Thomas. Improving smallholder farming systems in Imperata areas of Southeast Asia: alternatives to shifting cultivation/Menz, K.; Magcale-Macandog, D.; Rusastra, I W. Canberra

(Australia): ACIAR. *ACIAR Monograph* (Australia) (No. 52) p. 161-171 5 ill., 3 tables

RUBBER CROPS; IMPERATA; COVER PLANTS; GROWTH; INFESTATION; LIGHT REQUIREMENTS; WEED CONTROL; YIELDS; COST BENEFIT ANALYSIS.

0484 GUNAWAN, M. *Paraserianthes falcataria* growing in Sumedang, West Java (Indonesia)/Gunawan, M.; Susilawati, S.H.; Budhi, G.S.; Rusastra, I W. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). Improving smallholder farming systems in Imperata areas of Southeast Asia: alternatives to shifting cultivation/Menz, K.; Magcale-Macandog, D.; Rusastra, I W. Canberra (Australia): ACIAR. *ACIAR Monograph* (Australia) (No. 52) p. 45-54 6 tables

PARASERIANTHES FALCATARIA; FOOD CROPS; INTERCROPPING; YIELDS; LAND SUITABILITY; FARM INCOME; COST BENEFIT ANALYSIS; JAVA.

0485 RUSASTRA, I W. Biophysical and economic evaluation of hedgerow intercropping using scaaf in Lampung, Indonesia/Rusastra, I W.; Susilawati, S.H.; Budhi, G.S.; Grist, P. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisatra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 111-118

FOOD CROPS; BIOPHYSICS; FARMING SYSTEMS; ECONOMICS; SUMATRA.

0486 RUSASTRA, I W. Flemingia hedge-rows/Rusastra, I W.; Susilawati, S.H.; Budhi, G.S. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)); Grist, P. Improving smallholder farming systems in Imperata areas of Southeast Asia: alternatives to shifting cultivation/Menz, K.; Magcale-Macandog, D.; Rusastra, I W. Canberra (Australia): ACIAR. *ACIAR Monograph* (Australia) (No. 52) p. 149-159 1 ill., 6 tables

FLEMINGIA; IMPERATA CYLINDRICA; INTERCROPPING; SOIL FERTILITY; LOWLAND; YIELDS; SOIL CONSER-

VARIATION; COST BENEFIT ANALYSIS; SUMATRA.

F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN

0487 LESTARI, P. [Exploration of thermostabil enzyme from thesophilic microorganisms]. Eksplorasi enzim termostabil dari mikroba termofil/Lestari, P. (Universitas Jenderal Soedirman, Purwokerto (Indonesia)). *Hayati: Jurnal Biosains* (Indonesia) ISSN 0854-8587 (2000) v. 7(1) p. 21-25 1 ill.; 1 table; 5 ref.

THERMOPHILIC MICROORGANISMS; ENZYMES.

0488 MAWIKERE, N.L. Cloning repetitive DNA sequences of "Genjah Kuning Nias" dwarf coconut palm. Kloning DNA sekuen berulang tanaman kelapa kultivar Genjah Kuning Nias/Mawikere, N.L. (Universitas Cendrawasih, Manokwari (Indonesia). Fakultas Pertanian). *Hayati: Jurnal Biosains* (Indonesia) ISSN 0854-8587 (1999) v. 6(3) p. 56-59 5 ill., 11 ref. Summary (En)

COCOS NUCIFERA; ESCHERICHIA COLI; MOLECULAR CLONING; DNA HYBRIDIZATION; PCR.

0489 NOVARIANTO, H. [Exploration and collection of coconut germplasm in Nusa Tenggara and Maluku (Indonesia)]. Eksplorasi dan koleksi plasma nutfah kelapa di Nusa Tenggara dan Maluku/Novarianto, H.; Tampake, H.; Mangindaan, H.; Lengkey, H.G.; Espandin, D. (Balai Penelitian Tanaman Kelapa, Manado (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN 0853-8204 (1998) v. 4(1-2) p. 6-9

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; SELECTION CRITERIA; NUSA TENGGARA; MALUKU.

0490 NURHAIMI-HARIS. RAPD analysis of genetic variability in rubber (*Hevea brasiliensis* Muell. Arg.) plant clones. Analisis RAPD

variasi genetik pada klon tanaman karet (*Hevea brasiliensis* Muell. Arg.)/Nurhaimi-Haris (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)); Woelan, S.; Darussamin, A. *Menara Perkebunan* (Indonesia) ISSN 0215-9318 (1998) v. 66(1) p. 9-19 2 ill., 2 tables; 19 ref. Summaries (En, In)

HEVEA BRASILIENSIS; GENETIC VARIATION; CLONES; RAPD; PHYLOGENY.

0491 SOEMARTONO. [Plant breeding and seed industry in modern agricultural era]. Pemuliaan tanaman dan industri perbenihan pada era pertanian modern/Soemartono (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 5) 7 p. 10 ref.

CROPS; GERMPLASM; BIODIVERSITY; SEED PRODUCTION; PLANT BREEDING.

0492 SULISTYOWATI, E. [Prospect of Bt transgenic cotton varieties in Indonesia]. Prospek pengembangan varietas kapas transgenik Bt di Indonesia/Sulistyowati, E.; Hasnam (Balai Penelitian Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN 0853-8204 (1998) v. 4(1-2) p. 14-17

GOSSYPIMUM; VARIETIES; TRANSGENIC PLANTS; PEST RESISTANCE; LEPIDOPTERA; HELICOVERPA ARMIGERA; PECTINOPHORA GOSSYPIELLA; BACILLUS THURINGIENSIS; INDONESIA.

0493 WATTIMENA, G.A. [Fast and high yielding varieties assembling using biotechnology breeding methods]. Merakit varietas tanaman secara cepat dan unggul dengan metode pemuliaan bioteknologi/Wattimena, G.A. (Institut Pertanian Bogor (Indonesia)). [Proceedings of the National Seminar on Seed Production: Agronomy]. Seminar Nasional Perbenihan: Budidaya Perbenihan/Agribusiness

Development and Industrial Product Marketing Foundation, Yogyakarta (Indonesia). Yogyakarta (Indonesia): ADAPTIF, 1999 (pt. 7) 20 p. 9 ref.

LEGUMES; HIGH YIELDING VARIETIES; BIOTECHNOLOGY; GENOTYPES; ANTHOR CULTURE; PROTOPLAST FUSION; TRANSGENIC PLANTS; INDONESIA.

F40 PLANT ECOLOGY / EKOLOGI TANAMAN

0494 SETIAWAN, K. [Improving root activities: an alternative for upland rice varieties development resistance to drought]. Perbaikan aktivitas akar: suatu alternatif pengembangan varietas padi gogo tanah kering/Setiawan, K. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 271-276 1 ill., 25 ref. Summary (En)

UPLAND RICE; VARIETIES; DROUGHT RESISTANCE; ROOTING; PRODUCTION INCREASE; EFFICIENCY; WATER USE; GENOTYPE ENVIRONMENT INTERACTION; ADAPTATION.

F50 PLANT STRUCTURE / MORFOLOGI DAN ANATOMI TANAMAN

0495 SUHENDI, D. [The manual of cacao clone DR1, DR2, DR38, and DR16]. Pedoman singkat mengenal klon kakao DR1, DR2, DR38 dan DR16/Suhendi, D. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN

0215-1308 (1999) v. 15(2) p. 221-229 10 ill.; 5 tables; 4 ref.

THEOBROMA CACAO; CLONES; PLANT ANATOMY; IDENTIFICATION.

F60 PLANT PHYSIOLOGY AND BIOCHEMISTRY / FISILOGI DAN BOKIMIA TANAMAN

0496 SIMANJUNTAK, P. [Pyrethrin analysis result from tissue culture of krisan (*Chrysanthemum morifolium*)]. Analisis senyawa kimia insektisida Piretrin dari hasil kultur jaringan tanaman "Krisan", *Chrysanthemum morifolium* (Asteraceae)/Simanjuntak, P.; Zerlita, M.; Ermayanti, T.M. (Pusat Pengembangan Bioteknologi-LIPI, Bogor (Indonesia)). *Warta AKAB* (Indonesia) ISSN 0215-9929 (1999) (no. 11) p. 1-13 10 ill., 3 tables; 4 ref. Summary (En)

DENDRANTHEMA MORIFOLIUM; PYRETHRINS; TISSUE CULTURE; GAS CHROMATOGRAPHY; HPLC.

F70 PLANT TAXONOMY AND GEOGRAPHY / TAKSONOMI TANAMAN DAN SEBARAN GEOGRAFI

0497 POLKE, D.S. Novelties in *Alysicarpus desv.* (Fabaceae) from India/Polke, D.S. (Deogiri College, Aurangabad (India). Department of Botany). *Reinwardtia: A Journal on Taxonomic Botany, Plant Sociology and Ecology* (Indonesia) ISSN 0034-365X (1999) v. 11(4) p. 285-294 4 ill., 3 tables. Summaries (En, In)

LEGUMINOSAE; ALYSICARPUS; TAXA; NEW SPECIES; VARIETIES; TAXONOMY; PLANT ANATOMY; POPULATION DISTRIBUTION; MAHARASHTRA; ANDHRA PRADESH.

0498 RUGAYAH. Conspectus of *Trichosanthes* (Cucurbitaceae) in Malaysia/Rugayah (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); De Wilde, W.J.J.O. *Reinwardtia: A Journal on Taxonomic Botany, Plant Sociology and Ecology* (Indonesia) ISSN

0034-365X (1999) v. 11(4) p. 227-280 10 ill. Summaries (En, In)

TRICHOSANTHES; TAXA; NEW SPECIES; SUBSPECIES; VARIETIES; TAXONOMY; PLANT ANATOMY; POPULATION DISTRIBUTION; MALAYSIA; INDONESIA.

0499 WIDJAJA, E.A. New taxa in Indonesian bamboos/Widjaja, E.A. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). *Reinwardtia: A Journal on Taxonomic Botany, Plant Sociology and Ecology* (Indonesia) ISSN 0034-365X (1997) v. 11(2) p. 57-152 35 ill., 17 ref. Summaries (En, In)

BAMBUSA; DENDROCALAMUS; GIGANTOCHLOA; SCHIZACHYRIUM; NEW SPECIES; GERMPLOASM; PLANT ANATOMY; HABITATS; GEOGRAPHICAL DISTRIBUTION; USES; INDONESIA.

0500 WIDYARTINI, D.S. A new species of *Anadendrum* (Araceae) from Malaysia/Widyartini, D.S. (Universitas Jenderal Soedirman, Purwokerto (Indonesia). Fakultas Biologi); Widjaja, E.A. *Reinwardtia: A Journal on Taxonomic Botany, Plant Sociology and Ecology* (Indonesia) ISSN 0034-365X (1999) v. 11(4) p. 281-284 1 ill. Summaries (En, In)

ARACEAE; TAXA; NEW SPECIES; TAXONOMY; PLANT ANATOMY; POPULATION DISTRIBUTION; MALAYSIA.

H10 PESTS OF PLANTS / HAMA TANAMAN

0501 ADSAVAKULCHAI, A. Morphometric study for identification of the *Bactrocera dorsalis* complex (Diptera: Tephritidae) using wing image analysis/Adsavakulchai, A.; Baimai, V.; Prachyabrued, W. (Mahidol University, Bangkok (Thailand). Faculty of Science); Grote, P.J.; Lertlum, S. *Biotropis* (Indonesia) ISSN 0216-5023 (1999) (no. 3) p. 37-48 5 ill., 4 tables; 17 ref. Summary (En)

BACTROCERA DORSALIS; MORPHOGENESIS; STATISTICAL METHODS; WINGS; IMAGERY.

0502 AMIN, B. Integrated control of insect pests by *Steinernema carpocapsae*. Pengendalian terpadu serangga hama oleh *Steinernema carpocapsae*/Amin, B. (Universitas Syah Kuala, Banda Aceh (Indonesia). Fakultas Pertanian). *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(2) p. 158-164 21 ref. Summary (In)

CROPS; STEINERNEMA CARPOCAPSAE; INTEGRATED CONTROL; CHEMICAL CONTROL.

0503 BAEHAKI S.E. [National enemy and *Nilaparvata lugens* population dynamics in some irrigated water groups]. Dinamika populasi musuh alami dan wereng coklat di berbagai golongan air pengairan/Baehaki S.E.; Rifki. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 21) 15 p. 12 tables; 14 ref.

ORYZA SATIVA; NILAPARVATA LUGENS; NATURAL ENEMIES; PREDATORS; ANIMAL POPULATION; IRRIGATION WATER; JAVA.

0504 BAEHAKI S.E. [Brown planthopper and whiteback planthopper attack level on rice transplanting and direct seeding systems at two irrigation system in Jatiluhur, West Java (Indonesia)]. Tingkat serangan hama wereng penggerek batang padi pada tapin dan tabela di dua golongan air pengairan Jatiluhur/Baehaki S.E.; Rifki, A. (Balai Penelitian Tanaman Padi, Sukamandi, Subang (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar

Lampung (Indonesia): HIGI; Peragi, 1999 p. 122-127 9 ill., 7 ref. Summary (En)

ORYZA SATIVA; DIRECT SOWING; TRANSPLANTING; VARIETIES; NILAPARVATA LUGENS; STEM EATING INSECTS; POPULATION STRUCTURE; NATURAL ENEMIES; PAEDERUS; LYCOSA PSEUDO-ANNULATA; POPULATION DENSITY; IRRIGATION WATER; JAVA.

0505 JAUHARLINA. The potency of *Beauveria bassiana* Vuill. as an entomopathogenic fungi on armyworm (*Spodoptera litura* F.). Potensi *Beauveria bassiana* Vuill. sebagai cendawan entomopatogen pada hama ulat grayak (*Spodoptera litura* F.)/Jauharlina. *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 64-71 2 tables; 14 ref. Summary (En)

CROPS; SPODOPTERA LITURA; ENTOMOGENOUS FUNGI; LARVAE; BEAUVERIA BASSIANA; PATHOGENICITY; MORTALITY.

0506 KADIR, T.S. [Analysis of *Xanthomonas oryzae* population structure]. Analisis struktur populasi *Xanthomonas oryzae* pv. *oryzae*/Kadir, T.S. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 13) 2 p. 3 ref.

ORYZA SATIVA; VARIETIES; DISEASE RESISTANCE; XANTHOMONAS ORYZAE; INTEGRATED CONTROL.

0507 KARMAWATI, E. Population dynamic of *Helopeltis antonii* sign. On cashew. Dinamika populasi *Helopeltis antonii* sign. pada jambu mente/Karmawati, E.; Wahyono, T.E.; Savitri, T.H.; Laba, I.W. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). *Jurnal Penelitian Tanaman Industri* (Indonesia) ISSN 0853-8212 (1999) v. 4(6) p. 163-167 1 ill., 1 table; 10 ref. Summaries (En,In)

ANACARDIUM OCCIDENTALE; HELOPELTIS ANTONII; POPULATION DYNAMICS; PREDATORS; RELATIVE HUMIDITY;

INTEGRATED PEST MANAGEMENT; JAVA.

0508 PABBAGE, M.S. [Analysis of chemical and physical composition of sorghum varieties/lines on population growth of stored pests]. Analisis komposisi kimia dan fisik beberapa varietas/galur sorgum terhadap pertumbuhan populasi hama gudang/Pabbage, M.S.; Suarani; Nonci, N.; Baco, D. *Risalah Penelitian Jagung dan Serealia Lain* (Indonesia) ISSN 1410-8259 (1999) v. 3 p. 65-73 6 tables; 10 ref. Summary (En)

SORGHUM BICOLOR; SEEDS; CHEMICAL COMPOSITION; PEST CONTROL; VARIETIES; STORAGE; ANIMAL POPULATION; GROWTH; STORED PRODUCTS PESTS.

0509 SANTOSO, D. Construction of a series of pGEM/cryIA mutants uni-directionally deleted at the 5' end adjacent to the insert. Konstruksi serangkaian mutan pGEM/cryIA yang terdelesi searah pada ujung 5' yang berdekatan dengan gen/Santoso, D. (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)). *Menara Perkebunan* (Indonesia) ISSN 0215-9318 (1998) v. 66(1) p. 29-35 6 ill., 15 ref. Summaries (En, In)

THEOBROMA CACAO; ELAEIS GUINEENSIS; MUTANTS; GENES; TOXINS; INSECTA; STEM EATING INSECTS; LARVAE; LEPIDOPTERA; INSECT CONTROL.

0510 SIWI, S.S. [Phenology and intraspecific variation of *Nephotettix virescens* distant]. Fenologi dan variasi intraspesifik wereng hijau, *Nephotettix virescens* Distant/Siwi, S.S.; Trisnarningsih; Widiarta, I.N.; Hasanuddin, A. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 10) 8 p. 11 ref.

ORYZA SATIVA; NEPHOTETTIX VIRESCENS; ANIMAL MORPHOLOGY; TUNGRO DISEASE.

0511 SOEJITNO, J. [Biological diversity and ecosystem analysis for rice pest integrated management]. Diversitas biologi dan analisis ekosistem sebagai dasar pengelolaan hama terpadu tanaman padi/Soejitno, J.; Surjana, T.; Baehaki S.E. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 20) 12 p. 3 tables; 17 ref. Appendices

ORYZA SATIVA; ECOSYSTEMS; BIODIVERSITY; ANIMAL POPULATION; PAEDERUS; PARASITES; INTEGRATED PEST MANAGEMENT.

0512 SUBIYAKTO. [Utilization of neem as alternative control on cotton pest insects]. Pemanfaatan mimba sebagai alternatif pengendalian serangga hama kapas/Subiyakto; Dalnadio, G.; Supriyono; Diwang H.P. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN. 0853-8204 (1999) v. 4(4) p. 17-19 6 tables, 8 ref

GOSSYPIUM HIRSUTUM; PEST CONTROL; AZADIRACHTA INDICA; SEED EXTRACTS; PEST INSECTS; DOSAGE.

0513 SUDARMAJI. [Rat population dynamic supporting rat control in rice-based farming system area]. Penelitian dinamika populasi tikus sawah untuk menunjang pengendalian tikus di daerah usaha tani berbasis padi/Sudarmadji. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 15) 13 p. 5 tables; 2 ref.

RATS; ORYZA SATIVA; RODENT CONTROL; ANIMAL POPULATION; PRODUCTIVITY; POPULATION DYNAMICS; IRRIGATED LAND.

0514 WIDIARTA, N. [The development of pests and diseases on and after rice intensification program 300 (IP Padi 300)].

Perkembangan hama dan penyakit tanaman pada dan pasca-IP padi 300/Widiarta, N.; Hendarsih; Sudarmadji; Soejitno, J.; Kartaatmadja, S. [The Prospect of Rice Intensification Pattern 300 to Anticipate Climate Change and Food Crisis]. Seminar Nasional Prospek Pola IP Padi 300 Mengantisipasi Perubahan Iklim dan Krisis Pangan/Jakarta (Indonesia): Badan Litbang Pertanian, 1999 (pt. 1) 15 p. 1 table. Appendices

ORYZA SATIVA; PESTS OF PLANTS; PLANT DISEASES; NEPHOTETTIX VIRESCENS; SCIRPOPHAGA; RATS; NILAPARVATA LUGENS.

H20 PLANT DISEASES / PENYAKIT TANAMAN

0515 DARADJAT, A.A. [Rice varieties rotation controlling bacterial leaf blight disease]. Pergiliran varietas untuk mengendalikan hawar daun bakteri (HDB)/Daradjat, A.A.; Kadir, T.S. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 14) 5 p. 4 tables; 4 ref.

ORYZA SATIVA; DISEASE CONTROL; CROP ROTATION; VARIETIES.

0516 HIFNI, H.R. [Screening of rice lines resistance to *Xanthomonas oryzae*]. Skrining ketahanan galur padi terhadap penyakit hawar daun bakteri (HDB)/Hifni, H.R. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 5) 9 p. 3 tables; 6 ref.

ORYZA SATIVA; XANTHOMONAS ORYZAE; SELECTION; DISEASE RESISTANCE; VARIETIES; JAVA.

0517 KADIR, T.S. [Screening of rice varieties resistance to *Xanthomonas oryzae*]. Skrining varietas/galur terhadap hawar daun bakteri

(HDB)/Kadir, T.S. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 4) 10 p. 6 tables; 6 ref.

ORYZA SATIVA; XANTHOMONAS ORYZAE; PLANT DISEASES; SELECTION; DISEASE RESISTANCE.

0518 SUWARSO. [Disease control on Temanggung Tobacco on lincat (high pathogen population) soil]. Pengendalian penyakit pada Tembakau Temanggung di lahan lincat/Suwarso; Gembong, D.; Hartiniadi I, S. (Balai Penelitian Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN 0853-8204 (1998) v. 4(1-2) p. 13-14

NICOTIANA TABACUM; DISEASE CONTROL; POLLUTED SOIL.

0519 WAKMAN, W. [Maize mosaic disease host and Helminthosporium leaf spot of maize]. Inang penyakit mosaik dan bercak daun jagung Helminthosporium/Wakman, W.; Koesnang; Kontong, M.S.; Pakki, S. *Risalah Penelitian Jagung dan Serealia Lain* (Indonesia) ISSN 1410-8259 (1999) v. 3 p. 53-57 1 table; 12 ref. Summary (En)

ZEA MAYS; HELMINTHOSPORIUM; PLANT VIRUSES; INOCULATION; GRASSES; HOSTS.

0520 YULIANTO. [Selective eradication test of weed as source of tungro virus inoculum]. Uji eradikasi selektif gulma sebagai sumber inokulum virus tungro/Yulianto; Hasanuddin, A.; Sutisna, E. Compilation of Papers of Agricultural Research Results 1998/1999; 4th Book. Kumpulan Makalah Hasil Penelitian 1998/1999; Buku IV/Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi (Indonesia): BALITPA, 1999 (pt. 9) 5 p. 1 table; 6 ref.

ORYZA SATIVA; WEEDS; VIROSES; TUNGRO DISEASE; CYPERUS ROTUNDUS; NEPHOTETTIX VIRESCENS; PREDATORS;

ENDEMIC; HOSTS; DISEASE CONTROL; JAVA.

H50 MISCELLANEOUS PLANT DISORDERS / KELAINAN LAIN PADA TANAMAN

0521 SISWANTO. Hen egg-yolk antibody for detection of protein markers of tapping panel dryness in rubber trees. Antibodi kuning telur ayam untuk deteksi protein penanda kekeringan alur sadap pada tanaman karet/Siswanto (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)). *Menara Perkebunan* (Indonesia) ISSN 0215-9318 (1998) v. 66(1) p. 20-28 4 ill., 17 ref. Summaries (En, In)

HEVEA BRASILIENSIS; ANTIBODIES; EGG YOLK; TAPPING; LATEX; PHYSIOLOGICAL FUNCTIONS; ELISA.

H60 WEEDS AND WEED CONTROL / GULMA DAN PENGENDALIAN GULMA

0522 KASNO. Integrated use of *Neochetina bruchi* and *Alternaria eichhorniae* in controlling water hyacinth/Kasno; Sunjaya; Putri, A.S.R.; Dharmaputra, O.S.; Handayani, H.S. (SEAMEO BIOTROP, Bogor (Indonesia)). *Biotropis* (Indonesia) ISSN 0216-5023 (1999) (no. 3) p. 1-17 2 ill., 7 tables, 16 ref. Summary (En). Appendices

EICHHORNIA CRASSIPES; NEOCHETINA; ALTERNARIA; FEEDING HABITS; BIOLOGICAL CONTROL; OVIPOSITION; JAVA.

0523 SUMIASRI, N. The diversity of weeds on agro-ecosystem in Gunung Sindur Bogor. Evaluasi jenis gulma pada agro-ekosistem daerah Gunung Sindur Bogor/Sumiasri, N. (Pusat Penelitian dan Pengembangan Bioteknologi LIPI, Bogor (Indonesia)); Setyowati-Indarto, N. *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 59-63 1 ill., 1 table; 4 ref. Summary (En)

FOOD CROPS; MONOCULTURE; MULTIPLE CROPPING; WEEDS; BIODIVERSITY; AGROECOSYSTEMS; PLANT COMPETITION; JAVA.

J10 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF AGRICULTURAL PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PERTANIAN

0524 ARIFIN, I.Z. [Handling of horticultural commodities for export]. Penanganan komoditas hortikultura untuk ekspor/Arifin, I.Z. (Badan Agribisnis, Jakarta (Indonesia)). *Info Agribisnis (Indonesia)* ISSN 0853-1510 (1996) v. 3(2) p. 15-19 2 tables. Appendices

HORTICULTURE; POSTHARVEST TECHNOLOGY; KEEPING QUALITY; METABOLISM; ENVIRONMENTAL CONTROL; ORGANOLEPTIC PROPERTIES.

0525 HASTUTI, E.W. [Planning of sugarcane transportation system of the sugar factory Rejo Agung Baru Madiun, Java (Indonesia)]. Perencanaan sistem transportasi tebu di pabrik gula Rejo Agung Baru, Madiun/Hastuti, E.W.; Darmadjati, E.; Sudiby, D. *Jurnal Pertanian Mapeta (Indonesia)* (1999) v. 1(3) p. 20-25 1 ill., 1 table; 6 ref. Summary (En)

SUGAR CANE; TRANSPORT; DISTRIBUTION COSTS; TOTAL COSTS; FACTORIES; JAVA.

J11 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF PLANT PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL TANAMAN

0526 DHARMAPUTRA, O.S. Fungal infection and possibility of aflatoxin contamination on black and white pepper. Serangan cendawan pascapanen dan kemungkinan kontaminasi aflatoxin pada lada hitam dan lada putih/Dharmaputra, O.S. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Putri, A.S.R.; Setiawati, W. *Hayati: Jurnal Biosains (Indonesia)* ISSN 0854-8587 (1999) v. 6(3) p. 70-73 4 tables; 21 ref. Summary (En)

PIPER NIGRUM; FUNGI; POSTHARVEST CONTROL; AFLATOXINS; CONTAMINATION; MOISTURE CONTENT.

0527 SAENONG, S. [Seed viability deterioration of maize at different seed moisture contents and temperature storability]. Kemunduran viabilitas benih jagung pada berbagai kadar air benih dan suhu ruang simpan/Saenong, S.; Syafruddin. *Risalah Penelitian Jagung dan Serealia Lain (Indonesia)* ISSN 1410-8259 (1999) v. 3 p. 45-52 4 ill., 4 tables; 12 ref. Summary (En)

ZEA MAYS; SEEDS; MOISTURE CONTENT; STORAGE; TEMPERATURE; GERMINATION.

J14 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF FISHERIES AND AQUACULTURE PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PERIKANAN DAN BUDIDAYA PERAIRAN

0528 DWIYITNO. [Postharvest of milk fish]. Pasca panen ikan bandeng/Dwiyitno; Darmawan. [Monograph on biology and milk fish culture]. Monograf biologi dan budidaya bandeng/Bachrein, S.; Rochjat D., M.; Subarna, T. (eds.). Balai Pengkajian Teknologi Pertanian, Lembang (Indonesia). Lembang (Indonesia): BPTP, 2000 p. 38-42. *Monograf Berseri Balai Pengkajian Teknologi Pertanian Lembang (Indonesia)* (2000) (no. 2) 1 ill., 1 table; 3 ref.

MILKFISH; POSTHARVEST CONTROL; AUTOLYSIS; PRESERVATION; PROCESSING.

K10 FORESTRY PRODUCTION / PRODUKSI HUTAN

0529 SAVITRI, E. [Alternative of farming system at forestry area with social forestry program]. Alternatif usahatani di kawasan hutan dengan program perhutanan sosial/Savitri, M. (Balai Teknologi Pengelolaan Daerah Aliran Sungai, Surakarta (Indonesia)). [Proceedings on

Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 235-239 1 table; 5 ref. Summary (In)

SOCIAL FORESTRY; AGROFORESTRY; FARM SIZE; FARM INCOME; FARMING SYSTEMS.

0530 WASRIN, U.R. Spectral and textural characteristics of the lowland tropical rain forest of Jambi, Sumatra/Wasrin, U.R.; Arief, M.; Setiabudhi (Bogor Agricultural University (Indonesia). Faculty of Forestry). *Biotropis* (Indonesia) ISSN 0216-5023 (1999) (no. 3) p. 18-36 14 ill., 10 tables; 6 ref. Summary (En)

SUMATRA; TROPICAL RAIN FORESTS; LOWLAND; REMOTE SENSING; SECONDARY FORESTS; VIRGIN FORESTS; BOTANICAL COMPOSITION.

K50 PROCESSING OF FOREST PRODUCTS / PENGOLAHAN HASIL HUTAN

0531 PARI, G. Characterization of activated charcoal from sengan sawdust charcoal with NH_4HCO_3 as an activator agent. Karakterisasi arang aktif dari arang serbuk gergajian sengan dengan bahan aktif NH_4HCO_3 /Pari, G. (Badan Penelitian dan Pengembangan Kehutanan dan Perkebunan (Indonesia)). *Buletin Penelitian Hasil Hutan* (Indonesia) ISSN 0852-1638 (1999) v. 17(2) p. 89-100 2 ill., 5 tables; 9 ref. Summaries (En, In)

CHARCOAL; ACTIVATED CARBON; SAWDUST; IODINE; BENZENE; QUALITY; ABSORPTION; MOISTURE CONTENT; ASH CONTENT.

0532 SIAGIAN, R.M. The influence of bleaching techniques on properties of sulphate pulps of their bleach- effluents. Pengaruh teknik pemutihan pulp sulfat terhadap mutu pulp dan limbah cair/Siagian, R.M.; Roliadi, H.; Purba, K.; Melina (Badan Penelitian dan

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EUCALYPTUS UROPHYLLA; PODOCARPUS; PULP; BLEACHING; MECHANICAL PROPERTIES; WASTEWATER; POLLUTANT LOAD; QUALITY.

L01 ANIMAL HUSBANDRY / PETERNAKAN

0533 ABUBAKAR. [Inventory of consumption egg qualities]. Inventarisasi mutu telur konsumsi/Abubakar; Triyantini; Sirait, C.H.; Sunarlim, R. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/ Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 893-897 3 tables; 14 ref. Summary (In)

EGGS; QUALITY; CONSUMPTION.

0534 ADIKARA, R.S.T. [Utilization and harmful of "laser puncture" for fattening of stabling]. Manfaat dan bahaya "laser puncture" untuk penggemukan ternak sapi kereman/ Adikara, R.S.T. [Research Result Report of Animal Husbandry and Food Crops]. Risalah Hasil Penelitian Peternakan dan Tanaman Pangan/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Denpasar (Indonesia). Denpasar (Indonesia): IPPTP, 1997 p. 11-15 2 ill., 5 ref.

COWS; LASERS; ACUPUNCTURE; FATTENING; GROWTH; BODY WEIGHT.

0535 MUSOFIE, A. [Assessment on beef cattle husbandry with artificial insemination technology in Daerah Istimewa Yogyakarta (Indonesia)]. Pengkajian sapi potong dengan teknologi inseminasi buatan di Daerah Istimewa Yogyakarta/Musofie, A.; Wardhani, N.K.; Lestari, S.B. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)).

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BEEF CATTLE; ARTIFICIAL INSEMINATION; REPRODUCTIVE PERFORMANCE; FEEDING; FARMERS ASSOCIATIONS.

0536 MUSOFIE, A. [Assessment of goat husbandry development in Daerah Istimewa Yogyakarta (Indonesia)]. Pengkajian pengembangan usaha peternakan kambing di Daerah Istimewa Yogyakarta/Musofie, A.; Wardhani, N.K.; Lestari, S.B. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 260-275 6 tables, 8 ref. Summary (In)

GOATS; ANIMAL HUSBANDRY; RURAL ENVIRONMENT; FLUSHING; ARTIFICIAL INSEMINATION; FARM INCOME; AGRICULTURAL WORKERS; INNOVATION ADOPTION; JAVA.

0537 SIHOMBING, D.T.H. [Promising animals I: science introduction and culture techniques of lumbricus, snails, golden apple snails, butterflies, silkworms]. Satwa harapan I: pengantar ilmu dan teknologi budidaya: cacing tanah, bekicot, keong mas, kupu-kupu, ulat sutera/Sihombing, D.T.H. (Institut Pertanian Bogor (Indonesia). Fakultas Peternakan). Bogor (Indonesia): Pustaka Wirausaha Muda, 1999 234 p. 32 ill., 37 tables, bibliographies, Appendices

LUMBRICIDAE; HELIX; POMACEA; HESPERIIDAE; PAPILIONIDAE; BOMBYX MORI; ANIMAL MORPHOLOGY; ANIMAL HUSBANDRY; SERICULTURE; SNAIL CULTURE; ECOLOGY; ANIMAL PRODUCTION; NUTRITIVE VALUE.

0538 SRIWAHYUNI. [Dairy cattle farming in Lembang: potency and its problems (Indonesia)]. Usaha ternak sapi perah di Lembang: potensi dan permasalahannya/Sriwahyuni (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/ Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 697-708 11 tables; 4 ref. Summary (In)

DAIRY CATTLE; ANIMAL HUSBANDRY; LIVESTOCK; ECOLOGY; ECONOMIC SOCIOLOGY; JAVA.

0539 SUNARLIM, R. [Evaluation of goat/sheep carcass qualities and slaughter houses in West Java (Indonesia)]. Evaluasi mutu karkas domba/kambing dan rumah pemotongan hewan di Jawa Barat/Sunarlim, R.; Setiyanto, H. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/ Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 877-881 1 table; 5 ref. Summary (In)

GOATS; SHEEP; MEAT; QUALITY; CARCASSES; ABATTOIRS; JAVA.

0540 SUPRIADI. [Management of dairy cattle husbandry for supporting conservation farming system on dry land in Daerah Istimewa Yogyakarta (Indonesia)]. Manajemen usaha ternak sapi perah dalam menunjang sistem usahatani konservasi di lahan kering Daerah Istimewa Yogyakarta/Supriadi (Instalasi Penelitian dan Pengkajian Teknologi Pertanian,

Yogyakarta (Indonesia)); Nugroho; Masbulan, E.; Pamuji, A.D. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 401-410 1 ill., 7 tables; 6 ref. Summary (In)

DAIRY CATTLE; ANIMAL HUSBANDRY; ANIMAL HOUSING; REPRODUCTIVE PERFORMANCE; MILK YIELD; FEEDING; ECONOMIC ANALYSIS.

0541 WARDHANI, N.K. [Assessment of broiler and layer chicken husbandry development in Daerah Istimewa Yogyakarta (Indonesia)]. Pengkajian pengembangan usaha ayam buras di Daerah Istimewa Yogyakarta/Wardhani, N.K.; Musofie, A.; Lestari, S.B. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 287-296 4 tables, 10 ref. Summary (In)

BROILER CHICKENS; LAYER CHICKENS; ANIMAL HUSBANDRY METHODS; FEED CONVERSION EFFICIENCY; MORTALITY; HATCHERIES; ANIMAL PERFORMANCE; INNOVATION ADOPTION.

L02 ANIMAL FEEDING / MAKANAN TERNAK

0542 SEMAUN, S.W. [Protein wastes and its utilization in poultry feed]. Limbah protein dan pemanfaatannya pada pakan ternak unggas/Semaun, S.W. (Balai Penerapan dan Pengkajian Teknologi, Jakarta (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar

Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 687-694 7 tables; 10 ref. Summary (In)

POULTRY; FOOD WASTES; WASTE UTILIZATION; FEEDS.

L10 ANIMAL GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TERNAK

0543 SULANDARI, S. [Microsatellite evaluation from pig genomic DNA library]. Evaluasi mikrosatelit dari pustaka genom ternak babi/Sulandari, S. (Balai Penelitian dan Pengembangan Zoologi-LIPI, Bogor (Indonesia)); Muladno. *Media Peternakan* (Indonesia) ISSN 0126-0472 (1999) v. 22(2) p. 65-68 2 ill., 1 table; 7 ref. Summary (En)

SWINE; MICROSATELLITES; DNA; GENOMES.

L20 ANIMAL ECOLOGY / EKOLOGI HEWAN DARAT

0544 HEIJ, C.J. The behaviour of the Moluccan megapode, *Eulipoa wallacei* (Aves: Megapodidae) in nesting grounds/Heij, C.J. *Treubia* (Indonesia): *A Journal on Zoology of the Indo-Australian Archipelago* ISSN 0082-6340 (1997) v. 31(2) p. 169-176 5 ill., 6 ref. Summary (En)

GALLIFORMES; BEHAVIOUR; NESTING; EGGS; PRODUCTIVITY; HATCHING; EGG CHARACTERS; OVIPOSITION; TRADITIONAL TECHNOLOGY; MALUKU.

L52 ANIMAL PHYSIOLOGY - GROWTH AND DEVELOPMENT / FISILOGI TERNAK - PERTUMBUHAN DAN PERKEMBANGAN

0545 TATIT S. [Body weight increasing capability of calves FH with wearing age in Tanjungsari-Sumedang, West Java, Indonesia]. Kemampuan peningkatan berat badan sapi pedet

jantan FH sampai dengan umur sapih di Tanjungsari-Kabupaten Sumedang/Tatit S.; Wina, E.; Tangenjaya, B.; Mathius, I.W. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 709-714 2 tables; 3 ref. Summary (In)

CALVES; INTENSIVE FARMING; BODY WEIGHT; ECONOMIC ANALYSIS.

L53 ANIMAL PHYSIOLOGY - REPRODUCTION / FISILOGI TERNAK-REPRODUKSI

0546 SUNARLIM, R. [Evaluation of goat and sheep meat qualities in Bandung and Jakarta (Indonesia)]. Evaluasi mutu daging domba dan kambing di Bandung dan DKI Jakarta/Sunarlim, R.; Setiyanto, H. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 869-874 2 tables; 2 ref. Summary (In)

GOATS; SHEEP; MEAT; QUALITY; ORGANOLEPTIC PROPERTIES; CHEMICAL PROPERTIES; JAVA.

L60 ANIMAL TAXONOMY AND GEOGRAPHY / TAKSONOMI HEWAN DAN SEBARAN GEOGRAFINYA

0547 MAHARADATUNKAMSI. Morphological variation in *Eonycteris spelaea* (Chiroptera: Pteropodidae) from the Greater and Lesser Sundas islands, Indonesia and description of a new subspecies/Maharadatunkamsi (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); Kitchener, D.J. *Treubia: A Journal on Zoology of the Indo-Australian Archipelago*

(Indonesia) ISSN 0082-6340 (1997) v. 31(2) p. 133-168 15 ill., 8 tables; 15 ref. Summary (En)

CHIROPTERA; ANIMAL MORPHOLOGY; BODY MEASUREMENTS; NEW SPECIES; POPULATION DISTRIBUTION; JAVA; SUMATRA; SULAWESI; KALIMANTAN; PHILIPPINES.

0548 MARYANTO, I. Morphological variation in the Ebony and Silver leaf Monkeys [*Trachypithecus auratus* (E. Geoffroy, 1812) and *Trachypithecus cristatus* (Raffles, 1812)] from Southeast Asia/Maryanto, I. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); Mansjoer, I.; Sajuthi, D.; Supriatna, J. *Treubia: A Journal on Zoology of the Indo-Australian Archipelago* (Indonesia) ISSN 0082-6340 (1997) v. 31(2) p. 113-131 10 ill., 5 tables; 22 ref. Summary (En)

MONKEYS; SUBSPECIES; BODY MEASUREMENTS; ANIMAL MORPHOLOGY; POPULATION DISTRIBUTION; JAVA; KALIMANTAN; SUMATRA; MALAYSIA; THAILAND.

0549 MULYADI. Taxonomy and distribution of the family Candaciidae in Indonesian coastal waters/Mulyadi (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). *Treubia: A Journal on Zoology of the Indo-Australian Archipelago* (Indonesia) ISSN 0082-6340 (1997) v. 31(2) p. 65-112 16 ill., Bibl. p. 110-112. Summary (En)

PLANKTON; COPEPODA; GENERA; NEW SPECIES; ANIMAL MORPHOLOGY; TAXONOMY; POPULATION DISTRIBUTION; COASTAL WATERS; INDONESIA.

L70 VETERINARY SCIENCE AND HYGIENE - GENERAL ASPECTS / ILMU VETERINER DAN KESEHATAN HEWAN - ASPEK UMUM

0550 ADIKARA, R.T.S. [Research of acupuncture on experimental animal]. Penelitian acupuncture pada hewan coba/Adikara, R.S.T.; Rachmawati, N.; Hendarto, T.; Wardan, R.; Maryanto; Rosyida, L. [Research Result Report

of Animal Husbandry and Food Crops]. Risalah Hasil Penelitian Peternakan dan Tanaman Pangan/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Denpasar (Indonesia). Denpasar (Indonesia): IPPTP, 1997 p. 16-20 10 ref.

LABORATORY ANIMALS; ACU-PUNCTURE; RESEARCH.

0551 HERMADI, H.A. [Health of beef cattle]. Kesehatan pada sapi potong/Hermadi, H.A. (Universitas Airlangga, Surabaya (Indonesia). Fakultas Kedokteran Hewan). [Research Result Report of Animal Husbandry and Food Crops]. Risalah Hasil Penelitian Peternakan dan Tanaman Pangan/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Denpasar (Indonesia). Denpasar (Indonesia): IPPTP, 1997 p. 30-40 1 ill.

ANIMAL HEALTH; DISEASE CONTROL; VACCINATION; BEEF CATTLE.

0552 MAYUNAR. [Pest and disease on milk fish culture]. Hama penyakit ikan bandeng/Mayunar; Ateng S.; Bekti, E. [Monograph on biology and milk fish culture]. Monograf biologi dan budidaya bandeng/Bachrein, S.; Rochjat D., M.; Subarna, T. (eds.). Balai Pengkajian Teknologi Pertanian, Lembang (Indonesia). Lembang (Indonesia): BPTP, 2000 p. 36-37. *Monograf Berseri Balai Pengkajian Teknologi Pertanian Lembang* (2000) (no. 2) 4 ref.

CHANOS; DISEASE CONTROL; FISH DISEASES; PEST CONTROL.

L73 ANIMAL DISEASES / PENYAKIT TERNAK

0553 SUPAR. [Hog cholera disease control using modified PESTIFFA: field study on pig farming in Tangerang, West Java (Indonesia)]. Pengendalian penyakit Hog cholera dengan vaksin aktif galur china (Pestiffa) yang dimodifikasi: suatu studi lapang pada peternakan babi di Tangerang, Jawa Barat/Supar (Balai Penelitian Veteriner Bogor, (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19

November 1997; Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 1003-1008 3 ill.; 6 ref. Summary (In)

SWINE; DISEASE CONTROL; CHOLERA; VIRUSES; VACCINES; JAVA.

0554 TENAYA, I W.M. [Production of C12 and M96 antibodies monoclonal for *Serpulina pilosicoli* spirochaeta pathogen detection in animal and human]. Produksi monoclonal antibodi C12 dan M96 untuk mendeteksi *Serpulina pilosicoli* spirochaeta patogen pada hewan dan manusia/Tenaya, I W.M. (Balai Penyidikan Penyakit Hewan Wilayah VI Denpasar, Bali (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997; Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997; Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 995-1001 1 ill.; 1 table; 18 ref. Summary (In)

SERPULINA; SPIROCHAETALES; MONOCLONAL ANTIBODIES; ANIMALS; HUMAN DISEASES.

M01 FISHERIES AND AQUACULTURE - GENERAL ASPECTS / PERIKANAN DAN BUDIDAYA PERAIRAN - ASPEK UMUM

0555 DAHURI, R. [Prospects of fisheries ocean business in Indonesia]. Prospek bisnis perikanan dan kelautan di Indonesia/Dahuri, R. (Departemen Eksplorasi Laut dan Perikanan, Jakarta (Indonesia)). *Agrimedia* (Indonesia) ISSN 0853-8468 (2000) v. 6(1) p. 26-29 1 table; 6 ref.

INDONESIA; FISHERY RESOURCES; FISHERY OCEANOGRAPHY; CHEMICAL OCEANOGRAPHY; PHYSICAL OCEANOGRAPHY.

0556 SUKMADINATA, T. [Potency of fish agribusiness in Indonesia]. Potensi agribisnis perikanan di Indonesia/Sukmadinata, T. (Badan

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INDONESIA; FISH CULTURE; AGRO-INDUSTRIAL SECTOR; FISHING VESSELS.

M11 FISHERIES PRODUCTION / PRODUKSI PERIKANAN

0557 DARMAWAN. [Biology of milk fish]. Biologi/Darmawan; Muchari. [Monograph on biology and milk fish culture]. Monograf biologi dan budidaya bandeng/Bachrein, S.; Rochjat D., M.; Subarna, T.; Mindarti, S. (eds.). Balai Pengkajian Teknologi Pertanian, Lembang (Indonesia). Lembang (Indonesia): BPTP, 2000 p. 4-8. *Monograf Berseri Balai Pengkajian Teknologi Pertanian Lembang* (Indonesia) (2000) (no. 2) 1 ill., 4 ref.

CHANOS; FISH LARVAE; REPRODUCTION; LIFE CYCLE; ANIMAL MORPHOLOGY; FEEDING HABITS.

0558 MANURUNG, V.T. [Development of fishery agribusiness in increasing of fishermen income and export]. Pengembangan agribisnis perikanan dalam upaya peningkatan pendapatan nelayan dan ekspor/Manurung, V.T. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 2]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 2/ Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 538-548 9 tables

INDONESIA; FISHERIES; AGROINDUSTRIAL SECTOR; PRODUCTION INCREASE; FARM INCOME; EXPORTS; FISHERMEN.

0559 MINTORO, A. [Performance of marine fishing methods]. Keragaan beberapa pola usaha penangkapan ikan di laut/Mintoro, A. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 2]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 2/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.;

Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 620-631

INDONESIA; FISHING METHODS; SEA WATER; ARTISANAL FISHERIES; DATA ANALYSIS; MARKETING.

M12 AQUACULTURE PRODUCTION AND MANAGEMENT / PRODUKSI DAN PENGELOLAAN BUDIDAYA PERAIRAN

0560 ARIFIN, I.Z. [The Potency of Indonesia as main producer of world seaweeds]. Indonesia potensial sebagai penghasil utama rumput laut dunia/Arifin, I.Z. (Badan Agribisnis, Jakarta (Indonesia)). *Info Agribisnis* (Indonesia) ISSN 1410-0436 (Feb 1998) v. 4(4) p. 17-19

INDONESIA; SEAWEEDES; AGRICULTURAL DEVELOPMENT.

0561 MAYUNAR. [Milk fish rearing]. Pembesaran ikan bandeng/Mayunar; Darmawan; Bekti, E. [Monograph on biology and milk fish culture]. Monograf biologi dan budidaya bandeng/Bachrein, S.; Rochjat D., M.; Subarna, T. (eds.). Balai Pengkajian Teknologi Pertanian, Lembang (Indonesia). Lembang (Indonesia): BPTP, 2000 p. 18-35. *Monograf Berseri Balai Pengkajian Teknologi Pertanian Lembang* (Indonesia) (2000) (no. 2) 8 ill., 10 tables; 4 ref.

CHANOS; SITE FACTORS; IRRIGATION; TILLAGE; FERTILIZERS; LARVAE; FEEDS; WATER QUALITY; HARVESTING; MIGRATION; COST ANALYSIS.

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CHANOS; HATCHERIES; GENITALIA; MATURATION; FISH LARVAE; EQUIPMENT; COST ANALYSIS.

N20 AGRICULTURAL MACHINERY AND EQUIPMENT / MESIN-MESIN DAN PERALATAN PERTANIAN

0563 HASANAH. [Effect of planter utilization in direct seeding rice] . Pengaruh penggunaan alat tanam pada sistim tabela/Hasanah; Barus, J. (Loka Pengkajian Teknologi Pertanian, Natar, Lampung (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing) System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (eds.). Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 287-288 1 table; 6 ref. Summary (En)

ORYZA SATIVA; DIRECT SOWING; PLANTING EQUIPMENT; USES; GROWTH; YIELD COMPONENTS.

0564 HENDRAWAN, I. [Design of generator system parameter to conditioning of greenhouse on agricultural production increase]. Merancang bangun sistem generator parameter untuk pengkondisian rumah kaca dalam usaha produksi pertanian/Hendarawan, I.; Sunoadji; Sukmadi, I. (Institut Teknologi Indonesia (Indonesia). Fakultas Teknologi Pertanian). [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.). Yogyakarta (Indonesia): UGM, 1999 p. 99-110 Summary (In). Appendices

CROPS; GREENHOUSES; ENERGY GENERATION; CONSTRUCTION; ELECTRICITY.

P01 NATURE CONSERVATION AND LAND RESOURCES / KONSERVASI SUMBER DAYA ALAM DAN SUMBER DAYA LAHAN

0565 HARIJOGJO. [Land resources as information for supporting development of conservation farming system on critical hill areas at Daerah Istimewa Yogyakarta (Indonesia)]. Sumberdaya tanah sebagai informasi dalam menunjang pengembangan usaha tani konservasi di kawasan perbukitan kritis D.I. Yogyakarta/Harijogjo; Subardja, D.; Subagio, H.; Karama, A.S. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 53-57 3 tables; 6 ref. Summary (In)

JAVA; LAND RESOURCES; HIGHLANDS; MARGINAL LAND; CARTOGRAPHY; LAND SUITABILITY; CONSERVATION TILLAGE.

0566 NGADIMIN, H. [Information of land resources as basic data for planning areal development and pattern of conservation farming system in Daerah Istimewa Yogyakarta province (Indonesia)]. Informasi sumberdaya lahan sebagai dasar perencanaan pengembangan wilayah dan pola usaha tani konservasi di Propinsi Daerah Istimewa Yogyakarta/Ngadimin, H.; Budiono (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 79-92 18 ref. Appendices. Summary (In)

JAVA; LAND RESOURCES; WATERSHEDS; SOIL CLASSIFICATION; LAND CLASSIFICATION; DEVELOPMENT POLICIES; CARTOGRAPHY.

0567 NURMANAF, A.R. [Summary and research direction of economic resources and environment]. Rangkuman dan arah penelitian ekonomi sumber daya dan lingkungan/Nurmanaf, A.R. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 119-134 Bibl.: p. 126-134

INDONESIA; ECONOMIC RESOURCES; AGRICULTURAL SECTOR; ENVIRONMENT

0568 PRASETYO, B. [Institutional perspective of conservation farming system, an institutional review: a case of UACP/P2LK2T project]. Perspektif pelebagaan sistem usahatani konservasi suatu kajian kelembagaan: kasus proyek UACP/P2LK2T/Prasetyo, B.; Muslim, C. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 291-295 2 tables; 5 ref. Summary (In

AGRICULTURAL DEVELOPMENT; LAND MANAGEMENT; FARMING SYSTEMS; DEVELOPMENT AGENCIES.

P06 RENEWABLE ENERGY RESOURCES / SUMBER DAYA ENERGI YANG DAPAT DIPERBAHARUI

0569 RACHIMOELLAH. [Utilization of peat soils as raw materials for chemical industry]. Gambut sebagai bahan baku industri kimia/Rachimoellah (Institut Teknologi Sepuluh Nopember Surabaya (Indonesia). Fakultas Teknologi Industri). [Proceedings of the Seminar and Workshop on National Peat Soil

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SUMATRA; PEAT SOILS; USES; RAW MATERIALS; CHEMICAL INDUSTRY.

0570 SJAFFRIADI. [Utilization of peat soil energy to increase environmental quality]. Energi gambut: upaya peningkatan mutu lingkungan/Sjaffriadi. [Proceedings of the Seminar and Workshop on National Peat Soil "Optimalization of Peat Soils Utilization as Material and Farm Land"]. Prosiding Seminar dan Lokakarya Gambut Nasional "Optimalisasi Pemanfaatan Gambut sebagai Bahan dan Lahan"/Ridlo, R.; Hasnedi; Sumotarto, U. (eds.). Badan Perencanaan dan Pengembangan Daerah Riau, Pekanbaru (Indonesia). Pekanbaru (Indonesia): BAPPEDA Tk. I, 1997 p. 1-5

SUMATRA; PEAT SOILS; ENVIRONMENT; QUALITY; USES.

P10 WATER RESOURCES AND MANAGEMENT / SUMBER DAYA AIR DAN PENGELOLAANNYA

0571 SAYAKA, B. [New era for water resources management in Indonesia]. Menuju era baru pengelolaan sumber daya air di Indonesia/Sayaka, B.; Pasandaran, E. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 72-81 1 table

INDONESIA; WATER RESOURCES; WATER MANAGEMENT; USES.

P32 SOIL CLASSIFICATION AND GENESIS / KLASIFIKASI DAN PEMBENTUKAN TANAH

0572 SOEKARDI, M. [Research on dynamics of land characteristic and ecosystem of plants on conservation farming system, YUADP Yogyakarta (Indonesia)]. Penelitian dinamika karakterisasi tanah dan ekosistem tanaman pada sistem usaha tani konservasi, YUADP Yogyakarta/Soekardi, M.; Idjudin, A.A.; Mulyani, A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)); Narni, R.S. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 59-70 8 tables; 7 ref. Summary (In)

JAVA; AGROCLIMATIC ZONES; SOIL CHEMICOPHYSICAL PROPERTIES; PLANT COMMUNITIES; GNETUM GNEMON; INDICATOR PLANTS; DROUGHT RESISTANCE; GROWTH; CONSERVATION TILLAGE.

P33 SOIL CHEMISTRY AND PHYSICS / KIMIA DAN FISIKA TANAH

0573 DRADJAD, M. [Pushing and control of peat soil holding capacity used for intensive agriculture with environmental oriented in tidal swamp area]. Memacu dan mengendalikan daya dukung lahan gambut untuk pertanian intensif yang berwawasan lingkungan di daerah pasang surut/Dradjad, M. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar and Workshop on National Peat Soil "Optimalization of Peat Soils Utilization as Material and Farm Land"]. Prosiding Seminar dan Lokakarya Gambut Nasional "Optimalisasi Pemanfaatan Gambut sebagai Bahan dan Lahan"/Ridlo, R.; Hasnedi; Sumotarto, U. (eds.). Badan Perencanaan dan Pengembangan Daerah Riau, Pekanbaru (Indonesia). Pekanbaru (Indonesia): BAPPEDA Tk.I, 1997 p. 39-68 6 tables; 8 ref.

INDONESIA; PEAT SOILS; SOIL ANALYSIS; SOIL CHEMICOPHYSICAL PROPERTIES; WATER HOLDING CAPACITY; AGRICULTURAL SECTOR.

0574 SAPEI, A. [Compact and strength characteristics of latosol and podzol soils on the change of water content]. Sifat kepadatan dan kekuatan tanah latosol dan podsolik merah kuning pada perubahan kadar air/Sapei, A.; Sembiring, E.N.; Pramuhadi, G. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.). Yogyakarta (Indonesia): UGM, 1999 p. 155-164 6 ill., 2 tables; 8 ref. Summary (In)

JAVA; FERRALSOLS; PODZOLS; SOIL CHEMICOPHYSICAL PROPERTIES; MOISTURE CONTENT.

0575 YUSUF, A. Characterization of Teunom and Krueng Sabee Peat Land, West Aceh. Karakterisasi lahan gambut Teunom dan Krueng Sabee Aceh Barat/Yusuf, A.; Yardha (Loka Pengkajian Teknologi Pertanian, Banda Aceh (Indonesia)); Karim, A.; Darusman. *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 35-42 2 tables; 7 ref. Summary (En)

FOOD CROPS; PEATLAND; LAND USE; FARMING SYSTEMS; SOIL CHEMICOPHYSICAL PROPERTIES; TECHNOLOGY TRANSFER; SUMATRA.

P34 SOIL BIOLOGY / BIOLOGI TANAH

0576 HIFNALISA. Phosphate-solubilizing capabilities of selected microorganisms from soils. Kemampuan melarutkan fosfat dari beberapa mikroorganisme asal tanah/Hifnalisa (Universitas Syiah Kuala, Darussalam, Banda Aceh (Indonesia). Fakultas Pertanian). *Agrista* (Indonesia) ISSN 1410-3389 (1999) v. 3(1) p. 25-29 1 table; 14 ref. Summary (En)

CROPS; SOIL MICROORGANISMS; SOLUBILIZING; PHOSPHORUS; MICROBIOLOGICAL ANALYSIS; PH.

0577 SOENARTININGSIH. [Effectivity of Vesicular-Arbuscular Mycorrhizae (VAM) fungus on some isolates and spore number differences on the growth of maize]. Efektivitas cendawan Mikoriza Vesikular Arbuskular (MVA) pada beberapa isolat dan perbedaan jumlah spora terhadap pertumbuhan tanaman jagung/Soenartiningasih; Rauf, M.; Buntan, A. *Risalah Penelitian Jagung dan Serealia Lain* (Indonesia) ISSN 1410-8259 (1999) v. 3 p. 35-44 4 ill., 3 tables; 20 ref. Summary (En)

ZEA MAYS; VESICULAR ARBUSCULAR MYCORRHIZAE; SPORES; GREENHOUSES; GROWTH; FERTILIZER APPLICATION; NUTRIENT UPTAKE; PHOSPHORUS.

P35 SOIL FERTILITY / KESUBURAN TANAH

0578 HIDAYAT, M.S. [Management of peat soil fertility for modern agriculture using surjan system in Kempas Jaya, Riau (Indonesia)]. Pengelolaan kesuburan tanah gambut untuk pertanian modern dengan sistem surjan di daerah Kempas Jaya Tempuling, Indragiri Hilir, Riau/Hidayat, M.S. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar and Workshop on National Peat Soil "Optimalization of Peat Soils Utilization as Material and Farm Land"]. Prosiding Seminar dan Lokakarya Gambut Nasional "Optimalisasi Pemanfaatan Gambut sebagai Bahan dan Lahan"/Ridlo, R.; Hasnedi; Sumotarto, U. (eds.). Badan Perencanaan dan Pengembangan Daerah Riau, Pekanbaru (Indonesia). Pekanbaru (Indonesia): BAPPEDA Tk.I, 1997 p. 143-155 5 tables; 6 ref.

SUMATRA; PEAT SOILS; SOIL FERTILITY; SWAMPS; SOIL CHEMICOPHYSICAL PROPERTIES; PH.

P36 SOIL EROSION, CONSERVATION AND RECLAMATION / EROSI, PELESTARIAN DAN PERBAIKAN TANAH

0579 NARNI, R.S. [Inventory and delineation of critical land and its relation with under development villages at Kulonprogo resident, Daerah Istimewa Yogyakarta province (Indonesia)]. Inventarisasi dan deliniasi lahan kritis serta hubungannya dengan desa tertinggal di Kabupaten Kulonprogo Propinsi Daerah Istimewa Yogyakarta/Narni, R.S. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)); Idjudin, A.A.; Maswar; Ngadimin, H. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 71-77 2 tables; 5 ref. Summary (In)

JAVA; SOIL CLASSIFICATION; RURAL CONDITIONS; MARGINAL LAND; CARTOGRAPHY.

0580 PAKPAHAN, A. [Soil and water conservation relationship with cultivated crops, income structure and household characteristics]. Hubungan konservasi tanah dan air dengan komoditas yang diusahakan, struktur pendapatan serta karakteristik rumah tangga/Pakpahan, A.; Syafa'at, N. [Dynamics of Socio Economic Inovation and Agriculture Institutions; Book 1]. Dinamika Inovasi Sosial Ekonomi dan Kelembagaan Pertanian; Buku 1/Rusastra, I W.; Nurmanaf, A.R.; Hutabarat, B.; Yusdja, Y.; Pranadji, T.; Suradisastra, K. (eds.). Bogor (Indonesia): PSE, 1999 p. 42-55

JAVA; SOIL CONSERVATION; WATER CONSERVATION; AGRICULTURAL PRODUCTS; HOUSEHOLDS; INCOME.

0581 SULISTYO, B. [Determination of prime area for land conservation of "Kubah Sangiran" hills using aerial photography data]. Pemilihan lokasi prioritas konservasi lahan daerah perbukitan Kubah Sangiran dengan bantuan data foto udara/Sulistyo, B. (Universitas Bengkulu (Indonesia)). *Majalah Geografi Indonesia*

(Indonesia) ISSN 0125-1790 (1999) v. 13(2) p. 129-139 1 table; 6 ref. Summary (In)

JAVA; SOIL CONSERVATION; EROSION CONTROL; RECLAMATION; AERIAL SURVEYING; PHOTOGRAPHY.

0582 WAHID, P. [Land and water conservation technology base on agrobusiness orientation on several types of agroecosystems]. Teknologi konservasi lahan dan air berwawasan agribisnis untuk berbagai tipe agroekosistem/Wahid, P. (Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia)); Surmaini, E. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 11-20 3 ill., 4 tables; 16 ref. Summary (In)

AGROCLIMATIC ZONES; MARGINAL LAND; LAND MANAGEMENT; WATER CONSERVATION; ALLEY CROPPING; AGROINDUSTRIAL SECTOR.

P40 METEOROLOGY AND CLIMATOLOGY / CUACA DAN IKLIM

0583 HADIUTOMO, K. [Role of weather on agribusiness development in Indonesia]. Peran cuaca dalam pengembangan agribisnis di Indonesia/Hadiutomo, K. (Sekretariat Badan Agribisnis, Jakarta (Indonesia)). *Info Agribisnis* (Indonesia) ISSN 1410-0436 (Feb 1998) v. 4(4) p. 20-22 2 ill.

INDONESIA; AGROINDUSTRIAL SECTOR; WEATHER; WEATHER FORECASTING.

0584 HARTINIADI I., S. [Status of Virginia Tobacco and castor in Lombok, West Nusa Tenggara (Indonesia)]. Status komoditas Tembakau Virginia dan jarak di Lombok, Nusa Tenggara Barat/Hartiniadi I., S.; Soenardi;

Machfudz (Balai Penelitian Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri* (Indonesia) ISSN 0853-8204 (1998) v. 4(1-2) p. 4-5

TOBACCO; RICINUS COMMUNIS; PRODUCTION DATA; CLIMATIC FACTORS; NUSA TENGGARA.

Q01 FOOD SCIENCE AND TECHNOLOGY / ILMU-ILMU DAN TEKNOLOGI MAKANAN

0585 ISMAYADI, C. [Improvement of special Arabica Coffee quality in Gayo highland, Aceh (Indonesia)]. Upaya perbaikan mutu Kopi Arabika spesial di dataran tinggi Gayo, Aceh/Ismayadi, C. *Warta Pusat Penelitian Kopi dan Kakao* (Indonesia) ISSN 0215-1308 (1998) v. 14(1) p. 45-53 1 table; 4 ref. Appendix

ARABICA COFFEE; PROCESSING; QUALITY; HIGHLANDS.

0586 SUPARMO. [Socioculture factors on food technology application to develop traditional food]. Faktor sosial budaya untuk pertimbangan penerapan teknologi pangan dalam pengembangan makanan tradisional/Suparmo (Universitas Gadjah Mada, Yogyakarta (Indonesia). Pusat Kajian Makanan Tradisional). *Agritech: Majalah Ilmu dan Teknologi Pertanian* (Indonesia) ISSN 0216-0455 (1998) v. 8(3) p. 1-7 3 ref.

FOODS; FOOD TECHNOLOGY; SOCIOCULTURAL ENVIRONMENT; DIET; FOOD SECURITY; INDONESIA.

0587 WIRAKUSUMAH, E.S. [Fruit and vegetable juice as an alternative for soft drink substitution]. Juice buah dan sayur suatu alternatif pengganti soft drink/Wirakusumah, E.S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). *Info Agribisnis* (Indonesia) ISSN 0853-1510 (1995) v. 3(2) p. 33-37

FRUIT JUICES; VEGETABLE JUICES; SOFT DRINK; SIMULATED FOODS.

Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN MAKANAN

0588 HANAFAI, H. [Food technology of processing snack food from *Gnetum gnemon* with semi mechanics machinery for supporting agroindustry at critical hill areas]. Teknologi pengolahan emping melinjo semi mekanis dalam menunjang agroindustri di daerah perbukitan kritis/Hanafai, H. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)); Masbulan, E.; Soelaeman, Y. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 273-279 1 ill., 1 table; 7 ref.

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