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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, 2001

Kepala Pusat Perpustakaan dan
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COCONUTS; FARMING SYSTEMS; CATCH CROPS; TECHNOLOGY TRANSFER; INNOVATION ADOPTION.

D50 LEGISLATION / HUKUM DAN PERATURAN PERUNDANG-UNDANGAN

0302 ABIDIN, Z. [Investment policy for developing national enterprises on agrobusiness/agroindustry sector]. Kebijakan investasi untuk mengembangkan usaha nasional di bidang agrobisnis/agroindustri/Abidin, Z. (Badan Koordinasi Penanaman Modal, Jakarta (Indonesia)). [National seminar on prospect of enterprises in agrobusiness/agroindustrial sector to anticipate globalization era]. Seminar nasional prospek usaha di bidang agribisnis/agroindustri dalam mengantisipasi era globalisasi/Sekolah Tinggi Manajemen Industri; Lembaga Pengkajian Pemanfaatan Sumber Daya Alam. Jakarta (Indonesia): PSIML-STMI Depperindag, 1998 pt.3 : 10 p.

INDONESIA; LEGISLATION; AGRO-INDUSTRIAL SECTOR; INVESTMENT; INVESTMENT POLICIES.

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

0303 DAMANIK, S. [Benefit analysis on coconut farming systems: a case study in South Lampung (Indonesia)]. Analisis keuntungan pada pola usaha tani kelapa: studi kasus di Lampung Selatan/Damanik, S.; Mamat H.S. (Loka Penelitian Pola Tanam Kelapa Pakuwon, Sukabumi (Indonesia)); Erfa, M. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 445-452 3 tables; 10 ref. Summary (In)

COCONUTS; FARMING SYSTEMS; PRODUCTION FUNCTIONS; PRODUCTION FACTORS; SUMATRA.

0304 DJAUHARI, A. [Function of demand response and projection of plantation production]. Fungsi respon penawaran dan proyeksi produksi hasil-hasil perkebunan/Djauhari, A.; Simatupang, P.; Susilowati, S.H. (Perhimpunan Ekonomi Pertanian, Jakarta (Indonesia)). Agro-Ekonomika (Indonesia) ISSN 0126-1525 (Jul 1999) v. 29(1) p. 73-85 4 tables; 6 ref.

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0305 MAHDI, B. [Relationship between replanting and coconut stem utilization]. Keterkaitan antara peremajaan dengan pemanfaatan batang kelapa/Mahdi, B. (Direktorat Jendral Perkebunan, Jakarta (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 365-382 4 tables; 1 ref. Summary (In). Appendices

COCOS NUCIFERA; USES; REPLANTING; WOOD INDUSTRY; PLANT POPULATION.

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0307 RUMOKOI, M.M.M. [Coconut oil on 21th century: food or oleochemical]. Minyak kelapa abad 21: pangan atau oleokimia/Rumokoi, M.M.M.; Akuba, R.H. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 302-326 1 ill., 12 tables; 29 ref. Summary (In)

COCONUT OIL; INTERNATIONAL TRADE; ECONOMIC COMPETITION; FATTY ACIDS; FOODS; HEALTH; CONSUMPTION; CHEMICAL COMPOSITION.

0308 SAPUAN. [Development of rice price stabilization management in Indonesia, 1969-1998]. Perkembangan manajemen pengendalian harga beras di Indonesia, 1969-1998/Sapuan (Perhimpunan Ekonomi Pertanian, Jakarta (Indonesia)). Agro-Ekonomika (Indonesia) ISSN 0126-1525 (Jul 1999) v. 29(1) p. 19-37 7 tables; 13 ref. Appendix

RICE; PRICES; STABILIZATION; MARKETING CHANNELS; FOOD STOCKS; INDONESIA.

0309 SURYANA, A. Indonesia's key agricultural issues: recent adjustment policies/Suryana, A.; Bahri, S. (Perhimpunan Ekonomi Pertanian, Jakarta (Indonesia)) 5

tables; 9 ref.. Agro-Ekonomika (Indonesia) ISSN 0126-1525 (Jul 1999) v. 29(1) 1-17

INDONESIA; AGRICULTURAL POLICIES; AGRICULTURAL PRODUCTS; ECONOMIC CRISES; PRICES; FOOD SECURITY.

0310 YASIN, A.Z.F. [Socioeconomic aspects of coconuts in Riau Province (Indonesia)]. Aspek sosial ekonomi kelapa di Propinsi Riau/Yasin, A.Z.F. (Universitas Riau, Riau (Indonesia). Fakultas Pertanian). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 421-434 7 tables; 7 ref. Summary (In)

COCONUTS; AGRICULTURAL ECONOMICS; SOCIOECONOMIC ENVIRONMENT; EXPORTS; INCOME; PRICES; SUMATRA.

E11 LAND ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN NASIONAL MENGENAI LAHAN

0311 KARMAWATI, E. [Assessment of coconut farming system development]. Pengkajian pengembangan usaha tani kelapa/Karmawati, E.; Effendi, D.S. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 589-594 10 ref. Summary (In)

COCONUTS; FARMING SYSTEMS; LAND EVALUATION; DRY FARMING; PODZOLS; PEAT SOILS.

E14 DEVELOPMENT ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN PEMBANGUNAN

0312 ARIANI, M. [Diversification of food consumption through maize development]. Pengembangan komoditas jagung untuk menunjang diversifikasi konsumsi pangan/

Ariani, M. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian (Indonesia)* ISSN 0126-4427 (1998) v. 20(6) p. 4-5 1 table

MAIZE; FOOD CONSUMPTION; STATISTICAL DATA; DEVELOPMENT POLICIES.

0313 HASYIM, A.I. [Role of coconut on economic society in Lampung (Indonesia)]. *Peranan kelapa dalam perekonomian masyarakat di Lampung/Hasyim, A.I. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 97-109 6 tables; 9 ref. Summary (In)*

COCONUTS; AGRICULTURAL DEVELOPMENT; PLANT PRODUCTION; FARMING SYSTEMS; INCOME; COST BENEFIT ANALYSIS.

0314 PUNCHIHEWA, P.G. [Cooperation of Asia-Pacific coconut producers]. *Kerjasama negara-negara penghasil kelapa Asia dan Pasifik /Punchihewa, P.G. (Asian and Pacific Coconut Community). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 453-461 2 ill., 5 tables; 3 ref. Summary (In)*

COCONUTS; INTERNATIONAL COOPERATION; INTERNATIONAL ORGANIZATIONS; DIFFUSION OF INFORMATION; ASIA; PACIFIC OCEAN.

0315 SULISTYO, R. [Empowerment of farmers on coconut-based farming systems: Partnership to empower coconut farmers]. *Pemberdayaan petani dalam usahatani kelapa: Pola kemitraan (kemitraan skala besar dan kecil) dalam rangka memberdayakan petani kelapa/Sulistyo, R. (Masyarakat Perkelapaan Indonesia, Jakarta (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha*

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COCONUTS; FARMERS; AGRICULTURAL POLICIES; TECHNOLOGY TRANSFER; PROCESSING; FARM EQUIPMENT; DEVELOPMENT AID.

0316 SUMANTO. [Increasing of coconut farmer incomes by catch crops pineapple]. *Upaya meningkatkan pendapatan petani dengan tanaman sela nenas/Sumanto (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia); Sriwulan, I. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 583-588 3 tables; 9 ref. Summary (In)*

COCOS NUCIFERA; ANANAS COMOSUS; INTERCROPPING; FARM INCOME; EXPORTS; COST BENEFIT ANALYSIS.

0317 TONDOK, A.R. [Utilization of coconut development opportunity toward globalization era]. *Pemanfaatan peluang pengembangan kelapa dalam menghadapi era globalisasi/Tondok, A.R. (Direktorat Jendral Perkebunan, Jakarta (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 25-32 2 tables. Summary (In)*

COCOS NUCIFERA; AGRICULTURAL POLICIES; AGRICULTURAL ECONOMICS.

E16 PRODUCTION ECONOMICS / EKONOMI PRODUKSI

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ORYZA SATIVA; PLANTING; DRY SEASON.

0319 SULISTYADI, K. Aggregate production planning of grade-1 black tea/Sulistyadi, K. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). Indonesian Journal of Tropical Agriculture (Indonesia) ISSN 0852-5927 (1996) 7(2) p. 67-72 2 ill., 12 tables; 4 ref. Summary (En)

TEA; GRADING; PRODUCTION POSSIBILITIES; DEMAND; FORECASTING; STATISTICAL METHODS; SUPPLY BALANCE.

0320 SUPRAPTO, A. [Prospect of coconut agribusiness development toward globalization era]. Prospek pengembangan agribisnis kelapa dalam era globalisasi/Suprpto, A. (Departemen Pertanian, Jakarta (Indonesia). Badan Agribisnis). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 77-95 12 tables; 9 ref. Summary (In)

COCONUTS; AGRICULTURAL POLICIES; AGROINDUSTRIAL SECTOR; PRODUCTION DATA; PRODUCTION POSSIBILITIES; PRICES; FOREIGN TRADE; INVESTMENT.

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

0321 ADIYOGA, W. Farmer's strategy in managing risk on hot pepper farming. Strategi petani dalam pengelolaan resiko pada usaha tani cabai/Adiyoga, W.; Soetiarso, T.A. (Balai Penelitian Tanaman Sayuran, Lembang

(Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1299-1311 6 tables; 18 ref. Summaries (En, In)

CAPSICUM; FARM MANAGEMENT; RISK; SEQUENTIAL CROPPING; TECHNOLOGY TRANSFER.

0322 AKHADIARTO, S. [Integrated animal farming system in East Indonesia case study, Kapet Bima, West Nusa Tenggara, Indonesia]. Model usahatani peternakan terpadu di kawasan Timur Indonesia studi kasus Kapet Bima, Nusa Tenggara Barat/Akhadiarto, S. (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 202-212 5 tables; 6 ref. Summary (In)

ANIMAL HUSBANDRY; FARM MANAGEMENT; FARMING SYSTEMS; FOOD CROPS; SACCHARUM OFFICINARUM; NUSA TENGGARA.

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SULAWESI; MALUKU; IRIAN JAYA; COASTAL FISHERIES; FISHERY MANAGEMENT; TRADITIONAL FISHING; INDIGENOUS KNOWLEDGE; SOCIAL CONSCIOUSNESS.

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JAVA; MARGINAL LAND; FARMING SYSTEMS; CONSERVATION TILLAGE; TECHNOLOGY TRANSFER.

0326 WINARNO. [Challenge and opportunity of ginger development toward free market era]. Tantangan dan peluang pengembangan jahe menghadapi era pasar bebas/Winarno (Direktorat Bina Produksi Hortikultura, Jakarta (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. *Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.)*. Bogor (Indonesia): Balitro, 1997 p. 1-7

GINGER; SUPPLY BALANCE; MARKETING BOARDS; EXPORTS; CONSTRAINTS; INDONESIA.

E21 AGROINDUSTRY / AGROINDUSTRI

0327 ASOSIASI PENELITIAN PERKEBUNAN INDONESIA, BOGOR. [Product diversification on management of rubber plantation industry]. Diversifikasi produk dalam pengolahan industri perkebunan karet/Asosiasi Penelitian Perkebunan Indonesia, Bogor (Indonesia). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 7) 22 p. 4 tables

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0328 DILLON, H.S. [Strategy of national agribusiness development base on comparative and competitive]. Strategi pengembangan agribisnis nasional: berlandaskan keunggulan komparatif dan kompetitif/Dillon, H.S.; Iqbal, M.A. (Centre for Agricultural Policy Studies, Jakarta (Indonesia)). [National seminar on prospect of enterprises in agrobusiness/agroindustrial sector to anticipate globalization era]. Seminar nasional prospek usaha di bidang agribisnis/agroindustri dalam mengantisipasi era globalisasi/Sekolah Tinggi Manajemen Industri; Lembaga Pengkajian Pemanfaatan Sumber Daya Alam. Jakarta (Indonesia): PSIML-STMI Depperindag, 1998 pt.1 : 24 p.

INDONESIA; AGRICULTURAL SECTOR; AGROINDUSTRIAL SECTOR; ECONOMIC DEPRESSION; ECONOMIC GROWTH; MARKET RESEARCH; DEVELOPMENT POLICIES.

0329 DIREKTORAT JENDERAL TANAMAN PANGAN DAN HORTIKULTURA. [Development policy and strategy of food crops and horticultural agribusiness]. Kebijakan dan strategi pengembangan usaha di bidang agribisnis tanaman pangan dan hortikultura/Direktorat Jenderal Tanaman Pangan dan Hortikultura. [National seminar on prospect of enterprises in agrobusiness/agroindustrial sector to anticipate globalization era]. Seminar nasional prospek usaha di bidang agribisnis/agroindustri dalam mengantisipasi era globalisasi/Sekolah Tinggi Manajemen Industri; Lembaga Pengkajian Pemanfaatan Sumber Daya Alam. Jakarta (Indonesia): PSIML-STMI Depperindag, 1998 pt.4 : 15 p. 1 table

FOOD CROPS; HORTICULTURE; AGROINDUSTRIAL SECTOR; DEVELOPMENT POLICIES; TRADE.

0330 FACHRY, H. [Development of hybrid coconut planting by Pir-Trans (Nucleous Estate Smallholder) systems on peat land]. Pengembangan kelapa hibrida pola Pir-Trans di lahan gambut/Fachry, H. (P.T. Sambu Group,

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COCOS NUCIFERA; HYBRIDS; DEVELOPMENT PROJECTS; PLANTATIONS; PARTNERSHIPS; EXTENSION ACTIVITIES; GOVERNMENT.

0331 HERMANIANTO, J. [Feasibility study and establishment of parthnerships with private enterprises for pilot project of extrusion industries from rice milling by products (broken rice and rice bran)]. Studi kelayakan dan pembinaan kerjasama dengan swasta untuk proyek percobaan industri ekstrusi dari hasil samping penggilingan padi (Menir dan Bekatul)/Hermanianto, J.; Hariyadi, P.; Sarma, M.; Nurtama, B.; Widowati, S.; Sukarno, L. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian). Bogor (Indonesia): Lembaga Penelitian-Institut Pertanian Bogor, 1998/1999 157 p. 27 ill. 27 tables; Bibl. p. 87-90; Appendices

RICE; MILLING BYPRODUCTS; FEASIBILITY STUDIES; PILOT PROJECTS; EXTRUSION; CHEMICOPHYSICAL PROPERTIES; ORGANOLEPTIC PROPERTIES; KEEPING QUALITY; LABOUR ALLOCATION; FINANCING; LEGISLATION.

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COCOS NUCIFERA; FARMING SYSTEMS; AGRICULTURAL DEVELOPMENT; DIVERSIFICATION; PRODUCTION DATA; PRODUCTION POSSIBILITIES; RESOURCE MANAGEMENT; WASTE UTILIZATION.

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0337 MANURUNG, E.G.T. [Effect of export prohibition of tropical log on Indonesian forestry sector]. Efek larangan ekspor kayu bulat tropis pada sektor kehutanan Indonesia/Manurung, E.G.T. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). Jurnal Teknologi Hasil Hutan (Indonesia) ISSN 0215-3351 (1997) v. 10(1) p. 50-51 Summary (In)

LOGS; EXPORT CONTROL; INDONESIA.

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0340 RACHMAN, A. [Policy and strategy development of oil palm agrobusiness in Indonesia]. Kebijakan dan strategi pengembangan agribisnis kelapa sawit di Indonesia/Rachman, A.; Subroto, B. (Perhimpunan Ekonomi Pertanian, Jakarta (Indonesia)). Agro-Ekonomika (Indonesia) ISSN 0126-1525 (Jul 1999) v 29 (1) p. 39-59

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0341 SAID, E.G. [Comparative and competitive superior on agribusiness toward 21st century]. Keunggulan komparatif dan kompetitif agribisnis dalam memasuki abad-21/Said, E.G. (Institut Pertanian Bogor (Indonesia). Program MMA). [National seminar on prospect of enterprises in agrobusiness/agroindustrial sector to anticipate globalization era]. Seminar nasional prospek usaha di bidang agribisnis/agroindustri dalam mengantisipasi era globalisasi/Sekolah Tinggi Manajemen Industri; Lembaga Pengkajian Pemanfaatan Sumber Daya Alam. Jakarta (Indonesia): PSIML-STMI Depperindag, 1998 pt.2 : 14 p. 4 tables; 6 ref.

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PLANT PRODUCTS; PLANTATIONS; PROCESSING; DIVERSIFICATION; BY-PRODUCTS; AGROINDUSTRIAL SECTOR; DEVELOPMENT POLICIES.

0343 UMPET, J. [Institutionalizing of coconut economic for farmers]. Kelembagaan ekonomi kelapa yang menguntungkan petani/Umpet, J. (KTNA, Sulawesi Utara (Indonesia)); Torar, D.J.. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 498-506 5 ref. Summary (In)

COCONUTS; LAND RESOURCES; HUMAN RESOURCES; COOPERATIVE FARMING; FARMERS ASSOCIATIONS.

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

0344 ASMARANTAKA, M.T. [Marketing of coconut products in Lampung province (Indonesia)]. Tataniaga produk kelapa di Propinsi Lampung/Asmarantaka, M.T. (Dinas Perkebunan Tingkat I Lampung (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 411-420 6 ref. Summary (In).

NUT PRODUCTS; MARKETING CHANNELS; MARKETING TECHNIQUES; EXPORTS; SUMATRA.

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KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 1-7 9 tables; 4 ref.

RICE; PRODUCTION; FERTILIZERS; ECONOMIC DISTRIBUTION; PRICE POLICIES; SUPPLY; EFFICIENCY.

0346 BOUGHTON, T. [Problem of fertilizer quality and policy needed marketer point of view]. Masalah mutu produk pupuk dan kebijakan yang diperlukan -pandangan pemasar/Boughton, T. (Christmas Island Phosphate); Agustono, R.. [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 23-31 1 ill., 1 table; 16 ref. Summary (En)

FERTILIZERS; QUALITY; PRICES; SUPPLY; MARKETING.

0347 HERJANTO, E. [Standardization and quality standard of Indonesian fertilizers]. Standarisasi dan standar mutu produksi pupuk Indonesia/Herjanto, E. (Departemen Perindustrian dan Perdagangan, Jakarta (Indonesia). Pusat Standardisasi). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 8-12 1 table; 4 ref.

FERTILIZERS; STANDARDIZING; QUALITY CONTROLS; PRODUCTION.

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FERTILIZERS; PRODUCTION; QUALITY CONTROLS.

0349 NAINGGOLAN, K. [Soybean market prospect]. Prospek pemasaran kedele/Nainggolan, K. (Perhimpunan Ekonomi Pertanian, Jakarta (Indonesia)). Agro-Ekonomika (Indonesia) ISSN 0126-1525 (Jul 1999) v 29 (1) p. 61-71

SOYBEANS; FOODS; SOYBEAN PRODUCTS; FEEDS; OIL SEEDS; FARM INCOME.

0350 PRIYANTI, A. Estimation of demand and supply relationships for beef cattle in Lampung. Estimasi sistem permintaan dan penawaran daging sapi di Propinsi Lampung/Priyanti, A.; Soedjana, T.D.; Matondang, R.; Sitepu, P. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 71-77 7 tables; 13 ref. Summaries (En, In)

BEEF CATTLE; SUPPLY BALANCE; STATISTICAL DATA; SUPPLY FUNCTIONS; DEMAND FUNCTIONS.

0351 PUPUK SRIWIJAYA (PT), PALEMBANG. [Process of production and quality control of urea fertilizers on connection with national quality standard]. Proses pembuatan dan pengawasan mutu pupuk urea dalam kaitannya dengan standar mutu

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FERTILIZERS; PRODUCTION; ECONOMIC DISTRIBUTION; MARKETING; QUALITY CONTROLS.

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FERTILIZERS; ECONOMIC DISTRIBUTION; QUALITY.

0353 SUYATA. [Market opportunity and diversification of coconut products]. Peluang pasar dan diversifikasi produk kelapa/Suyata (Departemen Perindustrian dan Perdagangan, Jakarta (Indonesia)). Direktorat Jendral Industri Hasil Pertanian dan Kehutanan; Yaman Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 47-56 6 tables. Summary (In)

COCONUTS; MARKET RESEARCH; INDUSTRIAL DEVELOPMENT; RAW MATERIALS; FOREIGN TRADE.

E71 INTERNATIONAL TRADE / PERDAGANGAN INTERNASIONAL

0354 AMRIZAL. [Indonesian dried scraped coconut on international market]. Perdagangan kelapa parut kering Indonesia pada pasar internasional/Amrizal; Djafar, M. (Balai Penelitian Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 507-517 1 ill., 7 tables; 5 ref. Summary (In)

DESICCATED COCONUT; EXPORTS; DEMAND; PRICES.

F01 CROP HUSBANDRY / PERTANAMAN

0355 BALAI PENELITIAN TANAMAN HIAS, JAKARTA. [New varieties of Chrysanthemum, Gladiolus and Rosa]. Ekspose varietas baru tanaman hias, Krisan, Gladiol dan Mawar/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Jakarta (Indonesia): Balithi, 1999 14 p. 16 ill.

CHRYSANTHEMUM; HIGH YIELDING VARIETIES; PLANT BREEDING; DISEASE CONTROL; INDONESIA.

0356 MARCO, S.H. [Development of coconut on peat swamp soil non intertidal land in PT Sac Nusantara (Indonesia)]. Pengembangan kelapa di lahan gambut rawa non pasang surut PT Sac Nusantara/Marco, S.H. (PT. Sac Nusantara, Lampung (Indonesia)); Tampake, H.; Luntungan, H.T.. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 284-292 3 tables; 12 ref. Summary (In)

COCOS NUCIFERA; IRRIGATION SYSTEMS; LAND MANAGEMENT; TISSUE ANALYSIS; LEAVES; YIELDS; PEAT SOILS; SWAMP SOILS; SUMATRA.

0357 MEJAYA, M.J. [The opportunity of sorghum planting for agroindustrial development in dry land]. Peluang tanaman sorgum untuk pengembangan agroindustri di lahan kering/Mejaya, M.J. (Balai Penelitian Tanaman Jagung dan Serealia Lain, Maros (Indonesia)). Caraka Tani (Indonesia) ISSN 0854-3984 (1998) v. 13(2) p. 1-15 4 tables; 10 ref. Summary (In)

SORGHUM BICOLOR; CULTIVATION; SUITABILITY; TAXONOMY; YIELDS; FERTILIZER APPLICATION; MARGINAL LAND; POSTHARVEST TECHNOLOGY; AGROINDUSTRIAL SECTOR.

0358 PUSAT PENELITIAN PERKEBUNAN GULA INDONESIA. [Sugar cane: cultivation, its processing and byproducts]. Tebu: budidaya, pengolahannya menjadi gula serta produk sampingnya/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 8) 7 p. 2 ill., 1 table

SACCHARUM OFFICINARUM; SUGAR CANE; CULTIVATION; SUGAR TECHNOLOGY; SUGAR BYPRODUCTS.

0359 SASTROSUPADI, A. [Product diversification, main product and byproduct processing of kenaf]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping kenaf/Sastrosupadi, A.; Sudjindro; Tirtosuprpto, S.; Purwati, R.D.; Hartati, S.; Wahyunto, W.B.; Darmono; Heliyanto, B. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan/Bogor (Indonesia): Puslitbangtri, 1998 (pt. 16) 23 p. 3 ill., 9 tables

KENAF; CULTIVATION; PROCESSING; LABOUR REQUIREMENTS; POST-HARVEST EQUIPMENT; PROCESSING AIDS; DIVERSIFICATION; TEXTILE INDUSTRY; QUALITY; PULP; COST ANALYSIS.

0360 SUTATER, T. [Coconut husk material as *Chrysanthemum* growing media]. Serbuk sabut kelapa sebagai media tanam Krisan/Sutater, T.; Suciantini; Tejasarwana, R. (Balai Penelitian Tanaman Hias, Jakarta (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 293-301 5 tables; 15 ref. Summary (In)

COCONUTS; AGRICULTURAL WASTES; CHRYSANTHEMUM; GROWING MEDIA; CHEMICOPHYSICAL PROPERTIES; CROP PERFORMANCE.

F02 PLANT PROPAGATION / PERBANYAKAN TANAMAN

0361 ANDALASARI, T.D. Effect of humic acid on in vitro regeneration of potato. Pengaruh asam humat pada regenerasi tanaman kentang (*Solanum tuberosum* L.) secara in vitro/Andalasari, T.D. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 39-41 1 ill., 10 ref. Summary (En)

SOLANUM TUBEROSUM; HUMIC ACIDS; IN VITRO REGENERATION; VARIETIES.

0362 KOERNIATI, S. [Research status of breeding and propagation of cashew]. Status penelitian pemuliaan dan perbanyakan bahan tanaman jambu mente/Koerniati, S.; Hadad E.A.; Bermawie, N.; Djisbar, A.; Sudrajat, J. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 113-122 1 ill., 2 tables; 7 ref. Summary (In)

ANACARDIUM OCCIDENTALE; BREEDING METHODS; CLONES; AGRONOMIC CHARACTERS; VEGETATIVE; PROPAGATION; GERMPLOSM.

0363 MASHUD, N. [Utilization of embryo culture on conservation, collection and exchange of coconut germplasm]. Pemanfaatan kultur embrio dalam konservasi, koleksi dan pertukaran plasma nutfah kelapa/Mashud, N.; Novianto, H. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 151-158 5 ref. Summary (In)

COCOS NUCIFERA; EMBRYO CULTURE; GERMPLOSM CONSERVATION.

0364 NAIBAHO, B. Cloning subtilisin like protease gene of *Bacillus pumilus* Y1 into *E. coli* DH5 alpha/Naibaho, B.. Visi (Indonesia) ISSN 0853-0203 (1998) v. 6(1) p. 1-14 6 ill., 2 tables; 19 ref. Summary (In)

BACILLUS; MOLECULAR CLONING; PROTEASES; ESCHERICHIA COLI; HYBRIDIZATION.

0365 PITONO, J. [Grafting method as a problem solution for cashew plant material]. Peluang metode penyambungan mengatasi permasalahan bahan tanaman jambu mente/Pitono, J. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 215-219 2 tables; 5 ref. Summary (In)

ANACARDIUM OCCIDENTALE; PROPAGATION MATERIALS; GRAFTING.

0366 PRASWANTO. [Resistance test of rice callus (*Oryza sativa*) in several Polyethylene glycol concentrates and salt water percentage]. Pengujian ketahanan kalus padi (*Oryza sativa*) dalam beberapa konsentrasi Polietilen glikol (PEG) dan persentase air laut/Praswanto (Universitas Sebelas Maret, Surakarta (Indonesia). Fakultas Pertanian). Caraka Tani (Indonesia) ISSN 0854-3984 (1998) v. 13(2) p. 32-40 5 tables; 8 ref. Summary (In)

ORYZA SATIVA; CALLUS; SALINE WATER; GROWTH RATE.

F03 SEED PRODUCTION / PRODUKSI DAN PERLAKUAN TERHADAP BIJI DAN BENIH

0367 DAMANIK, S. [Cashew seedlings programs]. Program perbenihan jambu mente/Damanik, S. (Direktorat Jenderal Perkebunan, Jakarta (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 60-65 2 tables

ANACARDIUM OCCIDENTALE; SEEDLINGS; GERMPLASM; STATISTICAL DATA; DEVELOPMENT POLICIES.

0368 EMMYZAR. [Effect of environmental factors on local high yielding variety production of cashew]. Peranan faktor lingkungan terhadap produksi benih unggul lokal jambu mente/Emmyzar; Lubis, M.J.; Sukarman (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia); Tarigans, D.D.. [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 148-157 3 tables; 21 ref. Summary (In)

ANACARDIUM OCCIDENTALE; ENVIRONMENTAL FACTORS; SEEDLINGS; LAND SUITABILITY; CLIMATE.

0369 HOBIR. [Potential of biotechnology in ginger seed industry]. Potensi bioteknologi dalam industri benih jahe/Hobir; Mariska, I. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 105-112 3 tables; 34 ref. Summary (In)

ZINGIBER OFFICINALE; QUALITY; TISSUE CULTURE; SOMACLONAL VARIATION; PROTOPLAST FUSION; WILTS; BIOTECHNOLOGY.

0370 JANUWATI, M. [Handling of ginger used for seedlings]. Teknik penanganan rimpang jahe untuk benih/Januwati, M.; Surmaini, E. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 208-214 6 ill., 4 ref. Summary (In)

GINGER; POSTHARVEST TECHNOLOGY; SEEDLINGS; GRADING; DRYING; SEED STORAGE; PACKAGING.

0371 MUNAWIR, M. [Ginger seedling programs]. Program perbenihan jahe/Munawir, M. (Direktorat Jenderal Tanaman Pangan dan Hortikultura, Jakarta (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 42-35 4 tables. Summary (In). Appendix

ZINGIBER OFFICINALE; SEEDLINGS; QUALITY; STATISTICAL DATA; CONSTRAINTS; HUMAN RESOURCES.

0372 MURDIMAN [Quality control and certification of ginger seedlings]. Pengawasan mutu dan sertifikasi benih jahe/Murdiman (Direktorat Jenderal Tanaman Pangan dan Hortikultura, Jakarta (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 56-59 Summary (In)

ZINGIBER OFFICINALE; SEED CERTIFICATION; QUALITY.

0373 RUMIATI. [Study of cashew seedlings development]. Studi perkembangan benih jambu mente/Rumiati; Sukarman; Rusmin, D.; Hasanah, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 220-223 2 tables; 4 ref. Summary (In)

ANACARDIUM OCCIDENTALE; GERMINABILITY; SEEDS; WATER MOISTURE; AGES; DEVELOPMENTAL STAGES.

0374 SUDIARTO. [Technology of ginger seed production]. Teknologi produksi benih jahe/Sudiarto; Supriadi; Balfas, R.; Rosita, SMD. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 83-92 1 table; 14 ref. Summary (In)

ZINGIBER OFFICINALE; SEED PRODUCTION; HIGH YIELDING VARIETIES; WILTS; HOSTS; NEMATODE INFECTIONS; AGROECOSYSTEMS.

F04 FERTILIZING / PEMUPUKAN

0375 AFANDI. [Efficiency of fertilizer applications on ratoon sugar cane viewed from energy utilization aspect]. Efisiensi cara pemupukan pada tanaman tebu keprasan ditinjau dari segi penggunaan energi/Afandi (Universitas Lampung (Indonesia). Jurusan Ilmu Tanah); Soekarno. [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 42-47 4 tables; 7 ref. Summary (En)

SUGAR CANE; RATOONS; FERTILIZERS; EFFICIENCY; APPLICATION METHODS; COST ANALYSIS.

0376 ANDRIANI, N. [Chemical composition of Sipramin on first ratooned sugar cane experiment]. Komposisi kimia Sipramin pada percobaan tanaman keprasan satu/Andriani, N.; Arifin, S.; Bachtiar, A. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 172-181. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 3 tables; 5 ref. Summary (In). Appendix

SACCHARUM OFFICINARUM; FERTILIZER APPLICATION; RATOONS; CHEMICAL COMPOSITION.

0377 ARIFIN, S. [Ammonium sulphate substitution by Sipramin on first ratooned sugarcane in medium textured upland soil at Jember (Indonesia)]. Kajian substitusi amonium sulfat oleh Sipramin pada tebu keprasan-I, di lahan tegalan bertekstur sedang, Jember/Arifin, S.; Sumoyo; Effendy, S.; Mubien, B. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 106-115. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 5 tables; 11 ref. Summary (In). Appendices

SACCHARUM OFFICINARUM; FERTILIZER APPLICATION; RATOONS; AMMONIUM SULPHATE; DRY FARMING; JAVA.

0378 ARIFIN, S. [Study of surplused Sipramin on first ratooned sugar cane in medium textured upland soil, Jember (Indonesia)]. Kajian Sipramin berlebihan terhadap produksi tebu

keprasan 1, di lahan tegalan bertekstur sedang, Jember/Arifin, S.; Simoen, S.; Sumoyo (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 135-145. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 6 tables; 15 ref. Summary (In) Appendix

SACCHARUM OFFICINARUM;
FERTILIZER APPLICATION; APPLICATION
RATES; RATOONS; GROWTH; JAVA.

0379 BARUS, J. Effect of foliar fertilizers on yield of four soybean genotypes. Pengaruh pupuk daun terhadap pertumbuhan dan produksi beberapa galur kedelai/Barus, J.; Dewi, R.M.; Hasanah; Hayani; Jekvy, H. (Lembaga Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 85-88 2 tables; 11 ref. Summary (En)

GLYCINE MAX; PROGENY; FOLIAR
APPLICATION; DOSAGE; GROWTH;
YIELDS.

0380 BARUS, J. Effect of NPK fertilizers and lime on growth of shoot and root of pepper. Pengaruh NPK dan kapur terhadap pertumbuhan tunas dan akar bibit lada/Barus, J. (Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi;

Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 57-60 3 tables; 12 ref. Summary (En)

PIPER NIGRUM; LIMING; NPK
FERTILIZERS; DOSAGE; GROWTH;
STEMS; ROOTS; SEEDLINGS; PH.

0381 BERNAS, S.M. The application of mineral zeolite on fertilizer efficiency. Penggunaan mineral zeolit dalam efisiensi pemupukan/Bernas, S.M. (Universitas Sriwijaya, Palembang (Indonesia). Fakultas Pertanian). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 65-69 16 ref. Summary (En)

ZEOLITES; FERTILIZERS; EFFICIENCY;
SOIL FERTILITY; ACRISOLS; SOIL
CHEMICOPHYSICAL PROPERTIES.

0382 DAMARJAYA, D.I. Association of arbuscular mycorrhizal fungi with rhizobia bacteria on upland rice added by organic matter and phosphate fertilizers in ultisol kentrong. Asosiasi jamur mikorisa arbuskular dengan rhizobakteri pada tanaman padi gogo yang diberi bahan organik dan pupuk fosfat di tanah ultisol kentrong/Damarjaya, D.I. (Universitas Sriwijaya, Palembang (Indonesia). Fakultas Pertanian); Soedarsono, J.; Maas, A.. [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia):

Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 70-77 5 ill., 4 tables; 10 ref. Summary (En). Appendix

UPLAND RICE; ORGANIC MATTER; PHOSPHATE FERTILIZERS; VESICULAR ARBUSCULAR MYCORRHIZAE; RHIZO-BACTERIA; INOCULATION; ACRISOLS; SOIL CHEMICOPHYSICAL PROPERTIES; JAVA.

0383 DERMIYATI. Tolerance of three legume species in several levels of pH and nitrogen. Toleransi tiga spesies legume pada berbagai level pH tanah dan pupuk nitrogen/Dermiyati (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 89-96 5 tables; 11 ref. Summary (En)

LEGUMES; SOIL PH; NITROGEN FERTILIZERS; LIMING; ROOT NODULATION; GROWTH; YIELDS.

0384 DHALIMI, A. [Efficiency increasing of fertilization on dwarf pepper under coconut planting by plant growth substances application]. Peningkatan efisiensi pemberian hara lada perdu di bawah tegakan kelapa melalui aplikasi ZPT/Dhalimi, A.; Syakir, M.; Surmaini, E. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 527-532 2 tables; 4 ref. Summary (In)

COCOS NUCIFERA; PIPER NIGRUM; INTERCROPPING; PLANT GROWTH SUBSTANCES; GROWTH; YIELD COMPONENTS.

0385 DWIWARNI, I. Effects of organic fertilizer on growth and yield of two ginger clones. Pengaruh pupuk organik terhadap pertumbuhan dan produksi dua klon jahe/Dwiwarni, I.; Pujiharti, Y.; Hayani (Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 52-57 4 tables; 22 ref. Summary (En)

ZINGIBER OFFICINALE; CLONES; ORGANIC FERTILIZERS; GROWTH; FERTILIZER APPLICATION; YIELDS; APPLICATION RATES.

0386 EMMYZAR. [Effect of fertilizer application and seed types on the growth and flowering of local cardamon under coconut planting]. Pengaruh pemupukan dan macam bibit terhadap pertumbuhan dan pembungaan tanaman kapolaga lokal di bawah tegakan kelapa/Emmyzar; Effendi, D.S.; Zaubin, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 604-613 4 tables; 15 ref. Summary (In)

COCOS NUCIFERA; AMOMUM; COMPOUND FERTILIZERS; PROPAGATION MATERIALS; INTERCROPPING; GROWTH; YIELD COMPONENTS.

0387 GOENADI, D.H. [Gold biofertilizer for fertilizer efficiency]. Biofertilizer emas untuk efisiensi pemupukan/Goenadi, D.H.; Away, Y. (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)); Saraswati, R.; Herman. Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 10-12 2 tables

INDUSTRIAL CROPS; BIOFERTILIZERS; EFFICIENCY; APPROPRIATE TECHNOLOGY.

0388 HASANAH. Test on NPK combinations on yield of bean (*Phaseolus vulgaris* L.). Pengaruh kombinasi pupuk NPK terhadap hasil buncis (*Phaseolus vulgaris*)/Hasanah; Barus, Y.

(Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 112-114 1 table; 5 ref. Summary (En)

PHASEOLUS VULGARIS; NPK FERTILIZERS; DOSAGE; GROWTH; YIELDS.

0389 HAYANI. Study on fertilizer requirement for patchouly in Cahaya Negeri-North Lampung (Indonesia). Kajian kebutuhan pupuk tanaman nilam di Cahaya Negeri-Lampung Utara/Hayani; Pujiharti, Y.; Mustikawati, D.R.; Hasanah (Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)); Slameto. [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 48-52 4 tables; 9 ref. Summary (En)

POGOSTEMON CABLIN; FERTILIZER APPLICATION; COMPOUND FERTILIZERS; GROWTH; SOIL CHEMICOPHYSICAL PROPERTIES; PRODUCTION; SUMATRA.

0390 HERMAWAN, A. Comparison of the efficiency of prilled, briquette and mudball urea fertilizers for wetland rice of IR-36. Perbandingan efisiensi pemupukan urea butiran, briket dan pelet liat (mudball-urea) untuk padi sawah IR-36/Hermawan, A.; Bakri (Universitas Sriwijaya, Palembang (Indonesia). Fakultas Pertanian). [Proceeding of national seminar on the identification of national

fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 61-64 2 tables; 5 ref. Summary (En)

ORYZA SATIVA; UREA; EFFICIENCY; APPLICATION METHODS; CROP PERFORMANCE; SOIL CHEMICO-PHYSICAL PROPERTIES.

0391 INDRIYANI, N.L.P. The effect of shade percentage and the dosage of nitrogen on growth of duku seedling. Pengaruh persentase naungan dan dosis pupuk N terhadap pertumbuhan batang bawah duku/Indriyani, N.L.P.; Sadwiyanti, L.; Susiloadi, A.; Anwarudin, M.J. (Balai Penelitian Tanaman Buah, Solok (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1242-1246 2 tables; 11 ref. Summaries (En,In)

LANSIUM DOMESTICUM; SHADING; NITROGEN FERTILIZERS; DOSAGE; FERTILIZER APPLICATION; GROWTH.

0392 MARSIL. Effect of mycorrhizal and N fertilizers on N and P absorption and yield of corn grown on acid marginal soils. Peranan fungsi mikoriza dalam peningkatan efisiensi pemupukan N dan pemanfaatan P tanah: I. Ketersediaan N dan P tanah/Marsi; Sabaruddin; Diha M.A. (Universitas Sriwijaya, Palembang (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 123-131 4 tables; 8 ref. Summary (En)

ZEA MAYS; NITROGEN FERTILIZERS; PHOSPHATES; EFFICIENCY; NUTRIENT AVAILABILITY; MYCORRHIZAE; SOIL CHEMICOPHYSICAL PROPERTIES.

0393 PREMONO, M.E. [Effect of Sipramin on soil properties: Effect of Sipramin accumulation on 2nd year on fallow land and sugar cane plantation]. Dampak Sipramin terhadap sifat tanah: pengaruh akumulasi Sipramin tahun kedua pada tanah bera dan ditanami tebu /Premono, M.E.; Arifin, S.; Sumoyo; Andriani, N.; Widayati, W.E. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 64-92. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 9 ill., 5 tables; 24 ref. Summary (In). Appendices

SACCHARUM OFFICINARUM; FALLOW; FERTILIZERS; APPLICATION RATES; SOIL CHEMICOPHYSICAL PROPERTIES; PH; JAVA.

0394 PURNOMO, E. [Effect of surplussed Sipramin on toddy characteristic of first ratooned sugar cane and its sugar production]. Pengaruh Sipramin berlebih pada sifat nira tebu keprasan pertama dan hasil gulanya/Purnomo, E.; Bachtiar, A.; Premono, M.E. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 159-171. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 5 tables; 7 ref. Summary (In)

SACCHARUM OFFICINARUM; FERTILIZER APPLICATION; SUGAR CANE; APPLICATION RATES; RATOONS; CARYOTA URENS; SUGAR.

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PENNISETUM; CALCIUM FERTILIZERS; MAGNESIUM FERTILIZERS; POTASH FERTILIZERS; ACID SOILS; GROWTH; ACRISOLS; SOIL CHEMICOPHYSICAL PROPERTIES; SUMATRA.

0396 RAHARDJO, M. [Growth of ginger seedling from tissue culture by farmyard manure application]. Pertumbuhan bibit jahe asal kultur jaringan dengan pemberian pupuk kandang/Rahardjo, M.; Hobir; Fathan, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 158-161 1 table; 11 ref. Summary (In)

ZINGIBER OFFICINALE; TISSUE CULTURE; FERTILIZER APPLICATION; GROWTH; FARMYARD MANURE; SEEDLINGS.

0397 SANTOSA, E. [Effect of phosphate solubilizer bacteria and rock phosphate on some soil properties and peanut (*Arachis hypogaea* L) response]. Pengaruh bakteri pelarut fosfat dan fosfat alam terhadap beberapa sifat tanah dan respon tanaman kacang tanah (*Arachis hypogaea* L)/Santosa, E.; Prihatini, T.; Widati, S.; Sukristiyonubowo (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)).

[Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 115-122 2 ill., 4 tables; 11 ref. Summary (En)

ARACHIS HYPOGAEA; ROCK PHOSPHATE; PROTEUS; BACILLUS; INOCULATION; SOIL CHEMICAL PHYSICAL PROPERTIES; YIELDS.

0398 SOEPARMONO. [Ammonium sulphate (AS) substitution analysis by Sipramin on the first ratooned sugarcane production (R1) in crude textured dry land at Kediri, East Java (Indonesia)]. Kajian substitusi AS oleh Sipramin terhadap produksi tebu keprasan pertama (R1), di lahan kering bertekstur kasar, Kediri/Soeparmono; Soedjarwo, O.; Effendy, S. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application] Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 93-105. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 7 tables; 6 ref. Summary (In). Appendices

SACCHARUM OFFICINARUM; RATOONS; AMMONIUM SULPHATE; DRY FARMING; FERTILIZER APPLICATION; GROWTH; YIELDS; JAVA.

0399 SOFYAN, A. [Effect of Sipramin fertilizer on yield quality and nutrient on food crops]. Dampak Sipramin terhadap mutu hasil dan kadar hara tanaman pangan/Sofyan, A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia):

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ORYZA SATIVA; ZEA MAYS; NITROGEN FERTILIZERS; FERTILIZER APPLICATION; NUTRITIVE VALUE; YIELDS.

0400 SOLEH, M. [Effect of Sipramin liquid fertilizer on the growth and yield of maize]. Pengkajian manfaat pupuk cair Sipramin terhadap pertumbuhan serta hasil jagung/Soleh, M.; Kasijadi, F.; Sembiring, H.; Suwono (Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 193-201. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 1 ill., 2 tables; 6 ref. Summary (In). Appendix

ZEA MAYS; LIQUID FERTILIZERS; APPLICATION RATES; FERTILIZER COMBINATIONS; YIELDS; GROWTH.

0401 SUMOYO. [Ammonium sulphate substitution by Sipramin on first ratooned sugarcane production in smooth textured lowland at Pasuruan (Indonesia)]. Kajian substitusi amonium sulfat oleh Sipramin terhadap produksi tebu keprasan pertama pada lahan sawah bertekstur halus di Pasuruan/Sumoyo; Arifin, S.; Bachtiar, A.; Effendy, S. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 116-125. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 7 tables; 16 ref. Summary (In)

SACCHARUM OFFICINARUM; FERTILIZER APPLICATION; APPLICATION RATES; AMMONIUM SULPHATE; LOWLAND; JAVA.

0402 SUMOYO. [Study of surplussed dosage of Sipramin on production of first ratooned sugar cane in smooth textured wetland, Pasuruan (Indonesia). Kajian Sipramin takaran berlebih terhadap produksi tebu keprasan pertama pada lahan sawah bertekstur halus di Pasuruan/Sumoyo; Effendy, S.; Bachtiar, A. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 146-158. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 11 tables; 19 ref. Summary (In)

SACCHARUM OFFICINARUM; RATOONS; WASTES; FERTILIZER APPLICATION; APPLICATION RATES; FLOODED LAND; IRRIGATED LAND; JAVA.

0403 SUTIKNO, H. Some factors affecting low fertilizer's absorption on tidal swamp's rice farms of South Kalimantan. Beberapa faktor penyebab rendahnya serapan pupuk buatan usaha tani padi di lahan pasang surut Kalimantan Selatan/Sutikno, S.; Raihan, S. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 36-41 2 tables; 7 ref. Summary (En)

ORYZA SATIVA; FERTILIZER APPLICATION; ABSORPTION; CREDIT; EFFICIENCY; INTERTIDAL ENVIRONMENT; KALIMANTAN.

0404 SUWONO. [Effect of Sipramin liquid fertilizer on the growth and yield of rice]. Pengaruh pupuk cair Sipramin terhadap

pertumbuhan dan hasil padi/Suwono; Soleh, M.; Sembiring, H.; Kasijadi, F. (Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 202-213. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 2 ill., 7 tables; 3 ref. Summary (In)

ORYZA SATIVA; LIQUID FERTILIZERS; FERTILIZER COMBINATIONS; APPLICATION RATES; GROWTH; YIELDS.

0405 WIDAYATI, W.E. [Study of surplussed Sipramin on the growth and yield of first ratooned sugar cane in crude textured dry land, Kediri (Indonesia)]. Kajian Sipramin berlebih terhadap pertumbuhan dan produksi tebu keprasan pertama di lahan kering, bertekstur kasar, Kediri/Widayati, W.E.; Premono, M.E.; Suparmono (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasijadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 126-134. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 2 ill., 3 tables; 4 ref. Summary (In)

SACCHARUM OFFICINARUM; FERTILIZER APPLICATION; APPLICATION RATES; GROWTH; YIELDS; DRY FARMING; JAVA.

0406 YUFDY, P. Study on effectiveness of rock phosphate on growth and production of ginger. Studi efektivitas fosfat alam pada tanaman jahe/Yufdy, P. (Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standarisasi mutu yang efektif/

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ZINGIBER OFFICINALE; ROCK PHOSPHATE; DOSAGE; SOIL CHEMICO PHYSICAL PROPERTIES; GROWTH; YIELDS.

0407 ZUBAIDAH, Y. Response of shallot to animal manure and nitrogen fertilizer. Tanggap bawang merah terhadap pupuk kandang dan pupuk nitrogen/Zubaidah, Y.; Kari, Z. (Balai Pengkajian Teknologi Pertanian, Padang (Indonesia)). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 53-56 3 tables; 9 ref. Summary (En)

ALLIUM ASCALONICUM; FARMYARD MANURE; NITROGEN FERTILIZERS; SOIL CHEMICOPHYSICAL PROPERTIES; CROP PERFORMANCE; YIELDS.

0408 ZUBAIR, A. Efficiency of liquid organic N fertilizer application on growth and yield of upland rice. Effisiensi pemberian pupuk N organik cair terhadap pertumbuhan dan hasil padi gogo/Zubair, A.; Agusni; Widyantoro; Sarno (Loka Pengkajian Teknologi Pertanian Natar, Lampung, (Indonesia)). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 58-62 4 tables; 4 ref. Summary (En)

UPLAND RICE; ORGANIC FERTILIZERS; LIQUID WASTES; GLUTAMIC ACID; GROWTH; YIELDS; FERTILIZER APPLICATION; APPLICATION RATES.

F07 SOIL CULTIVATION / PENG-OLAHAN TANAH

0409 DERMIYATI. Effects of mulch on the soil microorganism activity and the yield of hybrid C-1 corn. Pengaruh mulsa terhadap aktivitas mikroorganisme tanah dan produksi jagung hibrida C-1/Dermiyati (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 63-68 4 tables; 10 ref. Summary (En)

ZEA MAYS; HYBRIDS; MULCHES; MICROORGANISMS; SOIL FUMIGATION; PRODUCTION.

0410 ISNAINI, S. Changes in organic C, N-NO₃ and plant dry-weight in a rice field with several tillage systems and N-fertilizer. Kandungan C-organik, N-NO₃ dan bobot kering tanaman akibat penerapan sistem olah tanah dan pemupukan N pada tanah sawah/Isnaini, S. (Sekolah Tinggi Pertanian Surya Dharma, Bandar Lampung (Indonesia)). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 42-46 3 tables; 10 ref. Summary (En)

ORYZA SATIVA; NITROGEN FERTILIZERS; TILLAGE; NITROGEN DIOXIDE; ORGANIC COMPOUNDS; FERTILIZER APPLICATION.

0411 MULUDI, K. Effects of crop litters and methods of application on pore distribution of planted with sorghum (*Sorghum bicolor* (L.) Moench.). Pengaruh beberapa jenis dan cara pemberian serasah tanaman terhadap distribusi ruang pori tanah yang ditanami sorgum (*Sorghum bicolor* (L.) Moench.)/Muludi, K. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 1-5 4 tables; 9 ref. Summary (En)

SORGHUM BICOLOR; STRAW MULCHES; CENTROSEMA PUBESCENS; RICE STRAW; SOIL PORE SYSTEM; WATER AVAILABILITY; SOIL WATER BALANCE.

0412 SAEFUDIN. [Effect of tillage among coconut planting on growth and yield of banana as catch crops]. Pengaruh pengolahan tanah di

antara kelapa terhadap pertumbuhan dan produksi tanaman sela pisang/Saefudin; Towaha, J.; Tjahjana, B.E. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 544-549 2 tables; 14 ref. Summary (In)

COCOS NUCIFERA; MUSA PARADISIACA; INTERCROPPING; TILLAGE; YIELDS.

0413 YUSNAINI, S. Vesicular-Arbuscular Mycorrhizae in corn plants as affected by long-term tillages and nitrogen fertilization. Keragaman jenis mikoriza vesikular arbuskular pada tanaman jagung akibat olah tanah konservasi dan pemupukan nitrogen jangka panjang/Yusnaini, S.; Utomo, M.; Arif, M.A.S.; Niswati, A. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 69-73 4 ill., 11 ref. Summary (En)

ZEA MAYS; VESICULAR ARBUSCULAR MYCORRHIZAE; CONSERVATION TILLAGE; NITROGEN FERTILIZERS; FERTILIZER APPLICATION.

F08 CROPPING PATTERNS AND SYSTEMS / POLA TANAM DAN SISTEM PENANAMAN

0414 ALLORERUNG, D. [Spacing and cropping system of non conventional coconut planting]. Jarak dan sistem tanam kelapa non konvensional/Allorerung, D.; Barri, N.L.; Ilat, A. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 143-150 2 tables; 15 ref. Summary (In)

COCOS NUCIFERA; SPACING; INTERCROPPING; CROP PERFORMANCE.

0415 BACHRI, S. Climate as a key factor of land suitability for upland crop development at northern coastal plain of eastern part of West Java. Iklim sebagai salah satu faktor penentu kesesuaian lahan untuk pengembangan tanaman pangan lahan kering di daerah pantura Jawa Barat Bagian Timur/Bachri, S.; Djaenudin, D. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Jurnal Penelitian & Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (1999) v. 18(1) p. 29-39 3 ill., 10 tables; 17 ref. Summaries (En, In). Appendix

FOOD CROPS; RAIN; AIR TEMPERATURE; LAND SUITABILITY; DRY FARMING; JAVA.

0416 BALAI BESAR ALAT DAN MESIN PERTANIAN. [Drying technology for pepper farming system support]. Teknologi pengeringan untuk mendukung usaha tani cabai/Balai Besar Alsintan, Serpong (Indonesia). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 9-10 2 tables

PEPPER; FARMING SYSTEMS; DRYING.

0417 CICU. Pattern of vegetables rotation system between passion fruit. Pola rotasi tanaman sayuran di antara tanaman markisa/Cicu (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Jeneponto (Indonesia)); Mustaha, M.A.; Hutagalung, L.. Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1261-1269 4 tables; 14 ref. Summaries (En,In). Appendices

CAPSICUM ANNUUM; BRASSICA OLERACEA; ALLIUM FISTULOSUM; SOLANUM TUBEROSUM; PASSIFLORA EDULIS; ROTATIONAL CROPPING; LAND PRODUCTIVITY; PRODUCTION; FARM INCOME; FARM MANAGEMENT.

0418 DHALIMI, A. [Opportunity of spices and drug plants development among coconut planting]. Peluang pengembangan tanaman rempah dan obat di antara kelapa/Dhalimi, A.; Syakir, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan

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COCOS NUCIFERA; DRUG PLANTS; FLAVOURING CROPS; CATCH CROPPING; ENVIRONMENTAL FACTORS.

0419 HERMAN, M. [Coconut based multiple cropping development on intertidal land]. Pengembangan kelapa secara polikultur di lahan pasang surut/Herman, M.; Pranowo, D.; Luntungan, H.T.; Tampake, H. (Loka Penelitian Polatanam Kelapa, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 177-194 2 ill., 5 tables; 30 ref. Summary (In)

COCOS NUCIFERA; MULTIPLE CROPPING; CULTIVATION; SHADING; ROOTS; SOIL CHEMICOPHYSICAL PROPERTIES; INTERTIDAL ENVIRONMENT.

0420 JANUWATI, M. [The growth and yield of Indian Pennywort (*Centella asiatica* L.) under coconut planting]. Pertumbuhan dan produksi pegagan (*Centella asiatica* L. Urban) di bawah kelapa/Januwati, M.; Yusron, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 595-603 2 tables; 15 ref. Summary (In). Appendix

COCOS NUCIFERA; UMBELLIFERAE; INTERCROPPING; CULTIVATION; YIELDS.

0421 LUNTUNGAN, H.T. [*Boehmeria nivea* under young coconut planting]. Tanaman sela rami (*Boehmeria nivea*) di antara kelapa yang belum menghasilkan/Luntungan, H.T.; Taher, S. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan

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COCOS NUCIFERA; BOEHMERIA NIVEA; INTERCROPPING; CULTIVATION; COST BENEFIT ANALYSIS.

0422 NUR, A.M. Agronomy aspect of the diversification of arabica coffee with *Citrus nobilis*. Aspek agronomi diversifikasi kopi arabika dengan tanaman jeruk keprok/Nur, A.M.; Atmawinata, O. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1253-1260 4 tables; 13 ref. Summaries (En, In)

COFFEA ARABICA; CITRUS; DIVERSIFICATION; LIGHT; ROOTS; GROWTH; YIELDS.

0423 PRANOWO, D. High density coconut cropping system. Polatanam populasi tinggi berbasis kelapa/Pranowo, D.; Saefudin; Tarigans; Mahmud, Z. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 533-543 3 ill., 2 tables; 12 ref. Summary (In). Appendices

COCOS NUCIFERA; CROPPING SYSTEMS; SPACING; SHADING; CATCH CROPS.

0424 RANDRIANI, E. [Performance of several catch cropping on coconut planting]. Keragaan beberapa tanaman sela di antara kelapa/Randriani, E.; Wardiana, E.; Ferry, J.; Heryana, N. (Loka Penelitian Polatanam Kelapa, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 266-283 13 tables; 14 ref. Summary (In). Appendix

COCOS NUCIFERA; ZEA MAYS; ARACHIS HYPOGAEA; MUSA PARADISIACA;

ANANAS COMOSUS; CATCH CROPPING; CROP PERFORMANCE; YIELD COMPONENTS; CLIMATIC FACTORS.

0425 SASTROSUPADI, A. [Development of coconut-kenaf, and roselle intercropping]. Pengembangan tanaman kenaf dan rosella di antara kelapa/Sastrosupadi, A. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 258-265 2 tables; 11 ref. Summary (In)

COCONUTS; HIBISCUS CANNABINUS; HIBISCUS SABDARIFFA; CATCH CROPPING; CULTIVATION.

0426 SIMARMATA, R. [Growth of Deli tobacco in *Albizia falcataria* and *Commersonia echinata* rotational land using several tillage methods]. Pertumbuhan tembakau Deli di lahan rotasi tanaman sengon (*Albizia falcataria*) dan Senu (*Commersonia echinata*) dengan beberapa metoda pengolahan tanah/Simarmata, R. (Balai Penelitian Tembakau Deli, Medan (Indonesia)); Siregar, D.. Buletin Balai Penelitian Tembakau Deli (Indonesia) ISSN 0215-2665 (1998) v. 12(2) p. 10-24 4 tables; 7 ref. Summary (In). Appendices

NICOTIANA TABACUM; PARASERIANTHES FALCATARIA; ROTATIONAL CROPPING; GROWTH; TILLAGE; SOIL CHEMICOPHYSICAL PROPERTIES; PLANT RESPONSE.

0427 SOETIARSO, T.A. Shallot and hot pepper sequential cropping system identification to support Integrated Pest Management implementation in Brebes (Indonesia). Identifikasi usahatani tumpang gilir bawang merah dan cabai merah guna menunjang pengendalian hama terpadu di Brebes/Soetiarso, T.A.; Purwanto; Hidayat, A. (Balai Penelitian Tanaman Sayuran, Lembang (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1312-1329 14 tables; 28 ref. Summaries (En, In)

ALLIUM ASCALONICUM; CAPSICUM ANNUUM; INTEGRATED PEST CONTROL; SEQUENTIAL CROPPING; FERTILIZER APPLICATION; FARM MANAGEMENT.

0428 SUDIARTO. [Cultivation of West Indian arrowroot under coconut planting]. Peluang budidaya tanaman garut (*Maranta arundinacea* L.) di bawah kelapa/Sudiarto; Effendi, D.S. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 638-645 2 tables; 13 ref. Summary (In)

COCOS NUCIFERA; MARANTA ARUNDINACEA; INTERCROPPING; CULTIVATION; ENVIRONMENTAL FACTORS; PROXIMATE COMPOSITION.

0429 SYAKIR, M. [Added value on the development of dwarf pepper intercropped with coconut planting]. Nilai tambah pengembangan lada perdu di antara tanaman kelapa/Syakir, M.; Rosmelisa, P.; Wahid, P. (Balai Penelitian Tanaman Rempah dan Tanaman Obat, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 462-472 4 tables; 27 ref. Summary (In)

COCONUTS; PIPER NIGRUM; INTERCROPPING; CULTIVATION; ENVIRONMENTAL FACTORS; COST BENEFIT ANALYSIS.

F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN

0430 BATUGAL, P. International collaboration in coconut germplasm conservation and utilization/Batugal, P. (International Plant Genetic Resources Institute). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et

al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 110-117 2 tables; 2 ref. Summary (En)

COCOS NUCIFERA; CGIAR; GERMPLASM CONSERVATION; GENE BANKS; GENETIC RESOURCES; RESEARCH NETWORKS.

0431 BUDIJONO. [PS 89-13354, PS 89-221513, PS 89-22631 high yielding varieties taken from orientation test in PG Sei Semayang PTP Nusantara II, Sumatra Utara (Indonesia). Varietas unggul harapan PS 89-13354, PS 89-221513, PS 89-22631 hasil uji orientasi varietas di PG Sei Semayang PTP Nusantara II Sumatera Utara/Budijono (Balai Penelitian Perkebunan Gula Indonesia, Medan (Indonesia)). Buletin Balai Penelitian Tembakau Deli (Indonesia) ISSN 0215-2665 (1998) v. 12(2) p. 49-55 3 tables; 4 ref. Summary (In)

SACCHARUM OFFICINARUM; HIGH YIELDING VARIETIES; SELECTION; AGRONOMIC CHARACTERS.

0432 CHATRI, M. [Effect of concentration of *Pseudomonas syringae* pv. *glycinea* race 4 filtrates to soybean callus of Harosoy variety]. Pengaruh konsentrasi filtrat *Pseudomonas syringae* pv. *glycinea* ras 4 terhadap kalus kedelai varietas Harosoy/Chatri, M. (Institut Keguruan dan Ilmu Pendidikan, Padang (Indonesia). Jurusan Pendidikan Biologi FPMIPA). SAINSTEK (Indonesia) ISSN 1410-8070 (1999) v. 2(1) p. 1-15 1 ill., 5 tables; 23 ref. Summary (En)

GLYCINE MAX; PSEUDOMONAS SYRINGAE; SOMACLONAL VARIATION; CALLUS.

0433 DARWIS, A.A. Biotechnology for sustainable agricultural development/Darwis, A.A.; Wattimena, G.A. (Institut Pertanian Bogor (Indonesia)). Proceedings of the Indonesian Biotechnology Conference, Volume III/Jenie, U.A. [et al.] (eds.). Bogor (Indonesia): IPB, 1997 p. 3-24 29 ref.

INDONESIA; BIOTECHNOLOGY; BIOPESTICIDES; BIOFERTILIZERS; CROPPING

SYSTEMS; AGRICULTURAL DEVELOPMENT; SUSTAINABILITY; AGROFORESTRY.

0434 DHALIMI, A. [Study of cashew and ginger seedlings in Indonesia]. Status dan program penelitian perbenihan jambu mente dan jahe di Indonesia/Dhalimi, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 32-40 1 table; 23 ref. Summary (In)

ANACARDIUM OCCIDENTALE; ZINGIBER OFFICINALE; HYBRIDIZATION; AGRONOMIC CHARACTERS; SEEDLINGS; DRYING; GERMPLASM.

0435 DJISBAR, A. [Breeding method of cashew]. Beberapa metode untuk mendapatkan benih unggul jambu mente dan cara pengelolaannya/Djisbar, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 126-137 7 ill., 13 ref. Summary (In). Appendices

ANACARDIUM OCCIDENTALE; BREEDING METHODS; MASS SELECTION.

0436 HARTATI, N.S. [Canola as a source for biotechnology strength]. Canola-tanaman sumber kekuatan bioteknologi/Hartati, N.S. Warta Biotek (Indonesia) ISSN 0215-2835 (Mar-Jun 1999) v. 13(1-2) p. 20-22

BRASSICA NAPUS; BIOTECHNOLOGY; TRANSGENIC PLANTS.

0437 MASHUD, N. [Random Amplified Polymorphic DNA (RAPD) analysis on kopyor coconuts]. Analisis Random Amplified Polymorphic DNA (RAPD) pada tanaman kelapa kopyor/Mashud, N.; Novianto, H.

(Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)) Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 159-167 2 ill. Summary (In)

COCOS NUCIFERA; NUCLEOTIDE SEQUENCE; RAPD; PCR.

0438 NOVARIANTO, H. [Centre for the international coconut genebank]. Pusat konservasi plasma nutfah kelapa internasional/Novarianto, H.; Maskromo, I.; Allorerung, D. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 118-130 11 ref. Summary (In). Appendices

COCOS NUCIFERA; GENE BANKS; GERMPLASM CONSERVATION; GENETIC RESOURCES.

0439 SUKARMAN. [Technology of cashew seed production]. Teknologi produksi benih jambu mente/Sukarman; Hasanah, M.; Rusmin, D.; Rumiati (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 93-101 6 tables; 20 ref. Summary (In)

ANACARDIUM OCCIDENTALE; SEEDLINGS; HARVESTING DATE; DRYING; GRADING; STORAGE.

0440 TENDA, E.T. [Characteristic of coconut chemico-physical properties of several coconut germplasm]. Karakterisasi sifat fisik dan kimia buah plasma nutfah kelapa/Tenda, E.T.; Lengkey, H.G.; Novarianto, H. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman

Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 131-142 7 tables; 9 ref. Summary (In)

COCONUTS; GERMPLASM; PROXIMATE COMPOSITION; YIELDS.

0441 TORUAN-MATHIUS, N. The use of RAPD to evaluate genetic variability of hybrid parent in *Theobroma cacao* L. plants. Pemanfaatan RAPD untuk mengevaluasi keragaman genetik tetua hibrida tanaman *Theobroma cacao* L./Toruan-Mathius, N.; Hutabarat, T. (Biotechnology Research Unit for Estate Crops, Bogor (Indonesia)); Suhendi, D. Menara Perkebunan (Indonesia) ISSN 0215-9318 (1997) v. 65(2) p. 53-63 2 ill., 2 tables; 30 ref. Summaries (En, In)

THEOBROMA CACAO; GENETIC VARIATION; GENETIC MARKERS; RAPD.

0442 WAHID, P. [Concept of cashew and ginger seeding systems in Indonesia]. Konsep pemikiran sistem perbenihan jambu mente dan jahe di Indonesia/Wahid, P. (Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 8-20 2 ill., 3 tables; 17 ref.

ANACARDIUM OCCIDENTALE; ZINGIBER OFFICINALE; SEEDLINGS; HIGH YIELDING VARIETIES; SKILLED LABOUR; INDONESIA.

0443 ZURAIIDA, N. Multigenotype variety as an alternative of pure variety. Varietas multigenotipe sebagai alternatif varietas murni/Zuraida, N. (Balai Penelitian Bioteknologi Tanaman Pangan, Bogor (Indonesia)). Jurnal Penelitian & Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (1999) v. 18(1) p. 18-22 5 tables; 12 ref. Summaries (En, In)

VARIETIES; GENOTYPES; GENETIC VARIATION; COMPOSITE POPULATIONS; YIELDS.

F40 PLANT ECOLOGY / EKOLOGI TANAMAN

0444 EMMYZAR. [Environmental factors affecting on ginger seedlings]. Faktor-faktor lingkungan yang berpengaruh pada benih jahe/Emmyzar; Rosman, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 175-182 2 tables; 15 ref. Summary (In)

ZINGIBER OFFICINALE; SEEDLINGS; ENVIRONMENTAL FACTORS; LAND SUITABILITY.

F60 PLANT PHYSIOLOGY AND BIO-CHEMISTRY / FISILOGI DAN BOKIMIA TANAMAN

0445 SISWANTO. Changes of proline, glycine-betaine content and LMW-HSP for early detection of water stress tolerance in robusta coffee. Perubahan kandungan prolin, glisin-betain dan LMW-HSP untuk penduga dini ketahanan cekaman kekeringan pada kopi robusta/Siswanto (Biotechnology Research Unit for Estate Crops, Bogor (Indonesia)); Sudradjat; Sopian, T. Menara Perkebunan (Indonesia) ISSN 0215-9318 (1997) v. 65(2) p. 85-94 4 ill., 21 ref. Summaries (En,In)

COFFEA CANEPHORA; DROUGHT STRESS; DROUGHT RESISTANCE; PROLINE; GLYCINE (AMINO ACID).

0446 WIJAYA, C.H. Identification and characterization of potent odorants of Kweni fruits (*Mangifera odorata* Griff). Identifikasi dan karakterisasi potent odorant mangga Kweni (*Mangifera odorata* Griff)/Wijaya, C.H.; Apriyanto, A. (Institut Pertanian Bogor (Indonesia)); Raharja, H.. Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 24-31 3 ill., 3 tables; 19 ref. Summary (En)

MANGIFERA; FRUIT; SMELL; EXTRACTS FLAVOUR; EPIDERMIS; VOLATILE COMPOUNDS.

F61 PLANT PHYSIOLOGY - NUTRITION / FISILOGI TANAMAN - NUTRISI

0447 MURNI, A.M. Nutrient status of hybrid coconut and fertilization recommendation in two villages of Palas District, South Lampung [Indonesia]. Status hara kelapa hibrida dan rekomendasi pemupukan di dua desa, Kecamatan Palas, Lampung Selatan/Murni, A.M.; Kasim, R.; Ernawati, R.; Asnawi, R. (Loka Pengkajian Teknologi Pertanian Natar, Lampung (Indonesia)). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (1997) v. 3(5) p. 47-51 2 tables; 11 ref. Summary (En)

COCOS NUCIFERA; HYBRIDS; NUTRITIONAL STATUS; FERTILIZATION; FERTILIZER APPLICATION.

F62 PLANT PHYSIOLOGY - GROWTH AND DEVELOPMENT / FISILOGI TANAMAN - PERTUMBUHAN DAN PERKEMBANGAN

0448 SUHARTO. The evaluation of relationship among leaf area, length and diameter of spurs with fruit's yield of rambutan. Evaluasi hubungan luas daun, panjang, dan diameter ranting dengan hasil buah rambutan /Suharto; Sudarso, D. (Balai Penelitian Tanaman Buah, Solok (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1247-1252 3 tables; 17 ref. Summaries (En, In)

NEPHELIUM LAPPACEUM; LEAVES; SPURS; GROWTH; YIELDS.

0449 SUYANTI. Quality characterization of fresh mangosteen fruits. Karakterisasi mutu buah manggis segar/Suyanti; Roosmani (Balai Penelitian Tanaman Hias, Jakarta (Indonesia)); Sastra, D.. Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1284-1292 5 tables; 11 ref. Summaries (En, In)

GARCINIA MANGOSTANA; QUALITY; CHEMICOPHYSICAL PROPERTIES; ORGANOLEPTIC PROPERTIES.

F63 PLANT PHYSIOLOGY - REPRODUCTION / FISILOGI TANAMAN - REPRODUKSI

0450 WAHYUNI, S. [Effect of cashew pollen storage on pollen viability]. Pengaruh penyimpanan serbuk sari jambu mente untuk bahan penyerbuk/Wahyuni, S.; Bermawie, N. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 202-207 1 ill., 1 table; 6 ref. Summary (In)

ANACARDIUM OCCIDENTALE; STORAGE; MICROSPORA; POLLEN.

H01 PROTECTION OF PLANTS - GENERAL ASPECTS / PERLINDUNGAN TANAMAN - ASPEK-ASPEK UMUM

0451 SRIWULAN, I. [Plant diseases and pests development on polyculture cropping of coconuts]. Perkembangan hama dan penyakit pada tanaman kelapa polikultur/Sriwulan, I.; Indriati, G. (Loka Penelitian Polatanam Kelapa, Sukabumi (Indonesia)); Sumanto. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 169-176 15 ref. Summary (In)

COCOS NUCIFERA; MULTIPLE CROPPING; DISEASE CONTROL; PEST CONTROL.

H10 PESTS OF PLANTS / HAMA TANAMAN

0452 BARINGBING, W.A. [Coconut moth *Batrachedra arenosella* and its control]. Ngengat bunga kelapa *Batrachedra arenosella* Walker dan pengendaliannya/Baringbing, W.A.; Indriati, G. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian

dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 566-571 1 table; 16 ref. Summary (In)

COCOS NUCIFERA; COSMOPTERIGIDAE; CHELONUS; BIOLOGICAL PROPERTIES; INSECT CONTROL; BIOLOGICAL CONTROL.

0453 ERMAYANTI, T.M. [Biotechnology as a new choice for pest control]. Bioteknologi: pilihan baru untuk pengendalian hama/Ermayanti, T.M. Warta Biotek (Indonesia) ISSN 0215-2835 (Mar-Jun 1999) v. 13(1-2) p. 15-17

CROPS; PESTICIDES; WEED CONTROL; BIOTECHNOLOGY; PEST CONTROL.

0454 HASYIM, A. Detection of egg parasitism and its mortality on the banana skipper, *Erionota thrax* (L.) eggs in the province of West Sumatra (Indonesia). Deteksi dan tingkat parasitasi parasitoid telur hama penggulus daun pisang, *Erionota thrax* (L.) di Sumatera Barat/Hasyim, A. (Balai Penelitian Tanaman Buah, Solok (Indonesia)); Hasan, N.; Syafril; Harlion; Nakamura, K. Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1278-1283 1 ill., 2 tables; 12 ref. Summaries (En, In)

MUSA PARADISIACA; HESPERIIDAE; LEAF; PARASITIDS; EGGS; MORTALITY; SUMATRA.

0455 HOSANG, M.L.A. [Integrated control on coconuts]. Pengendalian hama dan penyakit terpadu pada tanaman kelapa/Hosang, M.L.A.; Lolong, A.A. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 202-222 2 tables; 35 ref. Summary (In)

COCOS NUCIFERA; INTEGRATED CONTROL; ORYCTES RHINOCEROS; TETTIGONIIDAE; ZYGAENIDAE; LIMACODIDAE; COLEOPTERA; PLANT DISEASES.

0456 INDRIATI, G. [Opportunity of *Setora nitens* biological control]. Peluang pengendalian hama *Setora nitens* Walker secara hayati/Indriati, G.; Sriwulan, I.; Randriani, E. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 572-577 2 tables; 15 ref. Summary (In)

COCOS NUCIFERA; LIMACODIDAE; BIOLOGICAL CONTROL ORGANISMS; POPULATION DENSITY.

0457 KARDINAN, A. Prospect of *Melaleuca bracteata* leaves oil as fruit flies (*Bactrocera dorsalis*) control in Indonesia. Prospek minyak daun *Melaleuca bracteata* sebagai pengendali populasi hama lalat buah (*Bactrocera dorsalis*) di Indonesia/Kardinan, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Jurnal Penelitian & Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (1999) v. 18(1) p. 10-17 5 ill., 7 tables; 25 ref. Summaries (En,In)

MELALEUCA; BACTROCERA DORSALIS; ATTRACTANTS; BOTANICAL INSECTICIDES; APPLICATION METHODS; INDONESIA.

0458 KARDINAN, A. [The major pest of ginger seeds]. Hama utama benih jahe/Kardinan, A.; Wikardi, E.A.; Siswanto; Iskandar, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 162-166 1 table; 13 ref. Summary (In)

ZINGIBER OFFICINALE; PEST CONTROL; RADOPHOLUS SIMILIS.

0459 MARWOTO, B. Identification and population analysis of plant parasitic nematodes attacking roses in growing areas of West and Centre Java (Indonesia). Identifikasi dan analisis populasi nematoda parasitik di sentra produksi

mawar Jawa Barat dan Jawa Tengah/Marwoto, B.; Purbadi (Balai Penelitian Tanaman Hias, Jakarta (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1270-1277 2 tables; 26 ref. Summaries (En, In).

ROSA; PLANT NEMATODE; IDENTIFICATION; ROOTS; TAXONOMY; JAVA.

0460 MAWIKERE, J. [Ecobiology and termite (*Coptotermes curvignathus*) control opportunity]. Ekobiologi dan peluang pengendalian hama rayap *Coptotermes curvignathus*/Mawikere, J.; Sabbatoellah, S.; Hosang, M.L.A. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 195-201 2 tables; 7 ref. Summary (In)

COCOS NUCIFERA; COPTOTERMES; INSECT CONTROL; ECOLOGY.

0461 SABBATOELLAH, S. [*Oryctes rhinoceros* control using attractants on peat land]. Penggunaan atraktan dalam pengendalian *Oryctes rhinoceros* di lahan gambut/Sabbatoellah, S.; Mawikere, J. (Balai Penelitian Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 655-659 2 ill., 2 tables; 3 ref. Summary (In)

COCOS NUCIFERA; ORYCTES RHINOCEROS; ATTRACTANTS.

0462 SRIWULAN, I. [Pest management strategy on polyculture coconut planting]. Strategi pengelolaan organisme pengganggu tanaman (OPT) pada pertanaman kelapa polikultur/Sriwulan, I.; Indriyati, G.; Setiawan, O.; Sumanto (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan

Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 578-582 2 tables; 12 ref. Summary (In)

COCOS NUCIFERA; PEST CONTROL; INTERCROPPING; BIOLOGICAL CONTROL; LIFE CYCLE.

0463 SUHENDI, D. [Insect resistance of *Leucaena sp.* cultivar PG 79 *Heteropsylla cubana* Crawford]. Potensi lamtoro tahan kutu loncat kultivar PG 79/Suhendi, D. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 11-13 2 tables

LEUCAENA; INSECTICIDES; RESISTANCE TO CHEMICALS; HETEROPSYLLA CUBANA.

0464 TAUFIQ, E. [Attack of thrips and aphid on cashew seedlings]. Serangan thrips dan aphid pada bibit jambu mente/Taufiq, E. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 196-201 2 tables; 13 ref. Summary (In)

ANACARDIUM OCCIDENTALE; SEEDLINGS; DISEASE CONTROL; APHIDOIDEA; THRIPS (GENUS).

0465 TUMEWAN, F. [*Brontispa longissima* control using parasitoids and pathogens]. Pemanfaatan parasitoid dan patogen pada hama *Brontispa longissima* Gestro/Tumewan, F.; Hosang, M.L.A. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 631-637 4 ill., 12 ref. Summary (In)

COCOS NUCIFERA; COLEOPTERA; BEAUVERIA BASSIANA; METARHIZIUM ANISOPLIAE; TETRASTICHUS;

PARASITOIDS; PATHOGENS; BIOLOGICAL PROPERTIES; APPLICATION METHODS.

0466 YULIANI, S. [Product diversification, main product and byproducts processing of natural pesticides (Piretrum)]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping pestisida nabati (Piretrum)/Yuliani, S.; Marwati, T. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan/. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 15) 8 p. 1 ill., 1 table

CHRYSANTHEMUM CINERARIAE-FOLIUM; BOTANICAL PESTICIDES; BYPRODUCTS; HARVESTING; DRYING; EXTRACTION; STORAGE; PERFORMANCE TESTING; COST ANALYSIS.

H20 PLANT DISEASES / PENYAKIT TANAMAN

0467 BALAI PENELITIAN VETERINER. [Fasciolosis control using biological agents]. Pengendalian Fasciolosis dengan memanfaatkan agen-agen biologis/Balai Penelitian Veteriner, Bogor (Indonesia). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 7-8 1 table

RUMINANTS; DISEASE CONTROL; PREDATORS; CYPRINUS CARPIO; FASCIOLASIS.

0468 HADIWIYONO. "Menthol" disease as cabbages new epsilon in Tawangmangu, Karanganyar (Indonesia). Penyakit "Menthol" sebagai pengganggu baru kubis-kubisan di Tawangmangu, Karanganyar/Hadiwiyono; Supriyadi (Universitas Sebelas Maret, Surakarta (Indonesia). Fakultas Pertanian). Caraka Tani (Indonesia) ISSN 0854-3984 (1998) v. 13(2) p. 16-23 3 tables; 3 ref. Summary (In)

BRASSICA OLERACEA CAPITATA; PLASMIDIOPHORA BRASSICAE; DISEASE CONTROL; JAVA.

0469 MANOHARA, D. [Fungi infection on cashew seedlings]. Jamur bawaan benih jambu mente/Manohara, D.; Hasnah, M.; Hoveriza, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.) . Bogor (Indonesia): Balitro, 1997 p. 171-173 1 table; 8 ref. Summary (In)

ANACARDIUM OCCIDENTALE;
SEEDLINGS; PATHOGENICITY.

0470 SUMBAYAK, B.S. [The possibility study of gum benzoin as a fungicide]. Studi kemungkinan penggunaan kemenyan sebagai fungisida/Sumbayak, B.S.. Visi (Indonesia) ISSN 0853-0203 (1998) v. 6(1) p. 30-37 1 ill., 2 tables; 15 ref. Summary (En)

OLEORESINS; FUNGICIDES; FUNGI; PEST CONTROL.

0471 SUPRIADI. [Serological detection of *Pseudomonas solanacearum* on ginger seedlings]. Deteksi secara serologi *Pseudomonas solanacearum* dalam bibit jahe/Supriadi; Mulya, K.; Febriyanti, D.; Adhi, E.M.; Karyani, N. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 167-170 2 tables; 6 ref. Summary (In)

ZINGIBER OFFICINALE; IMMUNOLOGICAL TECHNIQUES; PSEUDOMONAS SOLANACEARUM; SEEDLINGS; ELISA.

0472 TOMBE, M. [Fusarium root rots disease on cashew seedlings]. Penyakit busuk akar Fusarium pada bibit jambu mente/Tombe, M.; Taufiq, E.; Supriadi; Sitepu, D. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.;

Supriadi; Hobir (eds.) Bogor (Indonesia): Balitro, 1997 p. 183-190 1 ill., 17 ref. Summary (In)

ANACARDIUM OCCIDENTALE; ROOT ROTS; FUSARIUM; SEEDLINGS.

H50 MISCELLANEOUS PLANT DISORDERS / KELAINAN LAIN PADA TANAMAN

0473 AKUBA, R.H. [Impact of drought and fires on coconuts planting and its prevention]. Dampak kekeringan dan kebakaran terhadap kelapa dan penanggulangannya/Akuba, R.H. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 223-244 12 ill., 6 tables; 24 ref. Summary (In)

COCOS NUCIFERA; VARIETIES; DROUGHT; FIRE PREVENTION; DROUGHT RESISTANCE; LIPID CONTENT; YIELD COMPONENTS.

0474 NURHAIMI-HARIS. RAPD analysis of oil palm clones with normal and abnormal fruits. Analisis RAPD tanaman kelapa sawit klonal berbuah normal dan abnormal/Nurhaimi-Haris (Biotechnology Research Unit for Estate Crops, Bogor (Indonesia)); Darussamin, A.. Menara Perkebunan (Indonesia) ISSN 0215-9318 (1997) v. 65(2) p. 64-74 2 ill., 1 table; 17 ref. Summaries (En, In)

ELAEIS GUINEENSIS; FRUIT; GENETIC DISORDERS; GENETIC MARKERS; RAPD.

H60 WEEDS AND WEED CONTROL / GULMA DAN PENGENDALIAN GULMA

0475 SUYANI, N. [Herbicide Spark 160 AS and Polaris 240 AS for weed control in sugarcane plantation]. Aplikasi herbisida Spark 160 AS dan Polaris 240 AS untuk mengendalikan gulma di gawangan tanaman tebu/Suyani, N.; Aziz, S. (Balai Penelitian Tembakau Deli, Medan (Indonesia)). Buletin Balai Penelitian Tembakau Deli (Indonesia)

ISSN 0215-2665 (1998) v. 12(2) p. 25-36 8 ill., 2 tables; Summary (In)

SACCHARUM OFFICINARUM; WEED CONTROL; HERBICIDES; ELEUSINE INDICA; AMARANTHUS SPINOSUS; PHYSALIS ANGULATA; AGERATUM CONYZOIDES; DENSITY; MORTALITY.

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

0476 BALAI PENELITIAN TANAMAN REMPAH DAN OBAT. [Product diversification, main product and byproducts processing of pepper]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping lada/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 11) 30 p. 12 ill., 7 tables; 13 ref. Appendices

PEPPER; BYPRODUCTS; DRYING; POST-HARVEST TECHNOLOGY; THRESHING; THRESHER; EQUIPMENT PERFORMANCE; DRYERS; FLAVOURING; OLEORESINS; OPERATING COSTS; QUALITY.

0477 MULJONO, D. [Postharvest handling of soursoap (*Annona muricata* L.)]. Penanganan pascapanen buah sirsak/Muljono, D.; Broto, W. (Pusat Penelitian dan Pengembangan Hortikultura, Jakarta (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 6-8 1 ill., 1 table

ANNONA MURICATA; POSTHARVEST TECHNOLOGY; HANDLING.

0478 SUKARMAN. [Handling of high quality cashew seedlings]. Penanganan benih jambu mente bermutu tinggi/Sukarman; Hasanah, M.; Rusmin, D.; Rumiati (Balai Penelitian Rempah dan Obat, Bogor (Indonesia)). [Proceedings of scientific consultation of spices and medicinal crops seedling]. Prosiding forum konsultasi

ilmiah perbenihan tanaman rempah dan obat/Hasanah, M.; Dhalimi, A.; Sitepu, D.; Supriadi; Hobir (eds.). Bogor (Indonesia): Balitro, 1997 p. 191-195 4 tables; 17 ref. Summary (In)

ANACARDIUM OCCIDENTALE; SEEDLINGS; FUSARIUM; DISEASE CONTROL.

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

0479 INSTITUT PERTANIAN BOGOR (INDONESIA). TIM PENELITI JURUSAN SOSEK PERIKANAN. [Impact of postharvest technology of tiny sea fish on fisherman welfare]. Dampak teknologi pasca panen produk hasil tangkapan ikan teri terhadap tingkat kesejahteraan nelayan/Institut Pertanian Bogor (Indonesia). Tim Peneliti Jurusan Sosek Perikanan. Bogor (Indonesia): Institut Pertanian Bogor, 1999 v, 51 p. 3 ill., 8 tables; 10 ref. Appendices

SALTED FISH; FISH PROCESSING; FISHING GEAR; FARM INCOME; SOCIAL WELFARE; POSTHARVEST TECHNOLOGY.

0480 ROZA, D. [Infection of *Atkinsiella dubia* on Japan larvae scab *Eriocheir japonicus* De Haan]. Infeksi *Atkinsiella dubia* pada larva kepiting Jepang *Eriocheir japonicus* De Haan/Roza, D. (Loka Penelitian Perikanan Pantai, Gondol (Indonesia)). LOLITKANTA Newsletter (Indonesia) (1999) (no. 12) p. 3-5 6 ill.

CRABS; INFECTION; FISH CULTURE; ISOLATION TECHNIQUES; IDENTIFICATION; YIELDS.

K50 PROCESSING OF FOREST PRODUCTS / PENGOLAHAN HASIL HUTAN

0481 GOENADI, D.H. Fungal pre-treatment of tropical softwoods for medium density

fibreboards. Perlakuan pendahuluan dengan fungsi pada kayu lunak tropika untuk papan serat berkerapatan sedang/Goenadi, D.H. (Biotechnology Research Unit for Estate Crops, Bogor (Indonesia)); Mukhtaruddin; Tambunan, B.; Pasaribu, A.R. Menara Perkebunan (Indonesia) ISSN 0215-9318 (1997) v. 65(2) p. 95-103 2 ill., 3 tables; 2 ref. Summaries (En, In)

ACACIA MANGIUM; GMELINA ARBOREA; WOOD PRESERVATION; DELIGNIFICATION; MECHANICAL PROPERTIES.

0482 KARLINASARI, L. The effect of plastization on physical and mechanical properties of bending agathis wood (*Agathis loranthifolia* Salisb.). Pengaruh perlakuan plastisasi terhadap sifat fisis mekanis kayu lengkung agathis (*Agathis loranthifolia* Salisb.)/Karlinsari, L.; Mardikanto, T.R.; Sadiyo, S. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan); Subiyanto, B.. Jurnal Teknologi Hasil Hutan (Indonesia) ISSN 0215-3351 (1997) v. 10(1) p. 38-48 2 ill., 7 tables; 7 ref. Summary (En). Appendices

AGATHIS DAMMARA; WOODWORKING; MECHANICAL PROPERTIES.

L01 ANIMAL HUSBANDRY / PETERNAKAN

0483 ISKANDAR, S. [Prospect and development effort of native chicken farming system]. Prospek dan kiat pengembangan usahatani ayam kampung/Iskandar, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia) : PUSLITBANGNAK, 1998 p. 69-84 4 tables; 33 ref. Summary (In)

CHICKENS; POULTRY REARING; FARM MANAGEMENT.

0484 KUSNADI, U. [Integrated sheep farming system in Sukawangi, Garut (Indonesia)]. Model usaha ternak domba secara terpadu di desa Sukawangi Kabupaten Garut/Kusnadi, U. (Balai Penelitian Ternak, Bogor (Indonesia)); Sugandi,

D.; Sukmaya; Salmon, M.; Rachmat, A.; Kardiana, D.. [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 187-194 6 ref. Summary (In)

SHEEP; INTEGRATED CONTROL; FARMING SYSTEMS; JAVA.

0485 SETIOKO, A.R. [Prospect and constraint of shepherd duck in Indonesia]. Prospek dan kendala peternakan itik gembala di Indonesia/Setioko, A.R. (Balai Penelitian Ternak, Ciawi (Indonesia)). [Proceedings of the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 254-261 3 tables; 12 ref. Summary (In)

DUCKS; POULTRY REARING; FARM INCOME; INTENSIVE HUSBANDRY; ANIMAL POPULATION; PRODUCTIVITY; PRODUCTION POSSIBILITIES; INDONESIA.

0486 SUBANDRIYO. Performance of the first and second generation composite breed resulting from crossing between local Sumatra sheep and hair sheep. Performa domba komposit hasil persilangan antara domba lokal Sumatera dengan domba rambut generasi pertama dan kedua/Subandriyo; Setiadi, B.; Diwyanto, K.; Handiwirawan, E. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)); Rangkuti, M.; Doloksaribu, M.; Batubara, L.P.; Romjali, E.; Eliaser, S.. Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 78-86 5 tables; 17 ref. Summaries (En, In)

SHEEP; CROSSBREEDING; ANIMAL PERFORMANCE; CROSSBREDS.

0487 SUTAMA, I.K. [Briefnote of etawah goat in milk production as a new husbandry resources]. Kambing peranakan etawah penghasil susu sebagai sumber pertumbuhan

baru sub-sektor peternakan di Indonesia/Sutama, I.K.; Budiarsana, IGM. (Balai Penelitian Ternak, Ciawi (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 156-170 1 ill., 6 tables; Bibliography p. 165-168 Summary (In)

GOATS; MILK PRODUCTS; NUTRIENTS; REPRODUCTION; INDONESIA.

0488 TARMUDJI. [Development strategy of beef cattle in South Kalimantan (Indonesia)]. Strategi pengembangan peternakan sapi potong di Kalimantan Selatan/Tarmudji (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Banjarbaru (Indonesia)). [Proceedings of the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia) : PUSLITBANGNAK, 1998 p. 234-247 8 tables; 33 ref. Summary (In)

BEEF CATTLE; PRODUCTIVITY; GENETICS; FEED CROPS; BRACHIARIA DECUMBENS; PASPALUM; BRACHIARIA BRIZANTHA; ANIMAL DISEASES; AGRO-INDUSTRIAL SECTOR; KALIMANTAN.

0489 WARDHANI, N.K. [Improvement efforts of feeds with flushing method to increase goat productivity on dryland in Yogyakarta, Indonesia]. Upaya perbaikan pakan dengan metode flushing untuk meningkatkan produktivitas ternak kambing di wilayah lahan kering Propinsi Daerah Istimewa Yogyakarta/Wardhani, N.K.; Musofie, A.; Harnowo, R. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 48-54 3 tables; 10 ref. Summary (In)

GOATS; FEEDS; PRODUCTION INCREASE; FLUSHING; DRY FARMING; JAVA.

0490 WIBOWO. [Transmigration program support on animal husbandry development]. Dukungan program transmigrasi dalam pengembangan ternak/Wibowo (Direktorat Jenderal Bina Masyarakat Transmigrasi, Jakarta (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 28-47 Summary (In)

ANIMAL HUSBANDRY; MIGRATION; INTENSIVE FARMING.

L02 ANIMAL FEEDING / MAKANAN HEWAN DARAT

0491 ASNAH. [Potential feed as green feed resources for cattle fattening in East Nusa Tenggara, Indonesia]. Pakan potensial sebagai sumber hijauan untuk penggemukan sapi di Nusa Tenggara Timur/Asnah (Balai Pengkajian Teknologi Pertanian, Naibonat, Kupang (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 213-220 7 tables; 4 ref. Summary (In)

CATTLE; FEED CROPS; GREEN FEED; FATTENING; FEED RESOURCES; NUSA TENGGARA.

0492 ELLA, A. [Review of research finding of feed crops to support green feeds availability in South Sulawesi (Indonesia)]. Tinjauan hasil-hasil penelitian tanaman makanan ternak menunjang ketersediaan hijauan pakan di Sulawesi Selatan/Ella, A.; Kartono, G.; Ishak, A.B.L. (Balai Penelitian dan Pengkajian Teknologi Pertanian, Kendari (Indonesia)). [Proceedings of the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 262-268 4 tables; 21 ref. Summary (In)

GREEN FEED; ANIMAL POPULATION;
FEED GRASSES; LEGUMINOSAE.

0493 MATHIUS, I-W. Influence of feeding protected protein and energy on intake and digestion by lambs. Pengaruh pemberian protein dan energi terlindungi terhadap konsumsi dan pencernaan oleh domba muda/Mathius, I-W.; Haryanto, B.; Susana, I.W.R. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN. 0853-7380 (1997) v. 3(2) p. 94-100 3 tables; 25 ref. Summaries (En, In)

SHEEP; LAMBS; FEED INTAKE;
PROTEINS; ENERGY EXCHANGE; SHEEP;
CONCENTRATES.

0494 SUDARYANTO, B. [Utilization of plantation waste as feeds]. Pemanfaatan limbah perkebunan sebagai pakan ternak/Sudaryanto, B. (Balai Penelitian Ternak, Ciawi (Indonesia)). [Proceedings of the national seminar of animal husbandry and veterinary: book 1] Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 248-253 4 tables; 12 ref. Summary (In)

PALM OILS; OILSEED CAKES; COCOA
HUSKS; RUBBER; BYPRODUCTS;
WASTES; USES; FEEDS.

0495 SUPRIADI, H. [Constraint potency and development alternative of green feed in yellow red podzolic dryland at Sumatra (Indonesia)]. Potensi kendala dan alternatif pengembangan hijauan pakan di lahan kering podsolik merah kuning Sumatera/Supriadi, H.; Anwarhan, H.; Kusnadi, U. (Proyek Crop Animal System Research, Batumarta (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 146-155 5 tables; 7 ref. Summary (In)

SUMATRA; GREEN FEED; DRY FARMING;
PODZOLS; PRODUCTIVITY.

0496 WIBISONO, Y. [Status and implication of probiotic technology introduction on beef cattle fattening: case in Kampar, Sumatra, Indonesia). Status dan implikasi introduksi teknologi probiotik dalam penggemukan sapi potong: kasus di Kabupaten Kampar/Wibisono, Y. (Balai Pengkajian Teknologi Pertanian, Padang Marpoyan (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia) : PUSLITBANGNAK, 1998 p. 221-227 4 tables; 10 ref. Summary (In)

BEEF CATTLE; FATTENING; PROBIOTICS;
TECHNOLOGY TRANSFER; SUMATRA.

0497 WINUGROHO, M. [Conservation concept of green feed supply in ruminant productivities optimalisation effort]. Konsep pelestarian pasokan hijauan pakan dalam usaha optimalisasi produktivitas ternak ruminansia/Winugroho, M.; Haryanto, B. (Balai Penelitian Ternak, Bogor (Indonesia)); Ma'sum, K. [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 195-201 19 ref. Summary (In)

GREEN FEED; FEED CROPS; RUMINANTS;
PRESERVATION.

L10 ANIMAL GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN HEWAN

0498 ANDAMARI, R. Gonad maturity stages of anchovies (*Engrasicholina heterolobus*) from Bacan Island/Andamari, R. (Ambon Assessment Institute of Agricultural Technology, Ambon (Indonesia)); Farmer, M.; Khodriyah, U.; Susanto, A.N.. Indonesian Fisheries Research Journal (Indonesia) ISSN 0853-8980 (1998) v. 4(2) p. 47-51 3 ill., 1 table; 8 ref. Summary (En)

ANCHOVIES; GENITAL SYSTEM; SEXUAL
MATURITY; OVIPOSITION.

0499 MUSOFIE, A. [Artificial insemination method of goat, observed from thinning agent and its application time]. Metode inseminasi buatan pada kambing ditinjau dari segi bahan pengencer dan waktu pelaksanaannya/Musofie, A.; Wardhani, N.K.; Lestari, S.B. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 228-233 2 tables; 17 ref. Summary (In)

GOATS; ARTIFICIAL INSEMINATION; SEMEN; SPERMATOZOA.

0500 SIREGAR, A.R. [Utilization of artificial insemination technology to increase beef cattle productivity in Indonesia]. Pemanfaatan teknologi inseminasi buatan (IB) dalam usaha peningkatan produktivitas sapi potong di Indonesia/Siregar, A.R.; Situmorang, P.; Diwyanto, K. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 171-186 8 tables; 14 ref. Summary (In)

BEEF CATTLE; ARTIFICIAL INSEMINATION; PRODUCTION INCREASE; INDONESIA.

L50 ANIMAL PHYSIOLOGY AND BIO-CHEMISTRY / FISILOGI HEWAN DAN BIOKIMIA HEWAN

0501 KETAREN, P.P. Availability of phosphorus in defluorinated rock phosphate and bone meal for broiler chickens as assessed by a slope ratio assay. Estimasi ketersediaan fosfor dalam defluorinated rock phosphate dan tepung tulang dengan metode slope ratio assay/Ketaren, P.P.; Silalahi, M.; Panggabean, T.; Aritonang, D. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 101-105 6 tables; 12 ref. Summaries (En, In)

BROILER CHICKENS; PHOSPHORUS; BONE MEAL.

L51 ANIMAL PHYSIOLOGY - NUTRITION / FISILOGI TERNAK DAN NUTRISI

0502 MAHYUDDIN, P. Metabolism in compensatory growth, 4: the arterial blood concentrations of amino acids and arteriovenous (AV) concentration differences of amino acids across the hind-lamb muscles in animal undergoing compensatory growth. Metabolisme dalam pertumbuhan kompensatori, 4: konsentrasi asam amino dalam darah arteri dan perbedaan konsentrasi asam amino arteri-vena pada ternak yang mengalami pertumbuhan kompensatori/Mahyuddin, P. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)); Teleni, E. Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 87-93 1 ill.; 4 tables; 19 ref. Summaries (En, In)

SHEEP; COMPENSATORY GROWTH; AMINO ACIDS; PROTEIN SYNTHESIS.

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

0503 SUTRISNO. [Temperature influence on larval growth of local catfish (*Clarias batrachus* L.) in laboratory condition]. Pengaruh suhu terhadap pertumbuhan benih ikan lele lokal dalam kondisi laboratorium/Sutrisno (Balai Penelitian Perikanan Air Tawar, Sukamandi (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 5-6 2 tables

CLARIAS BATRACHUS; TEMPERATURE; FISH LARVAE; GROWTH; LABORATORIES.

L53 ANIMAL PHYSIOLOGY - REPRODUCTION / FISILOGI HEWAN - REPRODUKSI

0504 ANDAMARI, R. Reproductive biology of anchovies (*Engrasicholina heterolobus* and

Encrasicholina devisi) from Bacan, Maluku/Andamari, R. (Ambon Assessment Institute for Agricultural Technology, Ambon (Indonesia)); Milton, D. Indonesian Fisheries Research Journal (Indonesia) ISSN 0853-8980 (1998) v. 4(2) p. 41-46 4 tables; 12 ref. Summary (En)

ANCHOVIES; REPRODUCTIVE PERFORMANCE; FERTILITY; EGG PRODUCTION; SUSTAINABILITY.

0505 KARDINAN, A. [Preliminary study of *Grylotalpa africana* Pal. reproduction on media diversity]. Penelitian pendahuluan reproduksi orong-orong *Grylotalpa africana* Pal. pada berbagai media/Kardinan, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Caraka Tani (Indonesia) ISSN 0854-3984 (1998) v. 13(2) p. 24-31 1 table; 10 ref. Summary (In)

GRYLLOTALPA; REPRODUCTION; EGG HATCHABILITY; CULTURE MEDIA; LABORATORIES.

0506 MANALU, W. [Utilization of follicle affluence using super ovulation technique for increasing of pregnancy hormone endogen secretion and mamogenic hormone to increase sheep reproduction and production efficiency]. Pemanfaatan kelimpahan folikel melalui teknik superovulasi untuk meningkatkan sekresi endogen hormon kebuntingan dan hormon mamogenik dalam upaya peningkatan efisiensi reproduksi dan produksi domba/Manalu, W.; Satyaningtjas, A.S. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Sumaryadi, M.Y.; Sudjatmogo. [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 55-68 7 tables; Bibliography p. 64-66 Summary (In)

SHEEP; OVULATION; FSH; PROGESTERONE; UTERUS; FOETUS; REPRODUCTION; PRODUCTION INCREASE.

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

0507 KARMINI, G. [Application of geographic information system in making schematic maps of Sumatra area (Indonesia)]. Aplikasi sistem informasi geografis dalam pembuatan peta sematik daerah Sumatera/Karmini, G.; Priyono, A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 8-9

CARTOGRAPHY; GEOGRAPHIC INFORMATION SYSTEMS; SUMATRA.

L72 PESTS OF ANIMALS / HAMA DAN PARASIT HEWAN

0508 BERIAJAYA. [Nematodiasis integrated control on small ruminants (management, nutrition, and its drug)]. Penanggulangan nematodiasis pada ruminansia kecil secara terpadu antara manajemen, nutrisi dan obat cacing/Beriajaya; Suhardono (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 110-121 3 tables; 33 ref. Summary (In)

SHEEP; GOATS; NEMATICIDES; INTEGRATED PEST MANAGEMENT; ANIMAL NUTRITION; VETERINARY MEDICINE.

0509 ESTUNINGSIH, S.E. Studies on the use of *Echinostoma revolutum* larvae as an agent for biological control of *Fasciola gigantica*. Studi tentang penggunaan larva cacing *Echinostoma revolutum* sebagai agen kontrol biologis cacing *Fasciola gigantica*/Estuningsih, S.E. (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 129-134 3 ill., 1 table; 21 ref. Summaries (En,In)

DUCKS; CHICKENS; BIOLOGICAL CONTROL; ANTAGONISM; ECHINOSTOMA REVOLUTUM; FASCIOLA GIGANTICA.

0510 WIDJAJANTI, S. The estimation of *Lymnaea rubiginosa* and other freshwater snails populations in the rice fields and pond in Bogor, West Java. Estimasi populasi siput *Lymnaea rubiginosa* dan siput air tawar lainnya di sawah dan kolam di Bogor, Jawa Barat/Widjajanti, S. (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 124-128 1 ill.; 3 tables; 9 ref. Summaries (En, In)

LYMNAEA; FASCIOLA GIGANTICA; POPULATION DISTRIBUTION; POPULATION DYNAMICS.

L73 ANIMAL DISEASES / PENYAKIT HEWAN

0511 BALAI PENELITIAN VETERINER. [A type of *Clostridium perfringens* vaccines]. Vaksin *Clostridium perfringens* tipe A/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 10-12

CLOSTRIDIUM PERFRINGENS; VACCINES; IMMUNE RESPONSE.

0512 BALAI PENELITIAN VETERINER. [Colibacillosis vaccines (VPEC) on cattle]. Vaksin kolibacillosis (VPEC) untuk sapi/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 7-9

CATTLE; ESCHERICHIA COLI; VACCINES; ANTIGEN ANTIBODY REACTIONS.

0513 BALAI PENELITIAN VETERINER. [Developing multivalent ETEC vaccines on pig]. Pengembangan vaksin ETEC multivalen untuk babi/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 5-7

SWINE; ESCHERICHIA COLI; DIARRHOEA; VACCINES; IMMUNE RESPONSE; APPLICATION METHODS.

0514 BALAI PENELITIAN VETERINER. [Hog cholera (classical swine fever)]. Hog cholera/Balai Penelitian Veteriner, Bogor (Indonesia). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 2-5

SWINE FEVER; PATHOGENICITY; DIAGNOSIS.

0515 BALAI PENELITIAN VETERINER. [Production of active RIVS2 strain newcastle disease vaccines]. Produksi vaksin newcastle disease (ND) aktif galur RIVS2/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 3-5

CHICKENS; VACCINES; IMMUNE RESPONSE.

0516 BALAI PENELITIAN VETERINER. [Production of local isolate mactive newcastle disease vaccines]. Produksi vaksin newcastle disease maktif isolat lokal/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 2-3

CHICKENS; ANTIGEN ANTIBODY REACTIONS; VACCINES; IMMUNE RESPONSE.

0517 BALAI PENELITIAN VETERINER. [*Septicaemia epizootica* (SE) vaccines]. Vaksin *Septicaemia epizootica* (SE)/Balai Penelitian Veteriner, Bogor (Indonesia). Kelti Virologi. Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(2) p. 12-13

SEPTICAEMIA; VACCINES; IMMUNE RESPONSE.

0518 GINTING, S.P. Effects of supplement and anthelmintic treatments on parasite establishment and the performances of lambs artificially infected with *Haemonchus contortus*. Pengaruh

pemberian suplemen dan obat cacing terhadap perkembangan parasit cacing dan kinerja domba yang diinfeksi buatan dengan *Haemonchus contortus*/Ginting, S.P. (Assessment Institute for Agricultural Technology, Medan (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 117-123 6 tables; 17 ref. Summaries (En, In)

LAMBS; SUPPLEMENTS;
ANTHELMINTICS; HAEMONCHUS
CONTORTUS.

0519 ISKANDAR, T. The isolations of *Toxoplasma gondii* from diaphragm of a sheep having high antibody titre and faecal-soil of a cat. Pengisolasian *Toxoplasma gondii* dari otot diafragma seekor domba yang mengandung titer antibodi tinggi dan tanah-tinja dari seekor kucing/Iskandar, T. (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 111-116 3 ill.; 3 tables; 26 ref. Summaries (En, In)

SHEEP; TOXOPLASMA GONDII;
TOXOPLASMOSIS; CYSTS; ISOLATION
TECHNIQUES.

0520 ISTIANA. The resistance of *Salmonella spp.* isolates from Alabio duck against several antibiotics. Resistensi *Salmonella spp.* isolat itik Alabio terhadap beberapa antibiotika/Istiana (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Banjarbaru (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 106-110 1 ill., 2 tables. Summaries (En, In)

DUCKS; SALMONELLA; ANTIBIOTICS;
RESISTANCE TO CHEMICALS.

0521 NATALIA, L. [*Septicaemia epizootica* control of cattle and buffalo in Indonesia]. Pengendalian penyakit *Septicaemia epizootica* pada sapi dan kerbau di Indonesia/Natalia, L.; Priadi, A. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan,

Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 85-93 27 ref. Summary (In)

CATTLE; WATER BUFFALOES;
SEPTICAEMIA; DISEASE CONTROL;
INDONESIA.

0522 ROZA, D. Utilization of fungicides on mangrove crab (*Scylla serrata* Forskal) spawner during egg incubation to prevent *Lagenidium spp.* infection of their larvae. Penggunaan berbagai fungisida pada induk kepiting bakau (*Scylla serrata* Forskal) pada masa pengeraman telur untuk mencegah infeksi *Lagenidium spp.* terhadap larvanya/Roza, D.; Johny, F. (Loka Penelitian Perikanan Pantai Gondol, Bali (Indonesia)). Jurnal Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 58-63 3 tables; 16 ref. Summaries (En, In)

SCYLLA; LAGENIDIUM; OVA; HATCHING;
FUNGICIDES; PATHOGENICITY.

0523 SADI, S. The effect of animal feed from irradiated palm oil sludge on antibody forming of mice. Pengaruh pakan sludge kelapa sawit iradiasi pada pembentuk antibodi mencit/Sadi, S.; Umar, J.M.; Hasibuan, A.P.M.; Indrawatmi, M. (Pusat Aplikasi Isotop dan Radiasi, Jakarta (Indonesia)). Majalah Batan (Indonesia) ISSN 0303-2876 (1998) v. 31(3/4) p. 45-54 5 ill., 12 ref. Summaries (En, In)

MICE; ANTIBODIES; ANIMAL FEEDING;
PALM OILS; IRRADIATED FOODS;
INDUSTRIAL WASTES.

0524 SENDOW, I. Japanese encephalitis: a zoonotic disease that need attention. Japanese encephalitis: suatu penyakit zoonosis yang perlu mendapat perhatian/Sendow, I. (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Penelitian & Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (1999) v. 18(1) p. 1-9 1 ill., 1 table; Bibl. Summaries (En, In)

JAPANESE ENCEPHALITIS VIRUS;
DIAGNOSIS; HOSTS; VECTORS; DISEASE
CONTROL; INDONESIA.

0525 SUHARDONO. [Strategy of integrated Fasciolosis control by *Fasciola gigantica* on animal rearing in farm land using irrigation intensive system]. Strategi penanggulangan Fasciolosis oleh *Fasciola gigantica* secara terpadu pada ternak yang dipelihara di lahan pertanian dengan sistem irigasi intensif/ Suhardono; Widjajanti, S.; Partoutomo, S. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 122-135 3 ill., Bibliography. p. 132-135 Summary (In)

CATTLE; WATER BUFFALOES; REARING TECHNIQUES; FASCIOLASIS; DISEASE CONTROL; INTEGRATED CONTROL; IRRIGATED FARMING.

0526 WASITO. [Controlling of *Oxyspirura mansoni* infection of native chicken by rearing and medicinal treatment]. Upaya penanganan infeksi cacing mata ayam buras melalui pemeliharaan dan pengobatan/Wasito (Balai Pengkajian Teknologi Pertanian, Gedong Johor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 94-103 2 tables; 15 ref. Summary (In)

CHICKENS; THELAZIIDAE; ANIMAL DISEASES; DISEASE CONTROL; POULTRY REARING.

0527 WIEDOSARI, E. Pathology and clinicopathology of buffalo against trickle infection with *Fasciola gigantica*. Gambaran patologi dan klinikopatologi kerbau yang diinfeksi berulang dengan *Fasciola gigantica*/ Wiedosari, E. (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1997) v. 3(2) p. 135-142 2 ill., 25 ref. Summaries (En, In)

WATER BUFFALOES; FASCIOLA GIGANTICA; INFECTION; DISEASE RESISTANCE; CLINICAL TRIALS.

L74 MISCELLANEOUS ANIMAL DISORDERS / KELAINAN YANG BUKAN DISEBABKAN OLEH HAMA DAN PENYAKIT PADA HEWAN

0528 INDRANINGSIH. [Identification of organofosfat pesticide poisoned group of ruminant]. Pengenalan keracunan pestisida golongan organofosfat pada ruminansia/ Indraningsih (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 104-109 16 ref. Summary (In)

RUMINANTS; PESTICIDES; POISONING; DIAGNOSIS.

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

0529 ANON. [Spawning and rearing of *Epinephelus microdon*]. Pemijahan dan pemeliharaan larva ikan kerapu batik (*Epinephelus microdon*)/Anon. LOLITKANTA Newsletter (Indonesia) (1999) (no. 12) p. 1-3 1 ill., 1 table

EPINEPHELUS MICRODON; AQUACULTURE; OVIPOSITION; GROWTH.

0530 DAHURI, R. Research requirement supporting the implementation of coastal and marine resources. Kebutuhan riset untuk mendukung implementasi pengelolaan sumberdaya pesisir dan lautan secara terpadu/Dahuri, R. (Institut Pertanian Bogor (Indonesia)). Pusat Kajian Sumberdaya Pesisir dan Lautan. Jurnal Pesisir dan Lautan (Indonesia) ISSN 1410-7821 (1998) v. 1(2) p. 53-65 3 ill., 18 ref. Summaries (En, In)

INDONESIA; COASTAL LAGOONS; MARINE RESOURCES; RESOURCE MANAGEMENT; SUSTAINABILITY; BIODIVERSITY.

0531 GINTING, S.P. Conflict of fishery resources management in North Sulawesi (Indonesia). Konflik pengelolaan sumberdaya kelautan di Sulawesi Utara dapat mengancam kelestarian pemanfaatannya/Ginting, S.P. (Direktorat Jenderal Pembangunan Daerah, Jakarta (Indonesia)). *Jurnal Pesisir dan Lautan (Indonesia)* ISSN 1410-7821 (1998) v. 1(2) p. 30-43 2 tables; 30 ref. Summaries (En, In)

SULAWESI; COASTAL LAGOONS; RESOURCE MANAGEMENT; COMMON LANDS; PUBLIC OWNERSHIP; COOWNERSHIP; SOCIAL UNREST; STATE INTERVENTION.

0532 THORBURN, C.C. Sasi Lola (*Trochus niloticus*) in the Kei Islands, Moluccas: an endangered coastal resource management tradition (Indonesia)/Thorburn, C.C. (University of California, Los Angeles (United States of America)). Department of Geography. *Jurnal Pesisir dan Lautan (Indonesia)* ISSN 1410-7821 (1998) v. 1(2) p. 15-29 1 ill., 22 ref. Summaries (En, In)

TOP SHELLS; CORAL REEFS; ENDANGERED SPECIES; RESOURCE CONSERVATION; FISHING GROUNDS; TRADITIONAL TECHNOLOGY; MALUKU.

M11 FISHERIES PRODUCTION / PRODUKSI PERIKANAN

0533 ANDAMARI, R. Development stage, aging and natural mortality of anchovy eggs (*Encrasicholina* species) from Bacan/Andamari, R. (Ambon Assessment Institute of Agricultural Technology, Ambon (Indonesia)); Milton, D.A.; Susanto, A.N.. *Indonesian Fisheries Research Journal (Indonesia)* ISSN 0853-8980 (1998) v. 4(2) p. 52-57 4 ill., 1 table; 10 ref. Summary (En)

ANCHOVIES; DEVELOPMENTAL STAGES; AGING; MORTALITY; BIOMASS.

0534 BADRUDIN. Spatial distribution of pelagic fish biomass in the waters of Lombok Strait (Indonesia). Sebaran spasial biomassa ikan pelagis di perairan Selat Lombok/Badrudin (Balai Penelitian Perikanan Laut, Jakarta (Indonesia)); Radiarta, I.N.; Amin, E.M. *Jurnal Penelitian Perikanan Indonesia (Indonesia)* ISSN 0853-5884 (1999) v. 5(1) p. 1-6 2 ill., 1 table; 8 ref. Summaries (En, In)

SALTWATER FISHES; PELAGIC FISHERIES; BIOMASS; SPATIAL DISTRIBUTION; FISHERY DATA; BALI.

0535 BAHAR, S. Southern bluefin tuna (*SBT: Thunnus maccoyii*) longline fishery: an estimation of the landed and exported from Bali 1993-1996. Perikanan rawai tuna untuk menangkap tuna sirip biru selatan (*Thunnus maccoyii*) serta estimasi total pendaratan dan ekspornya dari Bali 1993-1996/Bahar, S.; Naamin, N. (Balai Penelitian Perikanan Laut, Jakarta (Indonesia)). *Jurnal Penelitian Perikanan Indonesia (Indonesia)* ISSN 0853-5884 (1999) v. 5(1) p. 69-77 1 ill., 6 tables, 6 ref. Summaries (En, In)

THUNNUS; FISHING AREAS; FISHING VESSELS; EXPORTS; IMPORTS; FISHERY DATA.

0536 KARTAMIHARDJA, E.S. Fish population characteristics in Lake Tondano, North Sulawesi (Indonesia). Karakteristik populasi ikan di Danau Tondano, Sulawesi Utara/Kartamihardja, E.S.; Satria, H.; Sarnita, A.S. (Balai Penelitian Perikanan Air Tawar, Bogor (Indonesia)). *Jurnal Penelitian Perikanan Indonesia (Indonesia)* ISSN 0853-5884 (1999) v. 5(1) p. 7-19 4 ill., 7 tables, 17 ref. Summaries (En, In)

FRESHWATER FISHES; POPULATION DISTRIBUTION; LAKE FISHERIES; GILLNETS; OVIPOSITION; FEEDING HABITS; REPRODUCTION; FISH CULTURE.

0537 MILTON, D.A. The biomass of tropical anchovies (*Encrasicholina* species) at Bacan, Eastern Indonesia estimated by the daily egg production method/Milton, D.A. (CSIRO Division of Marine Research (Australia));

Andamari, R.; Rawlinson, N.J.F. Indonesian Fisheries Research Journal (Indonesia) ISSN 0853-8980 (1998) v. 4(2) p. 58-65 4 ill., 2 tables; 17 ref. Summary (En)

ANCHOVIES; BIOMASS; EGG PRODUCTION; FISHING METHODS; SUSTAINABILITY.

0538 NAAMIN, N. Tuna baitfish and the pole-and-line fishery in eastern Indonesia: an overview/Naamin, N.; Gafa, B. (Research Institute for Marine Fisheries, Jakarta (Indonesia)). Indonesian Fisheries Research Journal (Indonesia) ISSN 0853-8980 (1998) v. 4(2) p. 16-24 3 tables; 26 ref. Summary (En)

TUNA; ANGLING; LINE FISHING; FISHERY DATA; FISHING VESSELS. BAITFISH.

0539 RAWLINSON, N.J.F. Changes in fishing efficiency of the pole-and-line skipjack tuna fleet based at Sorong, Irian Jaya, Indonesia/Rawlinson, N.J.F. (Australian Maritime College (Australia). Faculty of Fisheries and Marine Environment); Iskandar, B.; Milton, D.A.; Gafa, B.. Indonesian Fisheries Research Journal (Indonesia) ISSN 0853-8980 (1998) v. 4(2) p. 25-40 13 ill., 6 tables; 6 ref. Summary (En)

TUNA; FISHING METHODS; FISHERY DATA; FISHING VESSELS; IRIAN JAYA. BAITFISH.

0540 SAMUEL. Biolimnological study on tin mining pools in the islands of Bangka and Belitung for aquaculture (Indonesia). Penelitian biolimnologi sumberdaya perairan baru bekas tambang timah di Pulau Bangka dan Belitung untuk budidaya ikan/Samuel; Said, A.; Aida, S.N. (Loka Perikanan Air Tawar, Palembang (Indonesia)). Jurnal Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 20-30 1 ill., 8 tables, 10 ref. Summaries (En, In)

SUMATRA; WATER RESOURCES; FISH PONDS; FISH FARMS; SOIL CHEMICOPHYSICAL PROPERTIES; LIMNOLOGY.

0541 UTOJO. Study on ecobiology of grouper in west coastal waters of South Sulawesi (Indonesia). Studi bioekologi ikan kerapu di perairan pantai barat Sulawesi Selatan/Utojo; Tonnek, S.; Suharyanto; Pirzan, A.M. (Balai Penelitian Perikanan Pantai (Indonesia)). Jurnal Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 31-37 4 tables, 14 ref. Summaries (En, In)

GROUPERS; HABITATS; FEEDING HABITS; COASTAL WATERS; SULAWESI.

M12 AQUACULTURE PRODUCTION AND MANAGEMENT / PRODUKSI DAN PENGELOLAAN BUDIDAYA PERAIRAN

0542 DJAJASEWAKA, H. Optimum dietary protein requirement of eel (*Anguilla bicolor*). Kebutuhan protein optimal pada pakan benih ikan sidat (*Anguilla bicolor*)/Djajasewaka, H.; Tahapari, E. (Balai Penelitian Air Tawar, Sukamandi (Indonesia)). Jurnal Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 64-68 3 tables, 10 ref. Summaries (En, In)

ANGUILLA (GENUS); PROXIMATE COMPOSITION; PROTEIN CONCENTRATES; GROWTH; FISH FEEDING; NUTRITIVE VALUE.

0543 GIRI, N.A. Effect of dietary vitamin A on gonadal maturation of pond reared tiger prawn, *Penaeus monodon*. Pengaruh vitamin A dalam pakan terhadap perkembangan gonad induk udang windu (*Penaeus monodon*) asal tambak/Giri, N.A.; Marzuqi, M.; Lante, S.; Suwirya, K.; Tsumura, S. (Loka Penelitian Perikanan Pantai Gondol, Bali (Indonesia)). Jurnal Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 78-84 5 tables; 15 ref. Summaries (En, In). Appendix

PENAEUS MONODON; PROXIMATE COMPOSITION; RETINOL; FISH FEEDING.

0544 KARTAMIHARDJA, E.S. Analysis of waste sedimentation rate, chemical composition of the sediment and nitrification rate of Nitrosomonas bacteria as a basic information for

water quality restoration in floating cage culture. Analisis laju sedimentasi, unsur hara sedimen dan uji kemampuan nitrifikasi bakteri *Nitrosomonas* sebagai data dasar untuk restorasi kualitas air pada budidaya keramba jaring apung /Kartamihardja, E.S.; Supriyadi, H. (Balai Penelitian Perikanan Air Tawar, Sukamandi (Indonesia)). *Jurnal Penelitian Perikanan Indonesia* (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 45-51 2 ill., 3 tables, 10 ref. Summaries (En, In)

FRESHWATER FISHES; CAGE CULTURE; SEDIMENTATION; WASTES; NITRIFICATION; NITROSOMONAS; CHEMICAL COMPOSITION; WATER RESERVOIRS; JAVA.

0545 MUHAMMAD, S. Population dynamics of threadfin (*Nemipterus spp.*) in Madura strait [(Indonesia)] and its management alternative: a study on selectivity difference of danise seine. Dinamika populasi ikan kurisi (*Nemipterus spp.*) di Selat Madura dan alternatif pengelolannya: suatu studi terhadap perbedaan selektivitas alat tangkap cantrang/Muhammad, S. [et al.] (Universitas Brawijaya, Malang (Indonesia). Fakultas Perikanan). Malang (Indonesia): Universitas Brawijaya, 1999 85 p. 6 ill., 5 tables; 17 ref.

THREADFINS; FISHERY MANAGEMENT; POPULATION DYNAMICS; FISHERY DATA; FISHING NETS; SELECTION; DECISION MAKING; EQUIPMENT; JAVA.

0546 RUKYANI, A. . Application of Lipopolysaccharide (LPS) to control diseases on culture of shrimp (*Penaeus monodon* Fab.): a final report. Penggunaan Lipopolisakarida untuk menanggulangi masalah penyakit pada usaha budidaya udang windu (*Penaeus monodon* Fab.): laporan akhir/Rukyani, A.; Cholik, F.; Sunarto, A. (Balai Penelitian Perikanan Air Tawar, Bogor (Indonesia)) . Bogor (Indonesia): Balitkawar, 1999 30 p. 4 ill., 4 tables, 21 ref.

PENAEUS MONODON; SHELLFISH CULTURE; DISEASE CONTROL; LIPOPOLYSACCHARIDES.

0547 SAID, A. The culture of jelawat fish (*Leptobarbus hoeveni* Blkr) in open waters.

Budidaya ikan jelawat (*Leptobarbus hoeveni* Blkr) di perairan umum/Said, A. (Loka Penelitian Perikanan Air Tawar Palembang (Indonesia)). *Jurnal Penelitian & Pengembangan Pertanian* (Indonesia) ISSN 0216-4418 (1999) v. 18(1) p. 23-28 7 tables; 15 ref. Summaries (En, In)

LEPTOBARBUS HOEVENI; FISH CULTURE; FISH FARMS; OVIPOSITION; YIELDS; COST BENEFIT ANALYSIS.

0548 SUNARNO, M.T.D. [Feed additive contribution on *Puntius gonionotus* growth]. Kontribusi pakan tambahan terhadap pertumbuhan ikan tawes/Sunarno, M.T.D. (Balai Penelitian Perikanan Air Tawar, Sukamandi (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian* (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 15-16

PUNTIUS GONIONOTUS; FEED ADDITIVE; GROWTH; POT FISHING; FERTILIZER APPLICATION; PRODUCTIVITY.

0549 SUWIRYA, K. Effect of vitamin C in the diets on survival, growth rate and stress of milkfish (*Chanos chanos*) larvae. Pengaruh vitamin C dalam pakan terhadap sintasan, pertumbuhan dan stres larva bandeng (*Chanos chanos*)/Suwirya, K.; Prijono, A.; Sediadharma, T. (Loka Penelitian Perikanan Pantai Gondol, Bali (Indonesia)). *Jurnal Penelitian Perikanan Indonesia* (Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 52-57 1 ill., 4 tables, 20 ref. Summaries (En, In)

CHANOS; PROXIMATE COMPOSITION; ASCORBIC ACID; SURVIVAL; GROWTH; LARVAE; STRESS.

M40 AQUATIC ECOLOGY / EKOLOGI PERAIRAN

0550 ADJIE, S. Biological study on belida, *Notopterus chitala* in Batanghari River Basin, Jambi Province (Indonesia). Studi biologi ikan belida (*Notopterus chitala*) di daerah Aliran Sungai Batanghari, Propinsi Jambi/Adjie, S.; Husnah; Gaffar, A.K. (Loka Penelitian Perikanan Air Tawar, Palembang (Indonesia)). *Jurnal Penelitian Perikanan Indonesia*

(Indonesia) ISSN 0853-5884 (1999) v. 5(1) p. 38-44 5 tables, 17 ref. Summaries (En, In). Appendix

NOTOPTERUS; HABITATS; FEEDING HABITS; REPRODUCTION; GROWTH; WATERSHEDS; SUMATRA.

0551 SUHARSONO. Condition of coral reef resources in Indonesia/Suharsono (Pusat Penelitian dan Pengembangan Oseanologi-LIPI, Jakarta (Indonesia)). *Jurnal Pesisir dan Lautan* (Indonesia) ISSN 1410-7821 (1998) v. 1(2) p. 44-52 1 ill., 1 table; 17 ref. Summaries (En, In)

INDONESIA; CORAL REEFS; ECOSYSTEMS; DOMINANT SPECIES; GEOGRAPHICAL DISTRIBUTION; MECHANICAL DAMAGE; ENVIRONMENTAL DEGRADATION.

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

0552 BALAI BESAR PENGEMBANGAN ALAT DAN MESIN PERTANIAN. [Rolling injection seeder engineering for corn and soybean on zero tillage cropping systems]. *Rekayasa rolling injection seeder untuk jagung dan kedelai pada sistem tanaman tanpa olah tanah/Balai Besar Pengembangan Alat dan Mesin Pertanian, Serpong* (Indonesia). *Warta Penelitian dan Pengembangan Pertanian* (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 8-10 2 ill., 2 tables

ZEA MAYS; GLICINE MAX; FARM EQUIPMENT; ENGINEERING; CROPPING SYSTEMS; APPROPRIATE TECHNOLOGY; ZERO TILLAGE.

0553 LUNTUNGAN, H.T. [Weed control equipment: rolling choper]. *Alat pengendali gulma rolling choper/Luntungan, H.T.; Herman, M.* (Loka Penelitian Pola Tanam Kelapa Pakuwon, Sukabumi (Indonesia)); Saerang, J.E.. [Modernization of coconut-based farming system] (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 519-526 4 ill., 2 tables; 3 ref. Summary (In)

COCONUTS; WEED CONTROL EQUIPMENT; PROTOTYPES; EQUIPMENT TESTING; OPERATING COSTS.

0554 SUNIHARDI. [Plant equipment rice broad casting for tidal swamp land]. *Alat tanam padi tabur benih langsung di lahan pasang surut/Sunihardi* (Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian* (Indonesia) ISSN 0126-4427 (1998) v. 20(5) p. 1-5 1 ill., 1 table

ORYZA SATIVA; EQUIPMENT; BROADCASTING; TIDES.

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

0555 HARTONO, S. . [Study on potential of villages areal at West Java and Bengkulu Provinces]. *Studi potensi wilayah pedesaan Propinsi Jawa Barat dan Bengkulu/Hartoyo, S.; Harianto; Ratnawati, A.; Nurmalina, R.; Sumardjo; Rachmina, D.; Nuryartono, N.* (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian) . Bogor (Indonesia): IPB, 1998 166 p. 7 ill., 28 tables, 21 ref.

JAVA; SUMATRA; VILLAGES; LAND SUITABILITY; LAND PRODUCTIVITY; FARM INCOME; FARMERS.

0556 SUHARDJONO, Y.R. . [Collembola, soil fauna at Bali and Lombok Islands (Indonesia)]. *Fauna Collembola tanah di Pulau Bali dan Pulau Lombok/Suhardjono, Y.R.* . Jakarta (Indonesia): UI, 1992 373 p. 67 ill., 24 tables, Bibliography p. 345-360

COLLEMBOLA; SOIL FAUNA; FREE LIVING NEMATODES; BIOLOGICAL CONTROL ARTHROPODS; BIODIVERSITY; TAXONOMY; ECOLOGY; ECOSYSTEMS; BIODEGRADATION; BIOSENSORS; BALI; NUSA TENGGARA.

**P33 SOIL CHEMISTRY AND PHYSICS /
KIMIA DAN FISIKA TANAH**

0557 LUMBANRAJA, J. Fate of potassium adsorption in a rice field with three different tillage systems treated with prill and tablet ureas. Perilaku serapan kalium pada tiga sistem olah tanah sawah dengan pemupukan urea prill dan tablet/Lumbanraja, J.; Utomo, M.; Zahir, M. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). *Jurnal Tanah Tropika (Indonesia)* ISSN 0852-257X (1997) v. 3(5) p. 29-38 1 ill., 5 tables; 30 ref. Summary (En)

IRRIGATED RICE; CONSERVATION TILLAGE; UREA; GRANULES; POTASSIUM; SOIL SORPTION.

0558 SALAM, A.K. Changes in lead and cadmium solubilities in an andisol from gisting Lampung by lime and cassava leaf compost treatments. Perubahan kelarutan timah hitam dan kadmium dalam tanah andisol dari gisting Lampung akibat penambahan kapur dan kompos daun singkong/Salam, A.K. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). *Jurnal Tanah Tropika (Indonesia)* ISSN 0852-257X (1997) v. 3(5) p. 21-28 2 ill., 1 table; 23 ref. Summary (En)

SUMATRA; LEAD; CADMIUM; ANDOSOLS; SOIL POLLUTION; SOIL TREATMENT; LIMING; COMPOSTS; CASSAVA; LEAVES; SOIL SORPTION.

0559 SUSANTO, K.S. Water balance as a basic consideration of irrigation recommendation in pineapple plantations of Terbaggi Besar, Central Lampung [Indonesia]. Neraca air sebagai bahan pertimbangan untuk penentuan irigasi pada areal kebun nenas di Terbaggi Besar Lampung Tengah/Susanto, K.S. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). *Jurnal Tanah Tropika (Indonesia)* ISSN 0852-257X (1997) v. 3(5) p. 6-10 1 ill., 3 tables; 5 ref. Summary (En)

ANANAS COMOSUS; PLANTATIONS; WATER BALANCE; IRRIGATION.

P34 SOIL BIOLOGY / BIOLOGI TANAH

0560 LUMBANRAJA, P. [Diversity of soil microorganism at four soil cultivation patterns]. Diversitas mikroba tanah pada empat pola pengolahan tanah/Lumbanraja, P. *Visi (Indonesia)* ISSN 0853-0203 (1998) v. 6(1) p. 38-51 10 tables; 16 ref. Summary (En)

SOIL ORGANISMS; BIODIVERSITY; MICROORGANISMS; SOIL CULTIVATION; ALGAE; FUNGI; SOIL RESPIRATION.

**P35 SOIL FERTILITY / KESUBURAN
TANAH**

0561 SALAM, A.K. Heavy metal factors in manufacturing and utilizing chemical fertilizers for agriculture. Faktor logam berat dalam pembuatan dan pemanfaatan pupuk kimia untuk pertanian/Salam, A.K. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.) *Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia)*. Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 103-111 1 ill., 3 tables; 40 ref. Summary (En)

AGRICULTURE; FERTILIZERS; HEAVY METALS.

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

0562 RAHIM, S.E. [Need of integrate soil conservation and fertilizers policy on sustainable agribusiness]. Perlunya pengintegrasian kebijakan konservasi tanah dan pemupukan dalam agribisnis berkelanjutan/Rahim, S.E. (Universitas Sriwijaya, Palembang (Indonesia). Fakultas Pertanian). [Proceeding of national seminar on the identification of national fertilizer problems and effective quality standardization]. Prosiding seminar nasional

identifikasi masalah pupuk nasional dan standardisasi mutu yang efektif/Lumbanraja, J.; Dermiyati; Yuwono, S.B.; Sarno; Afandi; Niswati, A.; Yusnaini, S.; Syam, T.; Erwanto (eds.). Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung (Indonesia). Bandar Lampung (Indonesia): Himpunan Ilmu Tanah Indonesia (HITI) KOMDA Lampung, 1997 p. 32-35 2 tables; 10 ref. Summary (En)

FERTILIZERS; SOIL CONSERVATION; LAND MANAGEMENT; SUSTAINABILITY; EROSION.

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

0563 ALLORERUNG, D. [Opportunity of integrated coconut processing development on rural scale]. Kemungkinan pengembangan pengolahan buah kelapa secara terpadu skala pedesaan/Allorerung, D.; Lay, A. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 327-341 3 tables; 3 ref. Summary (In)

COCONUTS; PROCESSING; WASTE UTILIZATION; COST BENEFIT ANALYSIS; LABOUR REQUIREMENTS.

Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN MAKANAN

0564 ATMAWINATA, O. [Nata processing from cocoa pulp]. Pembuatan nata dari pulpa kakao/Atmawinata, O.; Sulistyawati; Mulato, S.; Yusianto (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 9) 7 p. 2 ill., 8 ref.

COCOA BEANS; FOOD PROCESSING; BYPRODUCTS; WASTES; PULP; EQUIPMENT; FOOD ADDITIVES; COSTS.

0565 ATMAWINATA, O. [Processing of cacao beans]. Pengolahan kakao/Atmawinata, O.; Mulato, S.; Yusianto (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 9) 39 p. 2 ill., 10 tables; 28 ref.

COCOA BEANS; FOOD PROCESSING; HARVESTING; FERMENTATION; QUALITY; GRADING; STORAGE; EQUIPMENT.

0566 ENIE, A.B. [Increasing of thermal energy efficiency on coconut oil industries by hot oil immersion drying (HOID)]. Peningkatan efisiensi energi termal dalam industri minyak kelapa cara penggorengan (HOID)/Enie, A.B.; Setiawan, Y.Y.; Junaidi, L.; Supriatna, D. (Balai Besar Litbang Industri Hasil Pertanian, Bogor (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 351-364 7 ill., 3 tables; 6 ref. Summary (In)

COCONUT OIL; FRYING; THERMAL ENERGY; THERMAL ANALYSIS; COPRA; FOOD INDUSTRY EQUIPMENT; COST ANALYSIS.

0567 GHABAN, L. [Processing of coconut sugar and nata de coco at farmer scales]. Pengolahan gula dan sari kelapa skala kelompok tani/Ghaban, L.; Maesuri (Direktorat Jendral Perkebunan, Jakarta (Indonesia)); Rumini, W. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 383-397 5 tables; 2 ref. Summary (In).

COCONUTS; SUGAR; FARMERS ASSOCIATIONS; ECONOMIC ANALYSIS.

0568 INDRASTI, N.S. The use of pectin from cocoa pod as edible coating: a final report. Penggunaan pektin dari pod coklat sebagai

bahan edible coating: laporan akhir/Indrasti, N.S. (Institut Pertanian Bogor (Indonesia)); Yuliani, S.; Yuliasih, I.; Permatasari, C. Bogor (Indonesia): IPB, 1999 118 p. 17 ill., 6 tables, Bibliography p. 56-59; Appendices

TOMATOES; COCOA HUSKS; FOODS; PRESERVATION; EDIBLE FILMS; PECTINS; KEEPING QUALITY.

0569 JENIE, B.S.L. Production of red pigment concentrate and powder of *Monascus purpureus* and its stability during storage. Produksi konsentrat dan bubuk pigmen angkak dari *Monascus purpureus* serta stabilitasnya selama penyimpanan/Jenie, B.S.L.; Fardiaz, S. (Institut Pertanian Bogor (Indonesia)); Mitrajanty, K.D.. Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 39-46 11 ill., 9 ref. Summary (En)

MONASCUS PURPUREUS; PIGMENTS; TAPIOCA; INDUSTRIAL WASTES; FERMENTATION.

0570 LAY, A. [Diversification, processing of main and byproducts of coconut]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping kelapa/Lay, A.; Allorerung, D.; Warokka, J.S. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 6) 22 p. 3 tables; 18 ref.

COCONUTS; PROCESSED PLANT PRODUCTS; BYPRODUCTS; PROCESSING; COST BENEFIT ANALYSIS; EXPORTS.

0571 NURTAMA, B. [Supplementation of fish on extruded snack food from rice]. Suplementasi ikan pada makanan ringan produk ekstrusi dengan bahan dasar beras/Nurtama, B. (Institut Pertanian Bogor (Indonesia)); Sulistyani, Y.. Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 32-38 8 ill., 2 tables; 9 ref. Summary (En)

SNACK FOODS; FISH; SUPPLEMENTS; RICE; CARBOHYDRATE CONTENT; ANIMAL PROTEIN; PROTEIN CONTENT.

0572 PARDEDE, E. [Food safety preserved by irradiation]. Keamanan pangan yang diawetkan dengan irradiasi/Pardede, E. Visi (Indonesia) ISSN 0853-0203 (1998) v. 6(1) p. 15-29 3 tables; 16 ref. Summary (En)

FOOD SAFETY; PRESERVATION; IRRADIATION; TOXICITY; NUTRITIONAL LOSSES.

0573 PURNOMO, E. [Experienced of smallholder sugar cane processing taken from sugar cane plantation which fertilized with Sipramin]. Pengalaman mengolah gula merah rakyat dari tebu yang dipupuk Sipramin/Purnomo, E.; Bachtiar, A. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Proceedings of the seminar on research/assessment findings of Sipramin fertilizer application]. Prosiding seminar hasil penelitian/pengkajian penggunaan pupuk Sipramin/Sofyan, A.; Sugiarto, A.; Kasiyadi, F. (eds.) Balai Pengkajian Teknologi Pertanian, Karangploso (Indonesia). Malang (Indonesia): BPTP, 1999 p. 182-192. Prosiding BPTP Karangploso (Indonesia) ISSN 14100-9905 (no. 2) 3 tables; 8 ref. Summary (In)

SUGAR CANE; SUGAR INDUSTRY; FERTILIZER APPLICATION; APPLICATION RATES; SWEETENERS; QUALITY.

0574 PUSAT PENELITIAN KELAPA SAWIT. [Diversification, processing of main and byproduct of oil palm]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping kelapa sawit/Pusat Penelitian Kelapa Sawit, Medan (Indonesia). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 5) 15 p. 9 tables

OIL PALMS; PROCESSED PLANT PRODUCTS; BYPRODUCTS; CHEMICO-PHYSICAL PROPERTIES; CHEMICAL COMPOSITION; PROCESSING.

0575 PUSAT PENELITIAN KOPI DAN KAKAO. [Diversification, processing and byproducts of coffee and cacao products]. Diversifikasi hasil, pengolahan hasil utama dan

hasil samping kopi dan kakao/Pusat Penelitian Kopi dan Kakao, Jember (Indonesia). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 9) p. 1-47 3 ill., 7 tables; 23 ref.

COFFEE BEANS; COCOA BEANS; FOOD PROCESSING; ORGANOLEPTIC PROPERTIES; QUALITY; STORAGE; EQUIPMENT; PACKAGING; FERMENTATION; GRADING; DRYING; HUSKING; PULPING; RIPENING.

0576 SAHID, M. [Product diversification, main product and byproduct processing of kapok]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping kapok/Sahid, M. (Balai Penelitian Tanaman Serat, Malang (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 13) 15 p. 4 ill., 4 tables

KAPOK; BYPRODUCTS; HARVESTING; MARKETING CHANNELS; PROCESSING; COST BENEFIT ANALYSIS.

0577 SUNIHARDI. [Prospect of sweet potatoes flour]. Prospek tepung ubi jalar/Sunihardi (Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 5-6 3 tables

SWEET POTATOES; FLOURS; PRICES; RAW MATERIALS; FOOD PROCESSING.

0578 SURYATMO, F.A. [Product diversification, main product and byproduct of tea]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping teh/Suryatmo, F.A. (Pusat Penelitian Teh dan Kina Gambung (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 12) 12 p. 3 tables; 18 ref. Appendices

TEA; POSTHARVEST TECHNOLOGY; PROCESSING; PACKAGING; QUALITY; ORGANOLEPTIC ANALYSIS; BY-PRODUCTS; COST ANALYSIS.

0579 TOWAHA, J. [Problems and solution of nata de coco development]. Masalah dan solusi pengembangan sari kelapa (nata de coco)/Towaha, J.; Manoi, F.; Saefudin (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 559-565 10 ref. Summary (In)

NUT PRODUCTS; FOOD TECHNOLOGY; MARKETING.

0580 WASPODO, M. [Banana flour production supporting agroindustrial sector]. Prospek tepung sebagai upaya pemanfaatan pisang untuk mendukung agroindustri/Waspodo, M. (Balai Penelitian Tanaman Hias, Jakarta (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (1998) v. 20(6) p. 2-3 1 ill., 1 table

BANANAS; FOOD PROCESSING; USES; FLOURS; STORAGE; AGROINDUSTRIAL SECTOR.

0581 WIBOWO, P. Production and economic aspects of kremes traditional snack food: a case study/Wibowo, P.; Indrasari, S.D.; Santosa, B.A.S. (Balai Penelitian Padi, Sukamandi (Indonesia)); Wheatley, C.C.; Prain, G. Indonesian Journal of Tropical Agriculture (Indonesia) ISSN 0852-5927 (1996) v. 7(2) p. 47-50

SWEET POTATOES; SNACK FOODS; PRODUCTION ECONOMICS; FOOD PROCESSING; NUTRITIVE VALUE; COSTS.

0582 WINARTI, C. [Improvement and increasing of nata de coco on farmer level]. Perbaikan dan peningkatan mutu sari kelapa (nata de coco) di tingkat petani/Winarti, C. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)); Rumini, W. [Modernization

of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 614-621 3 tables; 14 ref. Summary (In)

COCONUTS; WASTE UTILIZATION; FOOD TECHNOLOGY; STARTER CULTURES.

0583 WINARTI, C. [Improvement of coconut sugar processing in Kajang, Bulukumba, South Sulawesi (Indonesia)]. Perbaikan pengolahan gula kelapa di Kecamatan Kajang, Kabupaten Bulukumba, Propinsi Sulawesi Selatan/Winarti, C.; Supriatna, A.; Effendi, D.S.; Karmawati, E. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)); Rumini, W.; Manoi, F. [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 622-630 2 ill., 1 table; 12 ref. Summary (In)

COCONUTS; PROCESSING AIDS; FOOD INDUSTRY EQUIPMENT; QUALITY; MARKETING CHANNELS.

0584 YASNI, S. Active component extraction of Kusambi's bark (*Schleichera oleosa* Merr.) and its ability to prevent nira fermentation. Ekstraksi komponen aktif kulit kayu Kusambi (*Schleichera oleosa* Merr.) dan daya hambatnya terhadap kerusakan nira/Yasni, S.; Suliantari (Institut Pertanian Bogor (Indonesia)); Fenta. Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 14-23 8 ill., 2 tables; 9 ref. Summary (En)

SCHLEICHERA OLEOSA; EXTRACT WOOD PALMAE; CARYOTA URENS; ALCOHOL CONTENT; FERMENTATION; CONTAMINATION.

Q03 FOOD CONTAMINATION AND TOXICOLOGY / KONTAMINASI DAN TOKSIKOLOGI PANGAN

0585 MURDIATI, T.B. [Detection technique of antibiotic residues in animal products]. Teknik

deteksi residu antibiotika dalam produk peternakan/Murdiati, T.B. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on the national seminar of animal husbandry and veterinary: book 1]. Prosiding seminar nasional peternakan dan veteriner: buku 1/Kusnadi, U. [et al.] (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 136-145 2 tables; 32 ref. Summary (In)

ANIMAL PRODUCTION; MICROBIOLOGY; ANTIBIOTICS; RESIDUES.

Q05 FOOD ADDITIVES / ZAT TAMBAHAN PADA PANGAN

0586 AHZA, A.B. Microencapsulation of lime's (*Citrus aurantifolia* Swingle.) peel extract and juice mixture, and its tea bag application. Mikroenkapsulasi campuran ekstrak kulit dan buah jeruk nipis (*Citrus aurantifolia* Swingle.) serta aplikasinya pada teh celup/Ahza, A.B. (Institut Pertanian Bogor (Indonesia)); Slamet, A.H. Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 7-18 6 ill., 9 ref. Summary (En)

CITRUS AURANTIFOLIA; FRUIT JUICES; TEA; FLAVOUR; FOOD ADDITIVES; FRUIT; PLANT EXTRACTS.

0587 TIMOTIUS, K.H. The effect of zinc on the biomass and pigments formation by *Monascus purpureus* UKSW40 in the soybean soaking water containing medium. Pengaruh Zn terhadap pembentukan biomassa dan pigmen oleh *Monascus purpureus* UKSW40 pada medium yang mengandung air rendaman kedelai/Timotius, K.H.; Utomo, O.R. (Universitas Kristen Satya Wacana, Salatiga (Indonesia). Fakultas Sains dan Matematika) Buletin Teknologi & Industri Pangan (Indonesia) ISSN 0216-2318 (1997) v. 8(2) p. 1-6 8 ill., 11 ref. Summary (En)

SOYBEANS; MONASCUS PURPUREUS; ZINC; BIOMASS; FERMENTATION; GLUCOSE; PIGMENTS.

Q60 PROCESSING OF NON-FOOD OR NON-FEED AGRICULTURAL PRODUCTS / PENGOLAHAN HASIL PERTANIAN NON-PANGAN DAN NON-PAKAN

0588 ROHMATUSSOLIHAT. [Biopolymer: plastics made from crops]. Biopolimer: plastik dari tanaman/Rohmatussolihat. *Warta Biotek* (Indonesia) ISSN 0215-2835 (Mar-Jun 1999) v. 13(1-2) p. 22-24

POTATOES; PLASTICS; BIOPOLYMERS.

0589 RUMOKOI, M.M.M. [Opportunity of coconut fibre utilization as geotextile raw materials]. Peluang pemanfaatan sabut sebagai bahan baku geotekstil/Rumokoi, M.M.M. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Modernization of coconut-based farming system]. Modernisasi usaha pertanian berbasis kelapa/Wahid, P. [et al.] (eds.) Pusat Penelitian dan Pengembangan Tanaman Industri, Bogor (Indonesia). Bogor (Indonesia): Puslitbangtri, 1998 p. 342-350 1 ill., 2 tables; 7 ref. Summary (In)

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0590 RUSLI, S. [Product diversification, main product and byproduct processing of volatile oil]. Diversifikasi hasil, pengolahan hasil utama dan hasil samping tanaman minyak atsiri/Rusli, S.; Hernani (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of meeting committee of agricultural research on plantation sector]. Kumpulan makalah dari pertemuan komisi penelitian pertanian bidang perkebunan/. Bogor (Indonesia): Puslitbangtri, 1998 (pt. 14) 14 p. 3 tables

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0591 SISWANTO. Extraction of protein from the inner and outer surface of medical gloves with successive washing technique. Ekstraksi protein dari permukaan luar dan dalam sarung tangan medis dengan teknik pencucian

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ALLERGENS; WASHING; ELECTROPHORESIS.

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ABSIDIA; PALM OILS; CULTURE MEDIA; POLYUNSATURATED FATTY ACIDS.

Q80 PACKAGING / PENGEPAKAN PRODUK INDUSTRI HASIL PERTANIAN, PETERNAKAN, PERIKANAN DAN KEHUTANAN

0593 WINARSIH, S. Effect of the packing methods on viability of banana c.v. Giant cavendish plantlets. Pengaruh beberapa teknik pengemasan terhadap daya hidup planlet pisang Giant cavendish/Winarsih, S.; Priyono; Atmawinata, O. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). *Jurnal Hortikultura* (Indonesia) ISSN 0853-7097 (1999) v. 8(4) p. 1293-1298 3 tables; 12 ref. Summaries (En, In)

MUSA (BANANAS); VITRO PLANTS; PACKAGING; VIABILITY.

T01 POLLUTION / POLUSI

0594 ARDIANSYAH. [Phytoremediation using crops for pollution cleaner]. Fitoremediasi: menggunakan tanaman untuk membersihkan polusi/Ardiansyah; Siregar, E.M.R. *Warta Biotek* (Indonesia) ISSN 0215-2835 (Mar-Jun 1999) v. 13(1-2) p. 14-15

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PESTICIDE CROPS; PESTICIDES; TOXICITY; BIOTA; PHOTOSYNTHESIS; PHYTOPLANKTON; STORAGE; SEA POLLUTION.

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CROPS; HEAVY METALS; INDUSTRIAL WASTES; SOIL TREATMENT; LIMING; COMPOSTS; CASSAVA; LEAVES; SOIL CHEMICOPHYSICAL PROPERTIES.

0598 SARDJONO. [Food polluted by fungi: its prevention and emergence potential]. Pencemaran pangan oleh jamur, potensi bahaya dan pencegahannya/Sardjono (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian). AGRITECH (Indonesia) ISSN 0216-0455 (1998) v. 18(2) p. 23-27 14 ref.

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0599 TERANGNA, N. [Estimate of support capacity of organic pollution load in Ciujung river, West Java (Indonesia)]. Perkiraan daya dukung beban pencemaran organik pada sungai Ciujung/Terangna, N. (Pusat Penelitian dan Pengembangan Pengairan, Bandung (Indonesia)); Jursal. Buletin Pusair (Indonesia) ISSN 0852-5919 (1999) v. 8(31) p. 1-8 6 ill., 4 tables; 11 ref. Summary (En)

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