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Kata Pengantar

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

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

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

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

Bogor, 2002

Kepala Pusat Perpustakaan dan
Penyebaran Teknologi Pertanian

DAFTAR ISI

	Halaman
A00 PERTANIAN SECARA UMUM	
A01 PERTANIAN - ASPEK UMUM	1
A50 PENELITIAN PERTANIAN	1
C00 PENDIDIKAN, PENYULUHAN DAN INFORMASI	
C20 PENYULUHAN DAN KOMUNIKASI	1
C30 DOKUMENTASI DAN INFORMASI	1
E00 EKONOMI PERTANIAN, PEMBANGUNAN DAN SOSIOLOGI PEDESAAN	
E10 EKONOMI DAN KEBIJAKSANAAN NASIONAL MENGENAI PERTANIAN.....	2
E11 EKONOMI DAN KEBIJAKSANAAN NASIONAL MENGENAI LAHAN	4
E12 TENAGA KERJA DAN KESEMPATAN KERJA	6
E13 INVESTASI, KEUANGAN DAN KREDIT	6
E14 EKONOMI DAN KEBIJAKSANAAN PEMBANGUNAN.....	6
E16 EKONOMI PRODUKSI	8
E20 ORGANISASI, ADMINISTRASI DAN PENGELOLAAN PERUSAHAAN PERTANIAN / USAHA TANI.....	9
E21 AGRO INDUSTRI	14
E70 PERDAGANGAN, PEMASARAN DAN DISTRIBUSI.....	15
E71 PERDAGANGAN INTERNASIONAL.....	16
E80 EKONOMI RUMAH TANGGA, INDUSTRI RUMAH TANGGA DAN KERAJINAN TANGAN	16
F00 ILMU-ILMU PERTANIAN DAN PRODUKSI	
F01 PERTANAMAN	17
F02 PERBANYAKAN TANAMAN.....	21
F03 PRODUKSI DAN PERLAKUAN TERHADAP BIJI DAN BENIH.....	22
F04 PEMUPUKAN	22
F06 IRIGASI	23
F07 PENGOLAHAN TANAH.....	23
F08 POLA TANAM DAN SISTEM PENANAMAN	23
F30 GENETIKA DAN PEMULIAAN TANAMAN.....	25
F40 EKOLOGI TANAMAN	26
F61 FISILOGI TANAMAN - NUTRISI	26
F70 TAKSONOMI TANAMAN DAN SEBARAN GEOGRAFI.....	27
H00 PERLINDUNGAN TANAMAN	
H10 HAMA TANAMAN.....	27
H20 PENYAKIT TANAMAN.....	29
H60 GULMA DAN PENGENDALIAN GULMA.....	30
J00 TEKNOLOGI PASCA PANEN	
J11 PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL TANAMAN	30
J13 PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PETERNAKAN.....	31
J14 PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PERIKANAN DAN BUDIDAYA PERAIRAN	31
K00 KEHUTANAN	
K50 PENGOLAHAN HASIL HUTAN.....	31
K70 KERUSAKAN HUTAN DAN PERLINDUNGAN HUTAN	31

L00 ILMU TERNAK, PRODUKSI DAN PERLINDUNGAN TERNAK	
L01 PETERNAKAN	32
L02 MAKANAN TERNAK	33
L10 GENETIKA DAN PEMULIAAN TERNAK.....	34
L20 EKOLOGI HEWAN DARAT.....	34
L51 FISILOGI TERNAK - NUTRISI	34
L52 FISILOGI TERNAK - PERTUMBUHAN DAN PERKEMBANGAN	34
L53 FISILOGI TERNAK - REPRODUKSI	34
L60 TAKSONOMI HEWAN DAN SEBARAN GEOGRAFINYA.....	35
L70 ILMU VETERINER DAN KESEHATAN HEWAN - ASPEK UMUM.....	35
L73 PENYAKIT TERNAK.....	35
M00 PERIKANAN DAN KULTUR PERAIRAN	
M01 PERIKANAN DAN BUDIDAYA PERAIRAN - ASPEK UMUM.....	36
M11 PRODUKSI PERIKANAN	37
M12 PRODUKSI DAN PENGELOLAAN BUDIDAYA PERAIRAN	37
M40 EKOLOGI PERAIRAN	38
N00 MESIN DAN ENJINIRING PERTANIAN	
N20 MESIN-MESIN DAN PERALATAN PERTANIAN.....	39
P00 SUMBERDAYA ALAM DAN LINGKUNGAN	
P01 KONSERVASI SUMBERDAYA ALAM DAN SUMBERDAYA LAHAN	39
P10 SUMBER DAYA AIR DAN PENGELOLAANNYA	41
P31 SURVEI DAN PEMETAAN TANAH.....	41
P32 KLASIFIKASI DAN PEMBENTUKAN TANAH	42
P33 KIMIA DAN FISIKA TANAH	42
P34 BIOLOGI TANAH.....	42
P36 EROSI, PELESTARIAN DAN PERBAIKAN TANAH.....	43
P40 CUACA DAN IKLIM	44
Q00 PENGOLAHAN HASIL PERTANIAN	
Q02 PENGOLAHAN DAN PENGAWETAN MAKANAN	44
Q03 KONTAMINASI DAN TOKSIKOLOGI PANGAN	46
Q04 KOMPOSISI MAKANAN	46
Q54 KOMPOSISI PAKAN	47
Q60 PENGOLAHAN HASIL PERTANIAN NON-PANGAN DAN NON-PAKAN	48
Q70 PENGOLAHAN LIMBAH PERTANIAN	48
S00 ILMU GIZI	
S01 ILMU GIZI - ASPEK UMUM	48
S30 DIIT DAN PENYAKIT YANG BERHUBUNGAN DENGAN DIIT	48
T00 POLUSI	
T01 POLUSI.....	49
U00 METODOLOGI	
U10 METODOLOGI MATEMATIKA DAN STATISTIKA	49
INDEKS PENGARANG	51
INDEKS SUBYEK.....	59
INDEKS BADAN KORPORASI.....	71
INDEKS JURNAL.....	73

TABLE OF CONTENT

	Page
A00 AGRICULTURE IN GENERAL	
A01 AGRICULTURE - GENERAL ASPECTS.....	1
A50 AGRICULTURE RESEARCH.....	1
C00 EDUCATION, EXTENSION AND INFORMATION	
C20 EXTENSION	1
C30 DOCUMENTATION AND INFORMATION	1
E00 AGRICULTURAL ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY	
E10 AGRICULTURAL ECONOMIC AND POLICIES.....	2
E11 LAND ECONOMICS AND POLICIES	4
E12 LABOUR AND EMPLOYMENT	6
E13 INVESTMENT, FINANCE AND CREDIT	6
E14 DEVELOPMENT ECONOMIC AND POLICIES	6
E16 PRODUCTION ECONOMICS	8
E20 ORGANIZATION, ADMINISTRATION AND MANAGEMENT OF AGRICULTURAL ENTERPRISES OR FARMS.....	9
E21 AGROINDUSTRY.....	14
E70 TRADE, MARKETING AND DISTRIBUTION	15
E71 INTERNATIONAL TRADE	16
E80 HOME ECONOMICS, INDUSTRIES AND CRAFTS	16
F00 PLANT SCIENCE AND PRODUCTION	
F01 CROP HUSBANDRY	17
F02 PLANT PROPAGATION	21
F03 SEED PRODUCTION.....	22
F04 FERTILIZING.....	22
F06 IRRIGATION.....	23
F07 SOIL CULTIVATION	23
F08 CROPPING PATTERNS AND SYSTEMS.....	23
F30 PLANT GENETICS AND BREEDING	25
F40 PLANT ECOLOGY	26
F61 PLANT PHYSIOLOGY - NUTRITION	26
F70 PLANT TAXONOMY AND GEOGRAPHY	27
H00 PLANT PROTECTION	
H10 PESTS OF PLANTS	27
H20 PLANT DISEASES	29
H60 WEEDS AND WEED CONTROL.....	30
J00 POSTHARVEST TECHNOLOGY	
J11 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF PLANT PRODUCTS.....	30
J13 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF ANIMAL PRODUCTS.....	31
J14 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF FISHERIES AND AQUACULTURE PRODUCTS	31
K00 FORESTRY	
K50 PROCESSING OF FOREST PRODUCTS.....	31
K50 FOREST INJURIES AND PROTECTION	31

L00 ANIMAL SCIENCE, PRODUCTION AND PROTECTION	
L01 ANIMAL HUSBANDRY	32
L02 ANIMAL FEEDING	33
L10 ANIMAL GENETICS AND BREEDING	34
L20 ANIMAL ECOLOGY	34
L51 ANIMAL PHYSIOLOGY - NUTRITION	34
L52 ANIMAL PHYSIOLOGY - GROWTH AND DEVELOPMENT	34
L53 ANIMAL PHYSIOLOGY - REPRODUCTION	34
L60 ANIMAL TAXONOMY AND GEOGRAPHY	35
L70 VETERINARY SCIENCE AND HYGIENE - GENERAL ASPECTS	35
L 73 ANIMAL DISEASES	35
M00 FISHERIES AND AQUACULTURE	
M01 FISHERIES AND AQUACULTURE - GENERAL ASPECTS	36
M11 FISHERIES PRODUCTION	37
M12 AQUACULTURE PRODUCTION AND MANAGEMENT	37
M40 AQUATIC ECOLOGY	38
N00 AGRICULTURAL MACHINERY AND ENGINEERING	
N20 AGRICULTURAL MACHINERY AND EQUIPMENT	39
P00 NATURAL RESOURCES AND ENVIRONMENT	
P01 NATURE CONSERVATION AND LAND RESOURCES	39
P10 WATER RESOURCES AND MANAGEMENT	41
P31 SOIL SURVEYS AND MAPPING	41
P32 SOIL CLASSIFICATION AND GENESIS	42
P33 SOIL CHEMISTRY AND PHYSICS	42
P34 SOIL BIOLOGY	42
P36 SOIL EROSION, CONSERVATION AND RECLAMATION	43
P40 METEOROLOGY AND CLIMATOLOGY	44
Q00 PROCESSING OF AGRICULTURAL PRODUCTS	
Q02 FOOD PROCESSING AND PRESERVATION	44
Q03 FOOD CONTAMINATION AND TOXICOLOGY	46
Q04 FOOD COMPOSITION	46
Q54 FEED COMPOSITION	47
Q60 PROCESSING OF NON-FOOD OR NON-FEED AGRICULTURAL PRODUCTS	48
Q70 PROCESSING OF AGRICULTURAL WASTES	48
S00 HUMAN NUTRITION	
S01 HUMAN NUTRITION - GENERAL ASPECTS	48
S30 DIET AND DIET RELATED DISEASES	48
T00 POLLUTION	
T01 POLLUTION	49
U00 METHODOLOGY	
U10 MATHEMATICAL AND STATISTICAL METHODS	49
AUTHOR INDEX	51
SUBJECT INDEX	59
CORPORATE BODY INDEX	71
JOURNAL INDEX	73

A01 AGRICULTURE - GENERAL ASPECTS / PERTANIAN - ASPEK UMUM

0001 SUMODININGRAT, G. [Agriculture should be a mainstay sector]. Pertanian harus bisa menjadi sektor unggulan/Sumodiningrat, G. (Bappenas Jakarta (Indonesia)). Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 31-33

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A50 AGRICULTURAL RESEARCH / PENELITIAN PERTANIAN

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INDONESIA; SOIL; CLIMATE; FERTILIZERS; LAND RESOURCES; RESEARCH; RESEARCH POLICIES.

C20 EXTENSION / PENYULUHAN DAN KOMUNIKASI

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SHEEP; ANIMAL HOUSING; EXTENSION ACTIVITIES.

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VEGETABLE CROPS; INFORMATION SYSTEMS; PROTOTYPES; COMMUNICATION TECHNOLOGY.

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FRUIT CROPS; EXPERT SYSTEMS;
POSTHARVEST TECHNOLOGY;
HANDLING; MECHANICAL
ENGINEERING.

0007 PERMANA, A. [Application of expert system on large equipment choices for land clearing activity]. Aplikasi sistem pakar pada pemilihan alat-alat besar untuk kegiatan pembukaan lahan/Permana, A.; Djojomartono, M.; Darmawati, E. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.) Yogyakarta (Indonesia): UGM, 1999 p. 69-78 2 ill., 10 ref. Summary (In)

INDONESIA; EXPERT SYSTEMS; LAND
CLEARING; SORTING EQUIPMENT; SITE
PREPARATION; MECHANICAL
ENGINEERING.

0008 WARJUKI. Post harvest information system of vegetables. Sistem informasi pasca panen sayur-sayuran/Warjuki; Pertiwi, S.; Sutrisno. Buletin Keteknikan Pertanian (Indonesia) ISSN 0216-3365 (1998) v. 12(3) p. 13-22 4 ill., 9 ref. Summary (En)

VEGETABLES; POSTHARVEST
TECHNOLOGY; QUALITY; INFORMATION
SYSTEMS; MARKET INFORMATION;
EXTENSION ACTIVITIES; FARMERS
ASSOCIATIONS; INFORMATION
SERVICES.

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INDONESIA; DATABASES; RESEARCH;
USES.

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

0010 ARIFIN, C. [A concept of integrated and expanded agricultural development]. Konsep pembangunan pertanian terpadu dan diperluas/Arifin, C. Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 21

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DEVELOPMENT.

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DEVELOPMENT.

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RICE; INTENSIVE FARMING; LAND RESOURCES; IRRIGATED LAND; LAND PRODUCTIVITY; SOCIAL INSTITUTIONS; SELF SUFFICIENCY.

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INDONESIA; CLIMATIC FACTORS; WATER MANAGEMENT; RESOURCE MANAGEMENT; RISK; FOOD SECURITY; PRODUCTION POSSIBILITIES.

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0017 SULAIMAN, F. [The development of social economic through agricultural sector]. Memberdayakan ekonomi masyarakat melalui sektor pertanian/Sulaiman, F. Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 29-30

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INDONESIA; FOOD SUPPLY; ECONOMIC DEVELOPMENT.

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

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FOOD CROPS; PRODUCTION INCREASE; DRY FARMING; FARMING SYSTEMS; EXTENSION ACTIVITIES; TECHNOLOGY TRANSFER; FARM INPUTS; HUMAN RESOURCES; SELF SUFFICIENCY.

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E12 LABOUR AND EMPLOYMENT / TENAGA KERJA DAN KESEMPATAN KERJA

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0047 PUSAT PENELITIAN SOSIAL EKONOMI PERTANIAN. [Impact of globalization on production and coconut trade in Indonesia]. Dampak globalisasi terhadap produksi dan perdagangan kelapa Indonesia: Laporan hasil penelitian/Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 12 tables., 31 ref. Summary (In). Appendixes

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PUSLITTANAK, 1997 p. 143-165 23 tables; 11 ref. Summary (In)

FOOD CROPS; SWAMP SOILS; RESEARCH; TECHNOLOGY TRANSFER; LAND RESOURCES; KALIMANTAN.

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RICE; PRODUCTION INCREASE; AGRICULTURAL DEVELOPMENT; FARM INCOME; LABOUR REQUIREMENTS; INTENSIFICATION; SELF SUFFICIENCY; HUMAN RESOURCES.

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

0050 BAMUALIM, A. [Sociocultural aspects on technology adoption: experience of rice-based farming system (SUTPA) in Nusa Tenggara (Indonesia). Aspek sosial budaya dalam adopsi teknologi: pengalaman SUTPA di gugus Nusa Tenggara/Bamualim, A.; Djamhuri, M.; Ngongo, Y. (Balai Pengkajian Teknologi Pertanian, Naibonat (Indonesia)). [Assessment of rice-based farming system (SUTPA): its concept, empirical performance and prospect]. Pengkajian SUTPA: konsep, keragaan empiris dan prospek/Adnyana, M.O.; Simatupang, P.; Dimiyati, A.; Darmawireja, M.R. (eds.) Pusat

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0055 HENDRATNO, S. Evaluation and analyses of smallholder rubber development project in Jambi. Evaluasi dan analisis proyek-proyek pengembangan karet rakyat di Jambi/Hendratno, S.; Wibawa, G.; Anwar, C.. Jurnal Penelitian Karet (Indonesia) ISSN 0852-808X (1997) v. 15(1) p. 42-56 6 tables; 5 ref. Summary (En)

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FLOODED RICE; FARMING SYSTEMS; APPROPRIATE TECHNOLOGY; PRODUCTION INCREASE; FARM INCOME; SUMATRA.

E21 AGROINDUSTRY / AGROINDUSTRI

0080 ADNYANA, M.O. [Concepts of assessment and development of agribusiness system]. Konsep pengkajian dan pengembangan sistem usaha pertanian/Adnyana, M.O.; Sudaryanto, T.; Kasryno, F. (Pusat Penelitian

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INDONESIA; AGROINDUSTRIAL SECTOR; INSTITUTIONS; MARKETING; DEVELOPMENT POLICIES.

0081 DEPARTEMEN PERTANIAN. [Development imperium of oil palm business through downstream industry]. Membangun imperium bisnis kelapa sawit melalui industri hilir/Departemen Pertanian, Jakarta (Indonesia). Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 25-27

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COCONUTS; AGROINDUSTRIAL SECTOR; DIVERSIFICATION; INDONESIA.

0084 SUDANA, W. [Impact of deregulation sugar industry on resource allocation of food production and farm income]. Dampak deregulasi industri gula terhadap realokasi sumber daya produksi pangan dan pendapatan petani/Sudana, W.; Simatupang, P.; Friyatno, S.; Muslim, C.; Soelistiyo, T. Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 2000 5 ill., 32 ref; Summaries (En, In)

SUGAR; INDUSTRY; ECONOMIC POLICIES; SUGARCANE; FARMING SYSTEMS; FOOD PRODUCTION; FARM INCOME; RESOURCE ALLOCATION.

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

0085 BASUKI, A. [Strategy of cooking oil marketing based on consumer indexes analysis and SWOT analysis in Yogyakarta (Indonesia)]. Strategi pemasaran minyak goreng berdasarkan analisis indeks sikap konsumen dan analisis SWOT di Yogyakarta/Basuki, A. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian); Ainuri, M.; Maksum, M. Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1997) v. 17(4) p. 23-28 1 ill., 6 tables; 21 ref. Summary (In)

JAVA; OILS; MARKETING; CONSUMERS.

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SUGARCANE; TRADE POLICIES; INDONESIA.

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DUCKS; MARKETING; SUPPLY BALANCE; KALIMANTAN; EGGS; FEEDS.

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VANILLA PLANIFOLIA; EXPORTS; INDONESIA; MARKETING CHANNELS; EFFICIENCY.

0089 RACHMADI, B. [Production and marketing of rice seed on national food production supports]. Produksi dan pemasaran benih padi dalam menunjang produksi pangan nasional/Rachmadi, B. (PT Sang Hyang Seri (Persero), Cabang Lampung (Indonesia)). [Proceedings of the Seminar on Increasing National Rice Production through Tabela (direct sowing). System of Lowland Rice and Utilization of Unproductive Land]. Prosiding Seminar Peningkatan Produksi Padi Nasional Melalui Sistem Tabela Padi Sawah dan Pemanfaatan Lahan Kurang Produktif/Sriyani, N.; Widodo, S.E.; Kamal, M.; Karyanto, A.; Setiawan, K.; Sembodo, D.R.J.; Pramono, E.; Hadi, M.S. (Eds.) Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi Indonesia Komisariat Lampung; Universitas Lampung, Bandar Lampung (Indonesia). Bandar Lampung (Indonesia): HIGI; Peragi, 1999 p. 25-33 4 ill., 2 tables

ORYZA SATIVA; SEED PRODUCTION; SEED INDUSTRY; SEED TREATMENT; QUALITY; HIGH YIELDING VARIETIES; PRODUCTION INCREASE; SELF SUFFICIENCY; FARM INCOME; MARKETING.

E71 INTERNATIONAL TRADE / PERDAGANGAN INTERNASIONAL

0090 SUSILA, W.R. Comparative and competitive advantage of Indonesian coffee. Keunggulan komparatif dan kompetitif kopi Indonesia/Susila, W.R. (Asosiasi Penelitian Perkebunan Indonesia, Bogor (Indonesia)). Pelita Perkebunan (Indonesia) ISSN 0215-0212 (1999) v. 15(2) p. 129-140 5 tables; 13 ref. Summaries (En, In)

COFFEE; ECONOMIC COMPETITION; COST ANALYSIS; EXPORTS; INVESTMENT.

E80 HOME ECONOMICS, INDUSTRIES AND CRAFTS / EKONOMI RUMAH TANGGA, INDUSTRI RUMAH TANGGA DAN KERAJINAN TANGAN

0091 ARIMBI, N.W. [Development of Garut plant (*Maranta arundinacea* L.) and its food processing product produce by small industry based on farmers skill: action study of Agrocomplex of Women Team Work (KKPA) Dusun Brongkol, Desa Agrodadi, Kecamatan Sedayu, Bantul (Indonesia)]. Pengembangan tanaman garut (*Maranta arundinacea* L.) dan industri kecil olahannya bertumpu pada prakarsa petani: Suatu kaji tindak KKPA bersama petani Dusun Brongkol, Desa Agrodadi, Kecamatan Sedayu, Bantul/Arimbi, N.W. (Universitas Wangsa Manggala, Yogyakarta (Indonesia). Fakultas Pertanian). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 139-149. 1 table, 8 ref. Summary (In). Appendix

MARANTA ARUNDINACEA; AGRO-FORESTRY; DRY FARMING; CHALK SOILS; FOODS; SMALL ENTERPRISES; INDIGENOUS KNOWLEDGE; TRADITIONAL FARMING; PROXIMATE COMPOSITION.

F01 CROP HUSBANDRY / PERTANAMAN

0092 ANGKASA, S. [Palm soilless culture]. Menanam palem tanpa tanah/Angkasa, S. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 28-29 3 ill.

PALMAE; SOILLESS CULTURE.

0093 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN, UNGARAN. [Technology of direct sowing in irrigated rice field]. Teknologi tanam benih langsung (TABELA) lahan sawah irigasi/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). [Report of Meeting on Implementation of Agricultural Technology Package Application "Recommendation Technology Package of Food Crops"]. Laporan Pelaksanaan Pertemuan Aplikasi Paket Teknologi Pertanian "Paket Teknologi Rekomendasi Tanaman Pangan"/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 1998 p. 1-5 3 tables

ORYZA SATIVA; DIRECT SOWING; GROWTH; YIELDS; COST ANALYSIS; TECHNOLOGY.

0094 CAKRAHADI. [Watery rose apple: all year harvesting]. Jambu air: panen sepanjang tahun/Cakrahadi. Trubus (Indonesia) ISSN 0128-0057. (Jan 1998) v. 29(343) p. 34,36 2 ill.

EUGENIA AQUEA; HARVESTING FREQUENCY.

0095 DHALIMI, A. [History and development of Pogostemon cultivation in Indonesia]. Sejarah dan perkembangan budidaya nilam di Indonesia/Dhalimi, A.; Anggraeni; Hobir. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar;

Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (eds.). Bogor (Indonesia): BALITTRO, 1998 p. 1-9. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 1 table; 3 ref.

POGOSTEMON CABLIN; CULTIVATION; PLANT BREEDING; HISTORY; INDONESIA.

0096 HADIPOENTYANTI, E. [Botany of vanilla]. Botani panili/Hadipoentyanti, E.; Udarna, L. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 14-17. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 1 ill., 5 ref.

VANILLA PLANIFOLIA; BOTANY; CYTOLOGY; PLANT ANATOMY.

0097 HARYONO. [Utilization of seed planting machine as alternative of planting method on irrigated rice cultivation]. Penggunaan mesin tanam benih bermotor sebagai alternatif cara tanam pada budidaya padi sawah/Haryono; Purwanta, C.Y.. [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.). Yogyakarta (Indonesia): UGM, 1999 p. 203-212 2 tables. Summary (In). Appendix

FLOODED RICE; SOWING; MECHANIZATION; PLANTING EQUIPMENT.

0098 IDJUDIN, A.A. [Prospect of agriculture diversification on marginal land of hill sides in Kulonprogo resident (Indonesia)]. Prospek diversifikasi pertanian di lahan marginal lereng perbukitan Kabupaten Kulonprogo/Idjudin, A.A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta

(Indonesia): YUADP Komponen 8, 1997 p. 110-115 3 tables; 6 ref.

JAVA; HIGHLANDS; MARGINAL LAND; LAND SUITABILITY; CONSERVATION TILLAGE; CROPPING SYSTEMS; DIVERSIFICATION.

0099 JAYA, U. [East Java (Indonesia), the famous fruit centre]. Jawa Timur, sentra buah-buahan terkemuka/Jaya, U. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(343) p. 30-31 2 ill., 4 tables

JAVA; FRUITS; PRODUCTION LOCATION.

0100 JOKO-HARTONO. [Harvesting and processing of Madura carved tobacco]. Cara tanam dan pengolahan tembakau rajangan Madura/Joko-Hartono (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 60-67. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 7 ill., 1 table; 13 ref.

TOBACCO; HARVESTING; CUTTING; DRYING; PRICES; MARKETING CHANNELS.

0101 MOKO, H. [The cultivation of *Pogostemon sp.*]. Budidaya/Moko, H.; Muhammad, H.; Effendi, D.S.. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 56-64. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 15 ref.

POGOSTEMON CABLIN; CULTIVATION; ESSENTIAL OIL CROPS; POSTHARVEST TECHNOLOGY.

0102 MUDJISIHONO, R. [Evaluation on rice harvesting system of "tabela" (direct seedling) for supporting SUTPA [Agricultural farm enterprises system] in Daerah Istimewa Yogya-

karta (Indonesia)]. Evaluasi sistem pemanenan padi tabela dalam menunjang SUTPA di propinsi Daerah Istimewa Yogyakarta/Mudjisihono, R. (Balai Pengkajian Teknologi Pertanian, Ungaran, (Indonesia)); Sutrisno; Setyono, A. [Proceedings of Scientific Seminar and Workshop of Technology on Specific location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogya-karta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 42-55 4 tables, 13 ref. Summary (In)

RICE; DIRECT SOWING; HARVESTING; THRESHING; MOWING; WORK CAPACITY; HARVESTING LOSSES; QUALITY; JAVA.

0103 MUKANI. [The history and role of Madura tobacco]. Sejarah dan peranan tembakau Madura/Mukani; Isdijoso, S.H. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 75-78. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 1 table; 6 ref.

TOBACCO; HISTORY; PRODUCTION; MADURA.

0104 NURYANI, Y. [Characteristics of vanilla]. Karakteristik panili/Nuryani, Y. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 18-26. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 3 ill., 3 tables; 11 ref.

VANILLA PLANIFOLIA; VARIETIES; FUSARIUM OXYSPORUM; CHEMICO-PHYSICAL PROPERTIES; PLANT ANATOMY; STRESS.

0105 RACHMAN, A. [Cultivation technique of Madura tobacco]. Teknik budidaya tembakau Madura/Rachman, A.; Machfudz; Istiana, H. (Balai Penelitian Tembakau dan Tanaman Serat,

Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 33-40. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 1 table; 11 ref.

NICOTIANA TABACUM; SEEDS; CULTIVATION; PEST CONTROL; HARVESTING; POSTHARVEST TECHNOLOGY; VARIETIES.

0106 ROSMAN, R. [Climbing plant type and spreading technique of *Vanilla fragrans*]. Jenis pohon panjat dan teknik perambatan tanaman panili/Rosman, R.; Emmyzar (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 49-54. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 2 ill., 3 tables; 5 ref.

VANILLA PLANIFOLIA; CLIMBING HABIT; GROWTH.

0107 RUHNAYAT, A. [Planting, maintaining and harvesting of vanilla]. Penanaman, pemeliharaan dan panen panili/Ruhnayat, A.; Dhalimi, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 68-74. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 1 ill., 1 table; 12 ref.

VANILLA PLANIFOLIA; PLANTING; SEEDLINGS; WEEDING; FERTILIZER APPLICATION; DISEASE CONTROL; POLLINATION; HARVESTING.

0108 SARWONO, B. [Abandoned land to overcome food crises]. Lahan tidur atasi krisis pangan/Sarwono, B. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(342) p. 78-79 2 ill.

ABANDONED LAND; LAND USE; FOOD SECURITY.

0109 SARWONO, B. [Analysis of citrus farming]. Analisis berkebun jeruk keprok/Sarwono, B.; Dadang W.I.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 12 and 27

CITRUS GRANDIS; COST BENEFIT ANALYSIS.

0110 SETYONO, A. [Trial test of harvesters team and paddy thresher machinery on paddy harvesting with team work system]. Uji coba regu pemanen dan mesin perontok padi dalam pemanenan padi sistem beregu/Setyono, A.; Sutrisno; Nugraha, S. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 56-69 6 tables, 9 ref. Appendix. Summary (In

RICE; HARVESTING; THRESHING; MOWING; THRESHERS; HARVESTING LOSSES; MANUAL OPERATION; WORK CAPACITY; COST ANALYSIS; INCOME.

0111 SOENARYONO, H. [Banana harvesting technique]. Teknik memanen pisang agar berkualitas baik/Soenaryono, H.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(341) p. 30 and 36 3 ill.

BANANAS; HARVESTING; QUALITY.

0112 SOENARYONO, H. [Increasing quality of Cavendish bananas]. Meningkatkan mutu buah pisang Cavendish/Soenaryono, H.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 48 and 50 1 ill.

BANANAS; FRUITS; QUALITY.

0113 SUKAR. [Approach method to the farmer by demonstration on commodity selecting to increase farmer activities on conservation farming system]. Metode pendekatan kepada

petani melalui demonstrasi dengan memperhatikan pilihan komoditi untuk meningkatkan aktivitas petani dalam sistem usahatani konservasi/Sukar; Suharno; Harwono, R. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 341-344 7 ref.

AGRICULTURAL PRODUCTS;
CONSERVATION TILLAGE; EXTENSION
ACTIVITIES; PILOT FARMS.

0114 SUPRIYANTO, A. [Grapefruit suited for Indonesia]. Grapefruit cocok ditanam di Indonesia/Supriyanto, A. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Tlekung, Malang (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 39-40 3 ill.

CITRUS GRANDIS; VARIETIES; LAND
SUITABILITY.

0115 SUTİYOSO, Y. [Fruit harvesting at off season]. Panen buah di luar musim/Sutiyoso, Y. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(342) p. 26-27 2 ill.

FRUIT; HARVESTING DATE; OUT OF
SEASON PRODUCTS.

0116 SUTOPO. [6 varieties of Magetan citrus]. 6 varietas jeruk Magetan/Sutopo (Balai Pengkajian Teknologi Pertanian Karangploso, Malang (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 34-35 6 ill.

CITRUS GRANDIS; HIGH YIELDING
VARIETIES.

0117 SUTOPO. [Intensification of Citrus grandis cultivation]. Mengebunkan jeruk besar secara intensif/Sutopo (Instalasi PPTP Tlekung, Malang (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 52-54 1 ill., 2 tables

CITRUS GRANDIS; CULTIVATION;
INTENSIFICATION.

0118 SUTOPO, A. [*Citrus grandis*, high potency low attention]. Jeruk besar potensi besar kurang diperhatikan/Sutopo, A.; Supriyanto; Sugiyarto (Balai Pengkajian Teknologi Pertanian Karangploso, Malang (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 36-37 2 ill.; 2 tables

CITRUS GRANDIS; PRODUCTION; COST
ANALYSIS.

0119 TIRTAWINATA, M.R. [Effect of weather on quality of durian fruits]. Pengaruh cuaca terhadap kualitas buah durian/Tirtawinata, M.R.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 49-50 1 ill.

DURIO ZIBETHINUS; WEATHER; FRUIT.

0120 TIRTAWINATA, M.R. [Shade trees for young mangosteen]. Pohon penaung untuk tanaman manggis muda/Tirtawinata, M.R. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(342) p. 35-36 1 ill.

GARCINIA MANGOSTANA; SHADE
PLANTS; SPACING.

0121 TIRTAWINATA, M.R. [Utilization of abandoned land with fruit crops]. Bangunkan lahan tidur dengan tanaman buah/Tirtawinata, M.R. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(343) p. 38-39 3 ill.

FRUITS; ABANDONED LAND.

0122 TJITROPANOTO, P. [Horticulture research and development on second long term development]. Penelitian dan pengembangan hortikultura dalam pembangunan jangka panjang (PJP) II/Tjitropranoto, P.; Sardjono, S. (Pusat Penelitian dan Pengembangan Hortikultura, Jakarta (Indonesia)) [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis

Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 29-37 1 ill., 2 tables; 7 ref. Appendices

HORTICULTURE; AGRICULTURAL DEVELOPMENT; VARIETIES; RESEARCH POLICIES; ECONOMIC VALUE.

0123 UNTUNG, O. [It is time for soybean cultivation]. Kini saatnya bertanam kedelai/Untung, O. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 69-71 5 tables

GLYCINE MAX; PRODUCTION; DEMAND; IMPORTS.

0124 UTAMI, K.P. [Auspicious prospect for soybean cultivation]. Prospek cerah bertanam kedelai/Utami, K.P. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(339) p. 80-81 2 ill.

GLYCINE MAX; PRODUCTION; TECHNOLOGICAL CHANGES.

0125 UTAMI, K.P. [Technology package of soybean production on several agroecology areas]. Paket teknologi produksi kedelai pada berbagai agroekologis/Utami, K.P. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 72-73

GLYCINE MAX; CULTIVATION; AGROCLIMATIC ZONES.

F02 PLANT PROPAGATION / PER-BANYAKAN TANAMAN

0126 ANGKASA, S. [Four methods for water lotus propagation]. Empat cara perbanyakan teratai/Angkasa, S. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(343) p. 58-59 6 ill.

NELUMBO; PLANT PROPAGATION.

0127 KALIE, M.B. [Alternative for rootstock of citrus]. Alternatif jeruk batang bawah/Kalie, M.B.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 14-15 8 ill., 1 table

CITRUS; GRAFTING; VARIETIES; ROOTSTOCKS.

0128 NUR, A.M. The performance of Arabica Catimor grafted on Robusta and Arabica Typica rootstocks. Keragaan kopi Arabika Catimor pada batang bawah Robusta dan Arabika Typica/Nur, A.M.; Wibawa, A.; Winaryo (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Pelita Perkebunan (Indonesia) ISSN 0215-0212 (1999) v. 15(2) p. 91-100 4 tables; 18 ref. Summaries (En, In)

COFFEA ARABICA; COFFEA CANEPHORA; GRAFTING; ROOTSTOCKS; GROWTH; SEEDLINGS; YIELDS; FLAVOUR.

0129 SISWANDONO. [Assessment on technology development of kelengkeng (*Euphoria longana*) culture in Selarong low land (Indonesia)]. Pengkajian pengembangan teknologi budidaya kelengkeng dataran rendah Selarong/Siswandono; Notohadisuwarno, S.; Trisnowati, S. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian); Na'iem, M. [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 173-183 1 ill., 13 tables; 5 ref. Summary (In)

EUPHORIA LONGANA; BUDDING; TOPWORKING; GRAFT UNIONS; CULTURE MEDIA; PLANTING STOCK; GROWTH; LOWLAND.

0130 SUGIYANTO, A. ["Top working" to homogenize avocado trees]. "Top working" menyeragamkan alpukat dewasa/Sugiyanto, A. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Tlekung, Malang (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(342) p. 30-31 7 ill.

PERSEA AMERICANA; TOPWORKING.

0131 SUKAMTO. [Preparation of healthy vanilla planting stock]. Usaha penyiapan setek panili sehat/Sukamto; Tombe, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 102-106. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 2 tables; 8 ref.

VANILLA PLANIFOLIA; PLANTING STOCK; FUSARIUM OXYSPORUM; FUNGICIDES; SEEDLINGS.

0132 TIRTAWINATA, M.R. [Mangosteen planting, by grafting or seed?]. Menanam bibit manggis, sambungan atau biji?/Tirtawinata, M.R.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(341) p. 31-32 2 ill.

GARCINIA MANGOSTANA; PROPAGATION MATERIALS.

0133 TIRTAWINATA, M.R. [Method of grafted root cutting]. Metoda starting (setek akar yang digrafting)/Tirtawinata, M.R.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 42-44 2 ill.

GARCINIA; VEGETATIVE PROPAGATION; GRAFTING.

F03 SEED PRODUCTION / PRODUKSI DAN PERLAKUAN TERHADAP BIJI DAN BENIH

0134 DHALIMI, A. [Vanilla seedlings]. Pembibitan panili/Dhalimi, A.; Zaubin, R.; Ruhnayat, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 45-48. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 12 ref.

VANILLA PLANIFOLIA; SEEDLINGS; PLANTING; PROPAGATION BY CUTTINGS; VEGETATIVE PROPAGATION.

0135 RUMIATI, S. [The seed system of *Pogostemon sp.*]. Sistem pembenihan/Rumiati, S.; Rusmin, D.; Hasanah, M. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (eds.). Bogor (Indonesia): BALITTRO, 1998 p. 33-39. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 7 ref.

POGOSTEMON CABLIN; VARIETIES; PLANT BREEDING; ESSENTIAL OIL CROPS; VEGETATIVE PROPAGATION; SEED PRODUCTION; SEED CERTIFICATION.

0136 SUFIANI, S. [The seed production technique of *Pogostemon sp.*]. Teknik produksi bibit/Sufiani, S.; Hobir. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.) . Bogor (Indonesia): BALITTRO, 1998 p. 40-46. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 8 ref.

POGOSTEMON CABLIN; VEGETATIVE PROPAGATION; SEED PRODUCTION; CULTIVATION.

F04 FERTILIZING / PEMUPUKAN

0137 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN, UNGARAN. [Use of Rhizo-plus multipurpose microbe fertilizer on soybean]. Pemakaian pupuk mikroba multiguna (PMMG) Rhizo-plus pada kedelai. [Report of Meeting on Implementation of Agricultural Technology Package Application "Recommendation Technology Package of Food Crops"]. Laporan Pelaksanaan Pertemuan Aplikasi Paket Teknologi Pertanian "Paket Teknologi Rekomendasi Tanaman Pangan"/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 1998 p. 1-9 4 tables; 9 ref.

GLYCINE MAX; EXTENSIFICATION; BIO FERTILIZERS; GROWTH; YIELDS; COST BENEFIT ANALYSIS; TECHNOLOGY TRANSFER.

0138 SUTİYOSO, Y. [Pests and diseases control by fertilizer application]. Menangkal serangan hama/penyakit melalui pemupukan/Sutiyoso, Y. *Trubus (Indonesia)* ISSN 0128-0057 (Jan 1998) v. 29(338) p. 84-85 2 tables

FERTILIZERS; CHEMICAL COMPOSITION; FERTILIZER APPLICATION; PEST RESISTANCE; DISEASE RESISTANCE.

0139 SUTİYOSO, Y. [Engineering of performance, size and taste of fruit by fertilizer application]. Merekayasa penampilan, ukuran dan rasa buah melalui pemupukan/Sutiyoso, Y. *Trubus (Indonesia)* ISSN 0128-0057 (Jan 1998) v. 29(340) p. 90-91 2 ill.

FRUIT; QUALITY; FERTILIZER APPLICATION.

F06 IRRIGATION / IRIGASI

0140 JAYA, U. [Sprinkler irrigation to guarantee apple quality]. Irigasi tetes menjamin kualitas buah apel/Jaya, U. (*Trubus, Jakarta (Indonesia)*). *Trubus (Indonesia)* ISSN 0128-0057 (Jan 1998) v. 29(338) p. 50-51 4 ill.

MALUS; SPRINKLER IRRIGATION; PROFIT; IRRIGATION SYSTEMS; FRUIT; QUALITY.

F07 SOIL CULTIVATION / PENG-OLAHAN TANAH

0141 ROZAQ, A. [Comprehension of mechanical soil tillage concept in Indonesia]. Pemahaman konsep pengolahan tanah secara mekanis di Indonesia/Rozaq, A. (*Universitas Gadjah Mada, Yogyakarta (Indonesia)*) [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. *Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA)*; v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.) . Yogyakarta (Indonesia): UGM, 1999 p. 48-58 1 ill., 22 ref. Summary (In)

INDONESIA; TILLAGE; TROPICAL SOILS.

0142 WIDODO. [Mechanical tillage system for upland rice]. Pengolahan tanah sawah gogo rancah secara mekanis/Widodo (*Universitas Gadjah Mada, Yogyakarta (Indonesia)*). [Proceeding on the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. *Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA)*; v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (Eds.). Yogyakarta (Indonesia): UGM, 1998 p. 256-264 1 ill., 1 table. Summary (In)

UPLAND RICE; TILLAGE; CULTIVATION.

F08 CROPPING PATTERNS AND SYSTEMS / POLA TANAM DAN SISTEM PENANAMAN

0143 ABDURACHMAN, A. [Technology of dry land farming for agricultural development in Kalimantan]. Teknologi usahatani lahan kering untuk pengembangan pertanian di Kalimantan/Abdurachman, A. (*Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)*). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. *Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. (Eds.)*. Bogor (Indonesia): PUSLITTANAK, 1997 p. 115-133 2 ill., 8 tables; 14 ref. Summary (In)

KALIMANTAN; AGRICULTURAL DEVELOPMENT; DRY FARMING; FARMING SYSTEMS; ALLEY CROPPING; FERTILIZER APPLICATION.

0144 ADNYANA, M.O. [Evaluation of methodology and profile of farming system and agribusiness system research]. Evaluasi metodologi dan profil penelitian sistem usaha pertanian/Adnyana, M.O. (*Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)*). [Assessment of rice-based farming system (SUTPA): its concept, empirical performance and prospect]. *Pengkajian SUTPA: konsep, keragaan empiris dan prospek/Adnyana, M.O.; Simatupang, P.; Dimiyati, A.; Darmawireja, M.R. (eds.)* Pusat Penelitian Sosial Ekonomi

Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 1-17. Monograf Series Pusat Penelitian Sosial Ekonomi Pertanian Indonesia no. 19 34 ref.

INDONESIA; RESEARCH; FARMING SYSTEMS; AGROINDUSTRIAL SECTOR; SUSTAINABILITY; DEVELOPMENT POLICIES.

0145 ADNYANA, M.O. [Prospect and constraint of direct sowing technique on rice-based farming system (SUTPA)]. Prospek dan kendala pengembangan teknik tanam benih langsung (tabela) dalam SUTPA/Adnyana, M.O. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). [Assessment of rice-based farming system (SUTPA): its concept, empirical performance and prospect]. Pengkajian SUTPA: konsep, keragaan empiris dan prospek/Adnyana, M.O.; Simatupang, P.; Dimiyati, A.; Darmawireja, M.R. (eds.) Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 353-371. Monograf Series Pusat Penelitian Sosial Ekonomi Pertanian (Indonesia) no. 19 7 tables; 25 ref.

RICE; FARMING SYSTEMS; DIRECT SOWING; TECHNOLOGY; PRODUCTION; FARM INCOME; DEVELOPMENT POLICIES.

0146 ASTIKA, W. . [Farming system of tea (*Camellia sinensis*)]. Sistem usaha tani teh/Astika, W.; Wibowo, Z.S.; Martosupono, M. (eds.) Pusat Penelitian Teh dan Kina, Gambung (Indonesia). Bogor (Indonesia): Badan Penelitian dan Pengembangan Kehutanan dan Perkebunan, 2000 11 p. 3 tables; 11 ref. Summary (In)

CAMELLIA SINENSIS; CATCH CROPPING; SHADING; YIELDS; GROWTH; FARM INCOME.

0147 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN, UNGARAN [Intercropping pattern of *Kaempferia* with seasonal crops]. Pola tanam tumpangsari kencur dengan tanaman semusim/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). [Report of Meeting on 24

Implementation of Agricultural Technology Package Application "Recommendation Technology Package of Food Crops"]. Laporan Pelaksanaan Pertemuan Aplikasi Paket Teknologi Pertanian "Paket Teknologi Rekomendasi Tanaman Pangan"/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Salatiga (Indonesia): BPTP, 1998 p. 1-5 4 tables.

KAEMPFERIA; SEASONAL CROPPING; INTERCROPPING; YIELDS; COST BENEFIT ANALYSIS; TECHNOLOGY.

0148 DJAZULI, M. [The cropping systems of *Pogostemon cablin*]. Pola tanam/Djazuli, M.; Emmyzar. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds. . Bogor (Indonesia): BALITTRO, 1998 p. 70-74. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 2 tables; 11 ref.

POGOSTEMON CABLIN; CROPPING SYSTEMS; COCOS NUCIFERA; SUMATRA; JAVA.

0149 MUDJISIHONO, R. [Introduction of direct sowing system and new high yielding varieties on rice-based farming system assessment in Yogyakarta (Indonesia)]. Pengenalan sistem tabela dan varietas unggul baru pada pengkajian SUTPA di Yogyakarta /Mudjisihono, R.; Prayitno, D.; Thamrin, M.; Djaafar, T.F. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Assessment of rice-based farming system (SUTPA): its concept, empirical performance and prospect]. Pengkajian SUTPA: konsep, keragaan empiris dan prospek/Adnyana, M.O.; Simatupang, P.; Dimiyati, A.; Darmawireja, M.R. (eds.). Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 181-209. Monograf Series Pusat Penelitian Sosial Ekonomi Pertanian (Indonesia) no. 19 8 tables; 27 ref. Appendix

RICE; ORYZA SATIVA; FARMING SYSTEMS; DIRECT SOWING; HIGH YIELDING VARIETIES; JAVA.

0150 PURWANTO, M.Y.J. Soil moisture fluctuation on the gogoranch cultivation system. Fluktuasi kelembaban tanah pada budidaya gogoranch/Purwanto, M.Y.J.; Badrudin, U. Buletin Keteknik Pertanian (Indonesia) ISSN 0216-3365 (1999) v. 13(1) p. 1-8 3 ill., 1 table; 16 ref. Summary (En)

ORYZA SATIVA; FARMLAND; CROPPING SYSTEMS; DRY FARMING; ZERO TILLAGE; PLANTING DATE; SOIL WATER CONTENT; EVAPOTRANSPIRATION; YIELDS.

0151 WAHID, P. [Vanilla cropping pattern]. Pola tanam panili/Wahid, P.; Rosman, R. Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 63-67. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 2 ill., 6 ref.

VANILLA PLANIFOLIA; CROP MANAGEMENT; SOIL FERTILITY; HARVESTING.

F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN

0152 DJISBAR, A. [The variety improvement]. Perbaikan varietas/Djisbar, A.; Seswita, D. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 10-15. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 4 tables; 12 ref.

POGOSTEMON CABLIN; GENETIC VARIATION; VARIETIES; TISSUE CULTURE; ESSENTIAL OILS.

0153 HADIPOENTYANTI, E. [Breeding and propagation farms of vanilla]. Kebun induk dan kebun perbanyakan/Hadipoentyanti, E.; Dhalimi, A.; Zaubin, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor

(Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 37-44. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 13 ref.

VANILLA PLANIFOLIA; VARIETIES; PLANT BREEDING; PLANT PROPAGATION; SELECTION; PLANTING STOCK; PACKAGING; INDONESIA.

0154 HADIPOENTYANTI, E. [Vanilla breeding methods]. Teknik persilangan panili/Hadipoentyanti, E.; Ajijah, N. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 27-36. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 4 ill., 2 tables; 8 ref.

VANILLA PLANIFOLIA; GENETIC ENGINEERING; BREEDING METHODS; HYBRIDIZATION; CROSS POLLINATION; SELF POLLINATION; POLLEN; POWDERS.

0155 ISWANTO, A. Study on yield stability and pod component of several cocoa hybrids. Kajian stabilitas hasil dan komponen buah beberapa hibrida kakao/Iswanto, A.; Winarno, H.; Suhendi, D. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Pelita Perkebunan (Indonesia) ISSN 0215-0212 (1999) v. 15(2) p. 81-90 5 tables; 19 ref. Summaries (En, In)

THEOBROMA CACAO; YIELDS; STABILITY; FRUIT; GENOTYPE ENVIRONMENT INTERACTION; HYBRIDS.

0156 NA'ITEM, M. [Study on genetic variation of lengkung (*Euphoria longana*) with isozim analysis]. Studi variasi genetik lengkung dengan analisis isozim/Na'iem, M.; Indrioko, S. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Kehutanan); Siswandon; Notohadisuwarno, S. [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi

Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 166-172 1 ill., 3 tables, 8 ref. Summary (In). Appendix

EUPHORIA LONGANA; GENETIC VARIATION; GENETIC DISTANCE; ISOENZYMES.

0157 NURYANI, Y. [The characteristics of *Pogostemon sp.*]. Karakterisasi/Nuryani, Y. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 16-23. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 8 tables; 10 ref.

PLANT ANATOMY; ESSENTIAL OILS; CHEMICOPHYSICAL PROPERTIES; POGOSTEMON CABLIN; NEMATODA; RADOPHOLUS SIMILIS; PRATYLENCHUS BRACHYURUS; SUMATRA; JAVA.

0158 NURYANI, Y. [Vanilla germplasm]. Plasma nutfah panili/Nuryani, Y. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 6-13. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 5 tables; 13 ref.

VANILLA PLANIFOLIA; GERMPLASM; GENETICS; PLANT ESTABLISHMENT; EVALUATION; INDONESIA.

0159 SUWARSO. [Madura tobacco breeding]. Pemuliaan tembakau Madura/Suwarso; Herwati, A.; Rachman S.K., A.; Slamet (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 7-18. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 4 ill., 22 ref.

NICOTIANA TABACUM; PLANT BREEDING; GERMPLASM; BREEDING METHODS.

0160 SYUKUR, C. [The germplasm of *Pogostemon sp.*]. Plasma nutfah/Syukur, C.; Nuryani, Y. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (eds.). Bogor (Indonesia): BALITTRO, 1998 p. 24-32. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 3 tables; 20 ref.

POGOSTEMON CABLIN; GERMPLASM; CULTIVATION; PLANT PRODUCTION; PLANT INTRODUCTION; GERMPLASM CONSERVATION; PLANT ANATOMY; SUMATRA; JAVA.

F40 PLANT ECOLOGY / EKOLOGI TANAMAN

0161 BASUKI, S. [Biology and morphology of Madura tobacco]. Biologi dan morfologi tembakau Madura/Basuki, S.; Suwarso; Herwati, A.; Yulaikah, S. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 1-6. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 4 ill., 20 ref.

NICOTIANA TABACUM; TAXONOMY; PLANT ANATOMY.

F61 PLANT PHYSIOLOGY - NUTRITION / FISILOGI TANAMAN - NUTRISI

0162 RAHARDJO, B. [Volume measurement of solid particles with several shapes using bulk materials on agricultural products]. Pengukuran volume benda padat berbagai bentuk dengan berdasarkan volume desakan pada bahan curah/Rahardjo, B.; Suratmo, B. (Universitas Gadjah Mada, Yogyakarta (Indonesia)). Fakultas Teknologi Pertanian). Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1997) v. 17(4) p. 13-17 7 ill., 11 ref. Summary (En)

AGRICULTURAL PRODUCTS; VOLUME;
SOLIDS; CHEMICOPHYSICAL
PROPERTIES; MEASUREMENT.

**F70 PLANT TAXONOMY AND
GEOGRAPHY / TAKSONOMI
TANAMAN DAN SEBARAN
GEOGRAFI**

0163 POLKE, D.S. Novelties in *Alysicarpus* desv. (Fabaceae) from India/Polke, D.S. (Deogiri College, Aurangabad (India). Department of Botany). *Reinwardtia* (Indonesia): A Journal on Taxonomic Botany, Plant Sociology and Ecology ISSN 0034-365X (1999) v. 11(4) p. 285-294 4 ill., 3 tables. Summaries (En, In)

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

0164 RUGAYAH. *Conspectus of Trichosanthes* (Cucurbitaceae) in Malesia/Rugayah (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); De Wilde, W.J.J.O.. *Reinwardtia* (Indonesia): A Journal on Taxonomic Botany, Plant Sociology and Ecology ISSN 0034-365X (1999) v. 11(4) p. 227-280 10 ill. Summaries (En, In)

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

0165 WIDJAJA, E.A. New taxa in Indonesian bamboos/Widjaja, E.A. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). *Reinwardtia* (Indonesia): A Journal on Taxonomic Botany, Plant Sociology and Ecology ISSN 0034-365X (1997) v. 11(2) p. 57-152 35 ill., 17 ref. Summaries (En, In)

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

0166 WIDYARTINI, D.S. A new species of *Anadendrum* (Araceae) from Malesia/Widyartini, D.S. (Universitas Jenderal Soedirman, Purwokerto (Indonesia). Fakultas Biologi); Widjaja, E.A. *Reinwardtia* (Indonesia): A Journal on Taxonomic Botany, Plant Sociology and Ecology ISSN 0034-365X (1999) v. 11(4) p. 281-284 1 ill. Summaries (En, In)

ARACEAE; TAXA; NEW SPECIES;
TAXONOMY; PLANT ANATOMY; POPU-
LATION DISTRIBUTION; MALAYSIA.

**H10 PESTS OF PLANTS / HAMA
TANAMAN**

0167 BALAI PENGAJIAN TEKNOLOGI PERTANIAN, UNGARAN [Pest and disease control on young citrus]. Pengendalian hama dan penyakit pada tanaman jeruk muda/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). [Report of Meeting on Implementation of Agricultural Technology Package Application "Recommendation Technology Package of Food Crops"]. Laporan Pelaksanaan Pertemuan Aplikasi Paket Teknologi Pertanian "Paket Teknologi Rekomendasi Tanaman Pangan"/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 1998 p. 1-5 2 tables., 2 ref.

CITRUS; DISEASE CONTROL; PEST
CONTROL; FUNGICIDES; INSECTICIDES.

0168 BALAI PENGAJIAN TEKNOLOGI PERTANIAN, UNGARAN [Rat pest control using trap system]. Pengendalian hama tikus dengan sistem pagar perangkap bubu/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). [Report of Meeting on Implementation of Agricultural Technology Package Application "Recommendation Technology Package of Food Crops"]. Laporan Pelaksanaan Pertemuan Aplikasi Paket Teknologi Pertanian "Paket Teknologi Rekomendasi Tanaman Pangan"/Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 1998 p. 1-7 2 ill.

ORYZA SATIVA; RODENT CONTROL;
TRAPS; TRAP CROPS.

0169 DECIYANTO, S. [The prime pests and their control strategy of *Pogostemon sp.*]. Hama penting dan strategi pengendaliannya/Deciyanto, S.; Trisawa, I.M.; Wiratno. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 75-83. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 3 ill., 10 ref.

POGOSTEMON CABLIN; PYRALIDAE; ACRIDIDAE; APHIDIDAE; PENTATOMIDAE; COLEOPTERA; INTEGRATED PEST MANAGEMENT; PESTS OF PLANTS; ANIMAL MORPHOLOGY

0170 MARDININGSIH, T.L. [Pogostemon as material of botanical insecticides]. Nilam sebagai bahan baku insektisida nabati/Mardiningsih, T.L.; Wikardi, E.A.; Wiratno; Ma'mun. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.) . Bogor (Indonesia): BALITTRO, 1998 p. 96-99. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 5 tables; 9 ref.

POGOSTEMON CABLIN; ESSENTIAL OILS; BOTANICAL INSECTICIDES.

0171 MINJOYO, H. [Pests and diseases of *Lates calcarifer*]. Hama dan penyakit/Minjoyo, H.; Kurniastuty; Hermawan, A. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiasuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya (Eds.). Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 61-67 5 ref.

LATES CALCARIFER; PARASITOSIS; FUNGAL DISEASES; VIROSES; ENVIRONMENTAL FACTORS.

0172 RIZAL, H. Demographic statistics of pink bollworm (Lepidoptera: Gelechiidae) in laboratory. Statistik demografi *Pectinophora gossypiella* (Saunders) di laboratorium/Rizal, H.; Hasnam (Balai Penelitian Tembakau dan

Tanaman Serat, Malang (Indonesia)). Jurnal Penelitian Tanaman Industri (Indonesia) ISSN 0853-8212 (1998) v. 4(2) p. 61-71 8 ill., 1 table; 15 ref. Summaries (En, In)

PECTINOPHORA GOSSYPIELLA; GOSSYPIUM HIRSUTUM; DEMOGRAPHY; GELECHIIDAE; SURVIVAL; LIFE TABLES; POPULATION DYNAMICS.

0173 SARDHI, D. [Virus solution for borer pest]. Larutan virus untuk sang penggerek/Sardhi, D.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(343) p. 61 1 ill.

PHTHORIMAEA OPERCULELLA; GRANULOSIS VIRUSES; BIOLOGICAL CONTROL.

0174 SUBIYAKTO. [Pests of Madura tobacco and their control]. Hama tembakau Madura dan pengendaliannya/Subiyakto; Winarno, D.; Hermanto (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 41-50. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 10 ill., 11 ref.

NICOTIANA TABACUM; HELICOVERPA; SPODOPTERA LITURA; MYZUS PERSICAE; AGROTIS IPSILON; SOLENOPSIS GEMINATA; SCROBIPALPA HELIOPA; PEST CONTROL; OXYA; BEMISIA TABACI; LASIODERMA SERRICORNE.

0175 SUDARMADJI, D. Detection of variability of *Beauveria bassiana* based on protein profile and bioassay against *Helopeltis antonii*. Deteksi keberagaman *Beauveria bassiana* berdasarkan pola pita protein dan uji hayati terhadap hama *Helopeltis antonii*/Sudarmadji, D.; Suharyanto (Pusat Penelitian Bioteknologi Perkebunan (Indonesia)). Jurnal Mikrobiologi Tropika (Indonesia) ISSN 0852-937X (1997) v. 1(2) p. 60-63 2 ill., 1 table; 9 ref. Summary (En)

BEAUVERIA BASSIANA; HELOPELTIS ANTONII; GENETIC VARIATION; BIOASSAYS; ELECTROPHORESIS.

H20 PLANT DISEASES / PENYAKIT TANAMAN

0176 ADI, B.H. [Plant diseases of Madura tobacco and their control]. Penyakit tanaman tembakau Madura dan pengendaliannya/Adi, B.H.; Dalmadiyo, G. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 51-58. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 7 ill., 1 table; 7 ref.

NICOTIANA TABACUM; PLANT DISEASES; DISEASE CONTROL; PLANT VIRUSES; FUSARIUM; PYTHIUM; SCLEROTIUM (DEUTEROMYCOTINA); RHIZOCTONIA; PHYTOPHTHORA NICOTIANAE.

0177 ASMAN, A. [The control strategy of wilt, Budok and other diseases on *Pogostemon sp.*]. Penyakit layu, Budok dan penyakit lainnya serta strategi pengendaliannya/Asman, A.; Adhi, E.M.; Sitepu, D.. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.) . Bogor (Indonesia): BALITTRO, 1998 p. 84-88. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 10 ref.

POGOSTEMON CABLIN; PSEUDOMONAS SOLANACEARUM; RHIZOCTONIA; COLLETOTRICHUM; FUSARIUM; CONTROL METHODS; DISEASE CONTROL; SUMATRA; JAVA.

0178 JAYA, U. [Phytophthora threaten your Monthong durian]. Phytophthora ancam durian Monthong anda/Jaya, U. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 46-47

DURIO ZIBETHINUS; PHYTOPHTHORA PALMIVORA; DISEASE CONTROL.

0179 MUSTIKA, I. [The nematoda infestation and its control on *Pogostemon sp.*]. Gangguan nematoda dan cara pengendaliannya/Mustika, I.;

Nazarudin, S.B.. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 89-95. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 3 ill., 21 ref.

POGOSTEMON CABLIN; NEMATODA; ESSENTIAL OILS; PRATYLENCHUS; MELOIDOGYNE; RADOPHOLUS SIMILIS; NEMATODE CONTROL; SUMATRA; JAVA.

0180 SISWANTO. *Halictophagus sp.*, nymph-*imago* parasitoid of *Hindola fulva* on clove. *Halictophagus sp.* parasitoid nimfa-*imago* *Hindola fulva* pada tanaman cengkeh/Siswanto (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Jurnal Penelitian Tanaman Industri (Indonesia) ISSN 0853-8212 (1998) v. 4(2) p. 56-60 3 ill., 9 ref. Summaries (En, In)

STREPSIPTERA; PARASITIDS; INSECT DISEASES; SYZGIUM AROMATICUM; IDENTIFICATION; PLANT ANATOMY.

0181 SISWOPUTRANTO, L.D. [Integrated control of cocoa pod borer]. Pengendalian hama terpadu buah kakao/Siswoputranto, L.D.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 82-83 1 ill.

THEOBROMA CACAO; CONOPOMORPHA CRAMERELLA; INTEGRATED CONTROL; PRUNING; QUALITY.

0182 SITUMORANG, A. The Utilization of saprophytic fungi for decomposition of rubber stumps as an alternative in controlling white root disease (*Rigidoporus microporus*) on rubber trees. Pemanfaatan jamur saprofit tunggul karet sebagai alternatif pengendalian penyakit akar putih (*Rigidoporus microporus*) pada karet/Situmorang, A. (Balai Penelitian Sembawa, Palembang (Indonesia)). Jurnal Mikrobiologi Tropika (Indonesia) ISSN 0852-937X (1997) v. 1(2) p. 71-75 1 table; 24 ref. Summary (En)

HEVEA BRASILIENSIS; RIGIDOPORUS; SAPROPHYTISM; DISEASE CONTROL; BIOLOGICAL CONTROL ORGANISMS; FUNGI; STUMPS; DEGRADATION.

0183 SRI-SUKAMTO. Effectiveness of *Trichoderma spp.* in biological control agents for *Rhizoctonia solani* in coffee seedling. Keefektifan *Trichoderma spp.* sebagai agen pengendali hayati *Rhizoctonia solani* pada bibit kopi/Sri-Sukamto; Junianto, Y.D. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Pelita Perkebunan (Indonesia) ISSN 0215-0212 (1999) v. 15(2) p. 120-128 3 tables; 9 ref. Summaries (En, In)

COFFEA; RHIZOCTONIA SOLANI; TRICHODERMA; BIOLOGICAL CONTROL; SEEDLINGS.

0184 TAUFIQ, E. [Vanilla diseases]. Penyakit panili lainnya/Taufiq, E.; Manohara, D. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 96-101. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 3 ill., 18 ref.

VANILLA PLANIFOLIA; ROOT ROTTS; PHYTOPHTHORA; COLLETOTRICHUM; CORTICIUM ROLFSSII; FUNGI; BALI.

0185 TOMBE, M. [Status and control of *Fusarium oxysporum f.sp. vanilla*]. Status penyakit busuk batang dan usaha penanggulangannya/Tombe, M.; Sukamto; Asman, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 83-95. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 9 tables; 22 ref.

VANILLA PLANIFOLIA; FUSARIUM OXYSPORUM; FUNGICIDES; PATHOGENESIS; BOTANICAL PESTICIDES; ORGANIC MATTER; INDONESIA.

H60 WEEDS AND WEED CONTROL / GULMA DAN PENGENDALIAN GULMA

0186 AMYPALUPY, K. Integrated imperata control in rubber smallholding during immature

period. Pengendalian alang-alang secara terpadu pada tanaman karet rakyat selama periode tanaman belum menghasilkan/Amypalupy, K.; Suryaningtyas, H.; Kuswanhadi. Jurnal Penelitian Karet (Indonesia) ISSN 0852-808X (1997) v. 15(1) p. 13-22 3 tables; 9 ref. Summary (En)

HEVEA BRASILIENSIS; IMPERATA CYLINDRICA; JUVENILITY OF PLANTS INTEGRATED CONTROL; GROWTH; COST ANALYSIS.

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

0187 JAYA, U. [Apple with two years storability]. Apel tahan disimpan dua tahun/Jaya, U. (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(343) p. 35-36 3 ill.

APPLES; WAXING; STORAGE.

0188 RAHARDJO, B. [Determination of the coefficient of surface heat transfer on agricultural products with spherical shapes]. Penentuan koefisien perpindahan panas permukaan bola berdasarkan pendekatan analitik perpindahan panas tak tunak/Rahardjo, B.; Suhargo (Universitas Gadjah Mada, Yogyakarta (Indonesia)). Fakultas Teknologi Pertanian; Tambunan, H. Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1997) v. 17(4) p. 18-22 4 ill., 2 tables; 9 ref. Summary (En)

AGRICULTURAL PRODUCTS; POST-HARVEST TECHNOLOGY; HEAT TRANSFER.

0189 SUMARDI. [Model development of tropical fruits in controlled atmosphere storage (CA5): Case of durian]. Pengembangan model penyimpanan buah tropika dalam atmosfer terkendali (CA): Kasus durian/Sumardi. Bogor (Indonesia): IPB, 1999 55 ill., 73 tables; 55 ref. Summaries (En, In)

DURIO ZIBETHINUS, CONTROLLED ATMOSPHERE STORAGE, EQUIPMENT; COMPUTER SOFTWARE; HARVESTING DATE; RESPIRATION; MATURITY; MATHEMATICAL MODELS.

0190 WURYANI, S. Studies on respiration model for edible coated minimally processed Pondoh Salak. Pengkajian model respirasi Salak Pondoh terolah minimal dengan pelapis edibel/ Wuryani, S.; Rusmono, M.; Purwadaria, H.K.; Syarif, A.M. Buletin Keteknikan Pertanian (Indonesia) ISSN 0216-3365 (1998) v. 12(3) p. 1-12 8 ill., 1 table; 22 ref. Summary (En)

SALACCA; PROCESSING; KEEPING QUALITY; EDIBLE FILMS; RESPIRATION RATE.

J13 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF ANIMAL PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PETERNAKAN

0191 ABUBAKAR. [Effect of spray chilling on the carcass weight loss of cross Brahman cattle during storage of 5-6 deg. C]. Pengaruh percikan air dingin (spray chilling) terhadap penurunan susut berat karkas sapi Brahman cross selama penyimpanan pada suhu ruangan 5-6oC/Abubakar; Putu, I.G. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 843-848 2 ill.; 2 tables; 7 ref. Summary (In)

CATTLE; CARCASS COMPOSITION; STORAGE; SPRAYING; WEIGHT LOSSES.

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

0192 PURWANINGSIH, S. [The transportation system of live fish]. Sistem transportasi ikan hidup/Purwaningsih, S. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). Buletin Teknologi Hasil Perikanan (Indonesia) ISSN 0854-9230 (1998) v. 5(1) p. 5-6 8 ref.

FISHERIES; TRANSPORT OF ANIMALS; CONSUMPTION; PROCESSING; PACKAGING.

0193 THARIQ, M. [Harvesting technique and transportation of *Lates calcarifer*]. Teknik panen dan transportasi/Thariq, M.; Mustamin; Al-qodri, A.H. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiastruti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya. Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 68-73 1 table; 4 ref.

LATES CALCARIFER; TRANSPORT OF ANIMALS; HARVESTING; HATCHERIES; REARING TECHNIQUES.

K50 PROCESSING OF FOREST PRODUCTS / PENGOLAHAN HASIL HUTAN

0194 HADI, Y.S. Comparison between graveyard and laboratory tests on rubber-wood acetylated flakeboard attacked by *Macrotermes gilvus* subterranean termite/Hadi, Y.S. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). Indonesian Journal of Tropical Agriculture (Indonesia) ISSN 0852-5927 (1997) v. 8(1) p. 21-23 1 table; 6 ref.

RUBBER CROPS; WOOD; PARTICLE BOARDS; MACROTERMES; ISOPTERA; LABORATORY DIAGNOSIS; TESTING.

K70 FOREST INJURIES AND PROTECTION / KERUSAKAN HUTAN DAN PERLINDUNGAN HUTAN

0195 RAHMAT, B. [Forest fire and its financial loss]. Kebakaran hutan dan kerugiannya/Rahmat, B. (Universitas Siliwangi, Tasikmalaya (Indonesia). Fakultas Pertanian).

Jurnal Penelitian (Indonesia): Lembaga Penelitian Universitas Siliwangi ISSN 0854-4611 (Dec 1997) v. 5(16) p. 11-14 4 ref.

FOREST FIRES; FINANCIAL SITUATION; LOSSES.

L01 ANIMAL HUSBANDRY / PETERNAKAN

0196 JARMANI, S.N. [Socialization of goat milk: strategies for nutrient increasing and rural society welfare]. Pemasarakatan susu kambing: strategi untuk meningkatkan gizi dan kesejahteraan masyarakat pedesaan/Jarmani, S.N.; Aminah, S.; Sriwahyuni (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 781-786 11 tables; 8 ref. Summary (In)

GOAT MILK; NUTRIENTS; SOCIAL WELFARE; RURAL COMMUNITIES.

0197 NATASASMITA, S. [Fatty acid composition of local cattle and buffalo meat on different ages]. Komposisi asam lemak daging dari sapi dan kerbau lokal pada umur yang berbeda/Natasasmita, S. (Institut Pertanian Bogor (Indonesia). Fakultas Peternakan). Media Peternakan (Indonesia) ISSN 0126-0472 (1999) v. 22(2) p. 43-46 5 tables; 8 ref. Summary (En)

BEEF; BUFFALO MEAT; FATTY ACIDS; AGE; CHEMICAL COMPOSITION.

0198 PRIYANTO, D. [Sheep rearing technique through increasing mother sheep rearing scale in dryland area]. Pengembangan usaha ternak domba melalui peningkatan skala pemeliharaan induk di daerah lahan kering: analisis ekonomik usahaternak/Priyanto, D.; Sudaryanto, B. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19

19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 805-814 7 tables; 12 ref. Summary (In)

SHEEP; REARING TECHNIQUES; PRODUCTION INCREASE; DRY FARMING; ECONOMIC ANALYSIS.

0199 RANGKUTI, M. [Roles of husbandry on conservation farming system at critical hill areas]. Peranan peternakan dalam sistem usaha tani konservasi di kawasan perbukitan kritis/Rangkuti, M. (Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/ Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 21-27 6 tables; 10 ref.

ANIMAL HUSBANDRY; FEED GRASSES; WATERSHED MANAGEMENT; ALLEY CROPPING; STRIP CROPPING; HIGHLANDS.

0200 SEJATI, W.K. [Profile of sheep rearing in Jalancagak, Subang, West Java, Indonesia]. Profil usaha ternak domba di Kecamatan Jalancagak, Kabupaten Subang/Sejati, W.K.; Ashari; Adiati, U.; Mawi, S.; Juarini, E. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 797-804 6 tables; 5 ref. Summary (In)

SHEEP; REARING TECHNIQUES; FEEDS; MARKETING.

0201 SETIYANTO, H. [Profile of sheep rearing in Tegal (Indonesia)]. Profil usaha peternakan kambing perah di Kotamadya Tegal/Setiyanto, H.; Sunarlim, R. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary,

Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 767-773 4 tables; 15 ref. Summary (In)

SHEEP; MILK PRODUCTION; POST-HARVEST TECHNOLOGY; ECONOMIC ANALYSIS.

0202 SIREGAR, A.R. [Increasing of two utilizing buffalo production (meat and milk)]. Peningkatan produktivitas kerbau Dwiguna (daging dan susu)/Siregar, A.R.; Situmorang, P.; Zulbardi, M.; Batubara, L.P.; Wilson, A.; Basuno, E.; Sinulingga, S.E.; Sirait, C.H. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar of Animal Husbandry and Veterinary, Bogor 18-19 November 1997: Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997: Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 571-584 8 tables; 27 ref.

WATER BUFFALOES; PRODUCTION INCREASE; MEAT; MILK; BODY MEASUREMENTS; BODY WEIGHT; REPRODUCTION; FEEDS.

0203 SRIWAHYUNI. [Model and technology for goat development]. Model dan teknologi untuk pengembangan ternak kambing/Sriwahyuni; Wahyuning K.S.; Wilson, A. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 787-796 1 ill.; 11 tables; 8 ref. Summary (In)

GOATS; MODELS; TECHNOLOGY.

0204 SURYATI, T. [Fatty acid composition of Longissimi thorachis et lumbarum muscle and pelvic fat from mature buffalo, Balinese and Peranakan Ongole cattle. Komposisi asam

lemak otot *Longissimi thorachis* et lumbarum dan lemak pelvis kerbau, sapi Bali dan Peranakan Ongole dewasa/Suryati, T. (Institut Pertanian Bogor (Indonesia). Fakultas Peternakan). Media Peternakan (Indonesia) ISSN 0126-0472 (1999) v. 22(2) p. 47-51 2 tables; 15 ref. Summary (En)

BEEF; BUFFALO MEAT; CHEMICAL COMPOSITION; FATTY ACIDS; MUSCLES.

L02 ANIMAL FEEDING / MAKANAN TERNAK

0205 KARYONO. [Alternative feeds for layer ducks]. Pakan alternatif itik petelur/Karyono (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 38 and 45 1 ill.

DUCKS; FEEDS; PROXIMATE COMPOSITION; CONCENTRATES.

0206 KARYONO. [Substitution for factory feeds]. Pakan pabrik bisa disubstitusi/Karyono (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(341) p. 72-73. 2 ill

BROILER CHICKENS; FEEDS; PRODUCTION COSTS

0207 PAMUNGKAS, D. [Study of conventional green feed using as ruminant feed bank]. Kajian pemanfaatan hijauan pakan konvensional sebagai bank pakan ternak ruminansia/Pamungkas, D.; Wardhani, N.K.; Rasyid, A.; Aryogi (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Grati-Pasuruan (Indonesia)). [Proceeding of the National Seminar on Animal Husbandry and Veterinary, Bogor 18-19 November 1997. Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997. Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 651-659 11 tables; 5 ref.

RUMINANTS; GREEN FEED; CROP PERFORMANCE; GROWTH RATE; YIELDS; QUALITY.

0208 UNTUNG, O. [Fattening cattle by rumen liquor]. Menggemukkan sapi dengan cairan perut/Untung, O.; Karyono (Trubus, Jakarta (Indonesia)). Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 22-23 2 ill.

CATTLE; RUMEN MICROORGANISMS; FATTENING.

L10 ANIMAL GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TERNAK

0209 DEPARTEMEN PERTANIAN. [Government launches INSAPP (Artificial insemination of beef cattle for raising livestock population)]. Pemerintah meluncurkan INSAPP untuk meningkatkan populasi ternak/Departemen Pertanian, Jakarta (Indonesia). Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 41-42

LIVESTOCK; ARTIFICIAL INSEMINATION; POPULATION GROWTH; GOVERNMENT.

L20 ANIMAL ECOLOGY / EKOLOGI HEWAN DARAT

0210 HEIJ, C.J. The behaviour of the Moluccan megapode, *Eulipoa wallacei* (Aves: Megapodidae) in nesting grounds/Heij, C.J.. Treubia (Indonesia): A Journal on Zoology of the Indo-Australian Archipelago ISSN 0082-6340 (1997) v. 31(2) p. 169-176 5 ill., 6 ref. Summary (En)

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

L51 ANIMAL PHYSIOLOGY - NUTRITION / FISILOGI TERNAK - NUTRISI

0211 SIREGAR, A.R. [Characteristic of nutrition performance, rumen microbe, blood morphology and population dynamics of water buffaloes in Java Island (Indonesia)]. Karakteristik performan nutrisi, mikroba rumen,

morfologi darah dan dinamika populasi kerbau lumpur di pulau Jawa/Siregar, A.R.; Diwyanto, K.; Basuno, E.; Thalib, A.; Sartika, T.; Matondang, R.H.; Bestari, J.; Zulfardi, M.; Sitorus, M.; Panggabean, T.; Handiwirawan, E. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar of Animal Husbandry and Veterinary, Bogor 18-19 November 1997: Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997: Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 555-570 18 tables; 10 ref.

WATER BUFFALOES; ANIMAL NUTRITION; POPULATION DYNAMICS; BODY MEASUREMENTS; RUMEN; BLOOD PLASMA; PROGESTERONE; JAVA.

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

0212 TRIWULANINGSIH, E. [Frozen of embryo with various cryoprotectant and freezing methods]. Pembekuan embrio dengan berbagai cryoprotectant dan metode pembekuan/Triwulaningsih, E. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar of Animal Husbandry and Veterinary, Bogor 18-19 November 1997: Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997: Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 359-370 4 tables; 11 ref.

CATTLE; ANIMAL EMBRYOS; CRYO-PROTECTANTS; OSMOTIC PRESSURE; FREEZING; VITRIFICATION.

L53 ANIMAL PHYSIOLOGY - REPRODUCTION / FISILOGI TERNAK - REPRODUKSI

0213 TRIWULANINGSIH, E. [Interferon, receptor oxytocin and its relation with mother identification for pregnancy]. Interferon, reseptor oxytocin dan hubungannya dengan pengenalan induk terhadap kebuntingan/

Triwulaningsih, E. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceeding of the National Seminar of Animal Husbandry and Veterinary, Bogor 18-19 November 1997: Book 2]. Prosiding Seminar Nasional Peternakan dan Veteriner, Bogor 18-19 November 1997: Jilid 2/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1998 p. 351-358 14 ref.

CATTLE; PREGNANCY; INTERFERONS; OXYTOCIN.

L60 ANIMAL TAXONOMY AND GEOGRAPHY / TAKSONOMI HEWAN DAN SEBARAN GEOGRAFINYA

0214 MAHARADATUNKAMSI. Morphological variation in *Eonycteris spelaea* (Chiroptera: Pteropodidae) from the Greater and Lesser Sundas islands, Indonesia and description of a new subspecies/Maharadatunkamsi (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); Kitchener, D.J.. *Treubia* (Indonesia): A Journal on Zoology of the Indo-Australian Archipelago ISSN 0082-6340 (1997) v. 31(2) p. 133-168 15 ill., 8 tables; 15 ref. Summary (En)

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

0215 MARYANTO, I. Morphological variation in the Ebony and Silver leaf Monkeys [*Trachypithecus auratus* (E. Geoffroy, 1812) and *Trachypithecus cristatus* (Raffles, 1812)] from Southeast Asia/Maryanto, I. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)); Mansjoer, I.; Sajuthi, D.; Supriatna, J. *Treubia* (Indonesia): A Journal on Zoology of the Indo-Australian Archipelago ISSN 0082-6340 (1997) v. 31(2) p. 113-131 10 ill., 5 tables; 22 ref. Summary (En)

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

0216 MULYADI. Taxonomy and distribution of the family Candaciidae in Indonesian coastal waters/Mulyadi (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). *Treubia* (Indonesia): A Journal on Zoology of the Indo-Australian Archipelago ISSN 0082-6340 (1997) v. 31(2) p. 65-112 16 ill., bibl. p. 110-112. Summary (En)

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

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

0217 ANON. [Mad cow in relation with beef imported from Ireland]. Bovine spongiform encephalopathy (BSE) dalam kaitannya dengan rencana impor daging sapi dari Irlandia/Anon. (Balai Penelitian Veteriner, Bogor (Indonesia)). *Balivet Newsletter* (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 17-18 1 table

SPONGIFORM ENCEPHALOPATHY; IMPORTS; BEEF; DIAGNOSIS; INDONESIA; IRELAND.

L73 ANIMAL DISEASES / PENYAKIT TERNAK

0218 ADJID, R.M.A. [Foot and mouth disease control in Indonesia on 1983]. Pemberantasan wabah penyakit mulut dan kuku di Indonesia pada tahun 1983/Adjid, R.M.A. (Balai Penelitian Veteriner, Bogor (Indonesia)). *Balivet Newsletter* (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 3-6

FOOT AND MOUTH DISEASE; DISEASE CONTROL; IMMUNOLOGY; VACCINES; DISEASE CONTROL; INDONESIA.

0219 BAHRI, S. [Keep on guard against foot and mouth disease in Indonesia: a study from India meat]. Mewaspadaai masuknya penyakit mulut dan kuku ke Indonesia: suatu kajian dari

polemik daging India/Bahri, S. (Balai Penelitian Veteriner, Bogor (Indonesia)). Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 10-17 5 tables

MEAT; FOOT AND MOUTH DISEASE; DISEASE CONTROL; REGULATIONS; IMPORT CONTROLS; INDIA; INDONESIA.

0220 DARMINTO. [Zoonoses in relation to encephalitis]. Penyakit-penyakit zoonosis yang berkaitan dengan ensefalitis/Darminto (Balai Penelitian Veteriner, Bogor (Indonesia)). Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 23-28 1 table

ZOONOSES; ENCEPHALITIS; VECTORS; LABORATORY DIAGNOSIS; IMPORTS; INDONESIA.

0221 HUTABARAT, T.S.D.N. [Maintaining Indonesia to be free from foot and mouth disease]. Kebijakan untuk mempertahankan Indonesia bebas penyakit mulut dan kuku (PMK)/Hutabarat, T.S.D.N. (Balai Penelitian Veteriner, Bogor (Indonesia)). Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 6-9

FOOT AND MOUTH DISEASE; DISEASE CONTROL; REGULATIONS; VETERINARY HYGIENE; INDONESIA.

0222 SENDOW, J. [Japanese encephalitis and its effects]. Japanese encephalitis dan dampak yang ditimbulkannya/Sendow, J. (Balai Penelitian Veteriner, Bogor (Indonesia)). Balitvet Newsletter (Indonesia) ISSN 0215-8949 (1999) v. 14(1) p. 18-22

JAPANESE ENCEPHALITIS VIRUS; VECTORS; PATHOLOGY; SYMPTOMS; EPIDEMIOLOGY; LABORATORY DIAGNOSIS.

0223 TAUPIK, I. Control of *Vibrio harveyi* infection in rearing of *Penaeus monodon* larvae biologically using phytoplankton. Pengendalian infeksi bakteri *Vibrio harveyi* pada pemeliharaan larva udang windu secara biologis dengan fitoplankton/Taupik, I. (Loka Penelitian Perikanan Pantai Gondol-Bali (Indonesia)).

Jurnal Mikrobiologi Tropika (Indonesia) ISSN 0852-937X (1997) v. 1(2) p. 97-99 3 tables; 9 ref. Summary (En)

PENAEUS MONODON; VIBRIO; PHYTOPLANKTON; LARVAE; BIOLOGICAL CONTROL; DENSITY; SURVIVAL.

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

0224 DEPARTEMEN PERTANIAN. [The need of maximum utilization of fishery resources]. Perlunya pemanfaatan sumberdaya perikanan secara maksimal/Departemen Pertanian, Jakarta (Indonesia). Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 8-9

RESOURCE MANAGEMENT; MARINE FISHERIES.

0225 SUKADI, M.F. [Fishery resources and marine environment: The contribution of consideration to anticipate the regulation number 22/1999]. Sumber daya ikan dan lingkungan sumbangan pemikiran menyongsong diberlakukannya U.U. No. 22/1999/Sukadi, M.F.; Badrudin (Balai Penelitian Perikanan Laut, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(4) p. 2-6 7 ref.

INDONESIA; FISHERY RESOURCES; LIFE CYCLE; POPULATION DYNAMICS; NURSERY GROUNDS; MIGRATION.

0226 WIDIASTUTI, E. [Biology of *Lates calcarifer*]. Biologi kakap putih (*Lates calcarifer*, Bloch.)/Widiastuti, E.; Hartono, P.; Sudaryanto. [Hatchery of *Lates calcarifer* Bloch.]. Pembenuhan ikan kakap putih/Sudjiharto; Anindiastuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya. Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 3-8 1 ill., 7 ref.

LATES CALCARIFER; TAXONOMY; ANIMAL MORPHOLOGY; LIFE CYCLE; FEEDING

HABITS; LARVAE; REPRODUCTION;
ANIMAL DEVELOPMENTAL STAGES.

**M11 FISHERIES PRODUCTION /
PRODUKSI PERIKANAN**

0227 ISMAIL, W. [Some factors affecting the slow development of marine culture]. Mengapa budi daya laut di Indonesia lambat berkembang/ Ismail, W. (Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(3) p. 15-21 2 ill., 5 ref.

INDONESIA; AQUACULTURE; MARINE RESOURCES.

0228 MUBARAK, H. [Squids catch in the Alas Strait (West Nusa Tenggara), Indonesia]. Penangkapan cumi-cumi di Selat Alas (Nusa Tenggara Barat)/Mubarak, H.; Suprpto (Balai Penelitian Perikanan Laut, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(3) p. 2-10 6 ill., 9 ref.

LOLIGO; SQUIDS; FISHING METHODS;
FISHING GROUNDS; FISHING NETS; NUSA TENGGARA.

0229 SUDARSONO, A. [Location selection of *Lates calcarifer* culture]. Pemilihan lokasi/ Sudarsono, A.; Al-Qodri, A.H.; Sudjiharno. [Hatchery of *Lates calcarifer* Bloch]. Pembenuhan ikan kakap putih/Sudjiharto; Anindiausti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya . Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 9-17 2 tables; 4 ref.

LATES CALCARIFER; SITE FACTORS;
WATER QUALITY; SALINITY; PH;
POLLUTION; TEMPERATURE.

**M12 AQUACULTURE PRODUCTION
AND MANAGEMENT / PRODUKSI
DAN PENGELOLAAN BUDIDAYA
PERAIRAN**

0230 DADANG W.I. [Gift Tilapia a new hope for fish farmers]. Nila gift harapan baru petani

ikan/Dadang W.I. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(340) p. 18-19 1 ill.

OREOCHROMIS NILOTICUS; AQUA-CULTURE.

0231 DEPARTEMEN PERTANIAN. [Culture of *Macrobrachium rosenbergii* and its prospect]. Budidaya udang galah dan prospeknya/Departemen Pertanian, Jakarta (Indonesia). Pertanian Indonesia (Indonesia): Agribisnis dan Agroindustri (1999) (no. 03) p. 42-43

PRAWNS AND SHRIMPS; AQUACULTURE;
PRODUCTION POSSIBILITIES.

0232 JULIATY, E. [Zooplankton culture]. Kultur zooplankton/Juliaty, E.; Sapta, A.I.M.; Puja, Y. [Hatchery of *Lates calcarifer* Bloch]. Pembenuhan ikan kakap putih/Sudjiharto; Anindiausti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya . Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 37-41 5 ref.

ZOOPLANKTON; FISH FEEDING; ANIMAL MORPHOLOGY; CULTURE TECHNIQUES; HARVESTING.

0233 KRISMONO, A.S.N. [Environmental management of fish culture in floating net cages]. Pengelolaan lingkungan budidaya ikan di karamba jaring apung/Krismono, A.S.N. (Instalasi Penelitian Perikanan Air Tawar Jatiluhur, Jawa Barat (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(4) p. 15-18 3 tables; 11 ref.

INDONESIA; FISH CULTURE; FISHING NETS; FISHERY MANAGEMENT; WATER QUALITY.

0234 MANSYUR, A. [Introducing mantis shrimp as a new alternative of food resource]. Mengenal udang mantis sebagai upaya menggali potensi pangan baru/Mansyur, A. (Balai Penelitian Perikanan Pantai, Maros (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(4) p. 13-15 3 ref.

MALACOSTRACA; AGRICULTURAL PRODUCTS; EXPORTS; FISHERY RESOURCES.

0235 PUJA, Y. [Phytoplankton culture]. Kultur phytoplankton/Puja, Y.; Wahyuni, K.A.; Rusyani, E.. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiasuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 30-36 2 tables; 2 ref.

PHYTOPLANKTON; FISH FEEDING; CULTURE TECHNIQUES; FERTILIZER APPLICATION; HARVESTING.

0236 SANTOSA, H. [*Lates calcarifer* egg production]. Produksi telur/Santosa, H.; Mustamin; Hermawan, A. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiasuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya. Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 48-54 1 table; 4 ref.

LATES CALCARIFER; OVA; CAGE CULTURE; FEEDS; OVIPOSITION; FISHING NETS; REARING TECHNIQUES.

0237 SUPRIYA. [Artemia culture techniques]. Teknik kultur udang renik/Supriya; Hidayat, A.S.; Sudaryanto. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiasuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya. Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 42-47 2 ref.

ARTEMIA; CULTURE TECHNIQUES; NURSERY GROUNDS; BIOMASS; FEEDS; FEEDING SYSTEMS; HATCHING.

0238 SUSANTO B. [Utilization of brackish water ponds (formerly salt producing ponds) for artemia's cyst production]. Pemanfaatan tambak garam di daerah pesisir untuk produksi kista artemia/Susanto B.; Sugama, K.; Aslianti, T.;

Wahyuadi, K. (Loka Penelitian Perikanan Pantai Gondol, Bali (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(3) p. 10-14 2 ill., 3 tables; 14 ref.

ARTEMIA; COASTS; SALTMARSHES; CYSTS; DRYERS; POSTHARVEST EQUIPMENT.

0239 SUTRISNO, E. [Rearing technique of *Lates calcarifer*]. Pemeliharaan larva/Sutrisno, E.; Santosa, H.; Antoro, S. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiasuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya. Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 55-60 1 ill., 2 tables; 2 ref.

LATES CALCARIFER; FISH LARVAE; SELECTION; OVA; GRADING; STOCKING DENSITY; FEEDS.

0240 WIBOWO, S. [Elimination of constraint of live prawn marketing]. Mengikis kendala pemasaran udang hidup/Wibowo, S.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(338) p. 42-43 2 ill.

PRAWNS AND SHRIMPS; TRANSPORT OF ANIMALS; SURVIVAL; MARKETING.

M40 AQUATIC ECOLOGY / EKOLOGI PERAIRAN

0241 SUWARSO. [Environmental control of *Tenualosa macrura* fishery in Riau Province (Indonesia)]. Pengendalian lingkungan perikanan terubuk, *Tenualosa macrura* (Clupeoidei) di Propinsi Riau/Suwarso; Wasilun; Merta, I.G.S. (Balai Penelitian Perikanan Laut, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853-894 (1999) v. 5(4) p. 6-13 5 ill., 14 ref. Appendix

CLUPEOIDEI; POPULATION DYNAMICS; RESTOCKING; HABITATS; FEEDING HABITS; PLANKTON; BIOLOGICAL CONTROL; SUMATRA.

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

0242 ANINDIASTUTI. [Hatchery equipment of *Lates calcarifer*]. Sarana pembenihan/Anindiastuti; Sudarsono, A.; Sarwono, H.A. [Hatchery of *Lates calcarifer* Bloch]. Pembenihan ikan kakap putih/Sudjiharto; Anindiastuti; Hartono, P.; Santosa, H.; Puja, Y.; Supriya . Bandar Lampung (Indonesia): Balai Budidaya Laut Lampung, 1999 p. 18-29 2 ref.

LATES CALCARIFER; FISH CAGES; EQUIPMENT; FISH CULTURE; AERATION; FRESHWATER; HATCHERIES; LARVAE.

0243 ASTANTO. [Test of flooded rice planting machine]. Pengujian mesin penanaman padi sawah/Astanto (Institut Pertanian Bogor (Indonesia)); Djojomartono, M.; Sembiring, E.N.; Radite, P.A.S.; Ananto, E.E. [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.). Yogyakarta (Indonesia): UGM, 1999 p.213-224 8 tables; 6 ref. Summary (In)

FLOODED RICE; PLANTING EQUIPMENT; TESTING; SEED; GERMINATION; GROWING MEDIA; GROWTH.

0244 RADITE, P.A.S. [Analysis of movement and togel vibration characteristic for vibrated flow]. Analisis gerak dan karakteristik penggetar togel untuk bajak-getar/Radite, P.A.S.; Suastawa, I.N. [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.). Yogyakarta (Indonesia): UGM, 1999 p. 225-234 12 ill., 1 table; 12 ref. Summary (In)

PLOUGHS; TILLAGE EQUIPMENT; SYSTEMS ANALYSIS; SOIL FERTILITY.

0245 RISFAHERI. [Design of vanilla postharvest equipment]. Rancang bangun alat pasca panen panili/Risfaheri; Rusli, S.; Hidayat,

T. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 114-120. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 9 ill., 6 ref.

VANILLA PLANIFOLIA; FOOD TECHNOLOGY; DRYING; WILTING; DRYERS; POSTHARVEST EQUIPMENT.

0246 WIDODO. [Design of Landak weeding equipment prototype]. Rancangan bangun prototipe alat penyiang Landak/Widodo (Universitas Gadjah Mada, Yogyakarta (Indonesia)). [Proceeding of the National Seminar and Seventh Congress on Agricultural Technique Organization; v. 2]. Prosiding Seminar Nasional dan Kongres 7 Perhimpunan Teknik Pertanian (PERTETA); v. 2/Susanto, S.; Rahardjo, B.; Purwadi, T. (eds.) . Yogyakarta (Indonesia): UGM, 1999 p. 247-255 1 table; 5 ref. Summary (In)

ORYZA SATIVA; WEED CONTROL EQUIPMENT; WEEDING; PROTOTYPES.

**P01 NATURE CONSERVATION AND
LAND RESOURCES / KONSER-
VASI SUMBERDAYA ALAM DAN
SUMBERDAYA LAHAN**

0247 BADAN PERENCANAAN PEMBANGUNAN DAERAH TINGKAT I KALIMANTAN TIMUR. [The need of land resources data and agricultural technology for area development increase]. Keperluan data sumberdaya lahan dan teknologi pertanian untuk meningkatkan pembangunan daerah/Badan Perencanaan Pembangunan Daerah Tingkat I Kalimantan Timur. [Proceeding on the Consultation Meeting of Land Resources for the development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. (eds.). Bogor (Indonesia): PUSLITTANAK, 1997 p. 31-43 2 ill., 9 tables

KALIMANTAN; AGRICULTURAL DEVELOPMENT; LAND RESOURCES.

0248 DARHAM, H.M.S. [The need of land resources data and agricultural technology in supporting agricultural development of South Kalimantan (Indonesia)]. Keperluan data sumberdaya lahan dan teknologi pertanian dalam menunjang pembangunan pertanian di Kalimantan Selatan/Darham, H.M.S. (Badan Perencanaan Pembangunan Daerah Tingkat I Kalimantan Selatan (Indonesia)). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. Bogor (Indonesia): PUSLIT-TANAK, 1997 p. 11-21 1 table

KALIMANTAN; AGRICULTURAL DEVELOPMENT; LAND RESOURCES; DEVELOPMENT POLICIES.

0249 ISPANDI, A. [Cassava culture base on productivity improvement and soil conservation at dry lime land]. Budidaya ubikayu berwawasan peningkatan produktivitas dan konservasi tanah di lahan kering kapuran/Ispandi, A. (Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 150-165 8 tables; 15 ref. Summary (In). Appendices

MANIHOT ESCULENTA; ARACHIS HYPOGAEA; ZEA MAYS; FERTILIZER APPLICATION; MULTIPLE CROPPING; YIELDS; SOIL ANALYSIS; LAND MANAGEMENT; DRY FARMING; CHALK SOILS; JAVA.

0250 KESA, D.D. [Conservation of mangrove in Segara Anakan, West Java (Indonesia)]. Mangrove di Segara Anakan: warisan dunia yang perlu dijaga/Kesa, D.D. (Universitas Jenderal Soedirman, Purwokerto (Indonesia)). Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963x (1999) v. 8(1) p. 10-11 2 ill.

MANGROVES; NATURE CONSERVATION; JAVA.

0251 NATASUWARNA, H.P. [Land resources development and agricultural technology in facing second stage national development (PJPT 2) in West Kalimantan (Indonesia)]. Pengembangan sumberdaya lahan dan teknologi pertanian dalam menyongsong PJP II di Kalimantan Barat/Natasuwarna, H.P. (Badan Perencanaan Pembangunan Daerah Tingkat I Kalimantan Barat (Indonesia)). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. Bogor (Indonesia): PUSLIT-TANAK, 1997 p. 23-29 1 table

KALIMANTAN; LAND RESOURCES; AGRICULTURAL DEVELOPMENT; RESOURCE MANAGEMENT.

0252 NUGROHO, K. [Delineation of land typology for determining the utilization of tidal swamp land resources, lowland, and coastal in Kalimantan (Indonesia)]. Delineasi tipologi lahan untuk penentuan pola pemanfaatan sumberdaya lahan rawa pasang surut, lebak, dan pantai di Kalimantan/Nugroho, K.; Djohar, H.H.; Widjaja-Adhi, I.P.G. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. (Eds.) . Bogor (Indonesia): PUSLIT-TANAK, 1997 p. 235-249 4 tables; 17 ref. Summary (In)

KALIMANTAN; LAND CLASSIFICATION; LAND RESOURCES; LOWLAND; COASTAL SOILS; SWAMP SOILS.

0253 PRASETYO, B. [Institutional perspective of conservation farming system, an institutional review: a case of UACP/P2LK2T project]. Perspektif pelebagaan sistem usahatani konservasi suatu kajian kelembagaan: kasus proyek UACP/P2LK2T/Prasetyo, B.; Muslim,

C. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usahatani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 291-295 2 tables; 5 ref. Summary (In)

AGRICULTURAL DEVELOPMENT;
DEVELOPMENT AGENCIES; LAND
MANAGEMENT.

0254 THAMRIN, M. [Strategy of land and plant management on conservation farming systems on karst area in Gunungkidul resident (Indonesia)]. Strategi penataan lahan dan tanaman dalam sistem usahatani konservasi di wilayah karst Kabupaten Gunungkidul/Thamrin, M.; Sudihardjo, A.M.; Musofie, A. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems] Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 135-141 1 ill., 4 tables; 9 ref.

JAVA; KARST SOILS; LAND
PRODUCTIVITY; PLANT PRODUCTION;
CONSERVATION TILLAGE; CROPPING
SYSTEMS; LAND SUITABILITY.

P10 WATER RESOURCES AND MANAGEMENT / SUMBERDAYA AIR DAN PENGELOLAANNYA

0255 ANTARIKSAWAN, A.R. An experimental investigation of water-molten metal interaction/Antariksawan, A.R.. Atom Indonesia (Indonesia) ISSN 0126-1568 (1996) v. 22(2) p. 13-24 3 ill., 7 tables; 3 ref. Summary (En)

WATER VAPOUR; AGRICULTURAL
STRUCTURE; TEMPERATURE; EQUIP-
MENT CHARACTERISTICS; FLUORIDES.

0256 IDJUDIN, A.A. [Surface water conservation with "embung" reservoir system and utilization on dry land critical hill areas at Daerah Istimewa Yogyakarta (Indonesia)]. Konservasi air permukaan dengan sistem embung dan pemanfaatannya di lahan kering perbukitan kritis Propinsi Daerah Istimewa Yogyakarta/Idjudin, A.A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 123-128 2 tables; 13 ref.

JAVA; SURFACE WATER; WATER
CONSERVATION; WATER RESERVOIRS;
WATER MANAGEMENT; DRY FARMING;
MARGINAL LAND.

P31 SOIL SURVEYS AND MAPPING / SURVEI DAN PEMETAAN TANAH

0257 MULYANI, A. [Soil mapping and its inventory mapping in Kalimantan]. Kegiatan inventarisasi dan pemetaan tanah di pulau Kalimantan/Mulyani, A.; Sunyoto, Rb.; Soekardi, M. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. (Eds.). Bogor (Indonesia): PUSLITTANAK, 1997 p. 269-300 3 ill., 4 tables; 5 ref. Summary (In)

KALIMANTAN; SOIL SURVEYS;
CARTOGRAPHY; SOIL SUITABILITY;
LAND SUITABILITY.

0258 SUBARDJA, D. [Soil mapping of LREP-2 (second land resource evaluation and planning project) at Kalimantan (Indonesia)]. Kegiatan pemetaan tanah proyek LREP II di Kalimantan/Subardjo, D. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceeding on the Consultation Meeting of

Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. (eds.) . Bogor (Indonesia): PUSLITTANAK, 1997 p. 135-142 1 ill., 3 tables; 2 ref.

KALIMANTAN; CARTOGRAPHY; PROJECT MANAGEMENT; SOIL SURVEYS.

0259 SUTARDI. [Application of specific location technology based on agroecosystem zone on region level in Daerah Istimewa Yogyakarta (Indonesia)]. Penerapan teknologi spesifik lokasi berdasarkan zona agroekosistem tingkat tinjau di D.I. Yogyakarta/Sutardi; Ngadimin, H.; Budiono (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1998 p. 5-11 1 ill., 3 tables, 10 ref. Summary (In)

JAVA; LANDSCAPE; AGROECOSYSTEMS; AGROFORESTRY; LAND SUITABILITY; FARM MANAGEMENT; FARMING SYSTEMS; APPROPRIATE TECHNOLOGY.

0260 SUTARDI. [Application of specific location technology based on detailed agroecosystem zone of Kulonprogo, Daerah Istimewa Yogyakarta (Indonesia)]. Penerapan teknologi spesifik lokasi berdasarkan zona agroekosistem tingkat detail di Kulonprogo, propinsi Daerah Istimewa Yogyakarta/Sutardi; Budiono; Ngadimin, H. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings of Scientific Seminar and Workshop of Technology on Specific Location for Agricultural Developing with Agrobusiness Orientation]. Prosiding Seminar Ilmiah dan Lokakarya Teknologi Spesifik Lokasi Dalam Pengembangan Pertanian dengan Orientasi Agribisnis/Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia) . Yogyakarta (Indonesia): IPPTP, 42

1998 p. 12-22 2 ill., 4 tables, 11 ref. Summary (In)

JAVA; CARTOGRAPHY; LANDSCAPE; LAND CLASSIFICATION; LAND SUITABILITY; AGROECOSYSTEMS; FARMING SYSTEMS; APPROPRIATE TECHNOLOGY; AGRICULTURAL DEVELOPMENT.

P32 SOIL CLASSIFICATION AND GENESIS / KLASIFIKASI DAN PEMBENTUKAN TANAH

0261 BRAHMANTYO, B. [Geological aspects of wetland in Indonesia]. Lahan basah di Indonesia ditinjau dari aspek geologi/Brahmantyo, B. (Institut Teknologi Bandung (Indonesia)). Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963x (1999) v. 8(1) p. 14-15,18

INDONESIA; WETLANDS; GEOLOGY.

P33 SOIL CHEMISTRY AND PHYSICS / KIMIA DAN FISIKA TANAH

0262 MACHFUDZ. [Soil characteristic of Madura tobacco]. Sifat tanah tembakau Madura/Machfudz; Sholeh, M. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 24-32. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 6 ref. Appendices

MADURA; SOIL TYPES; LAND SUITABILITY.

P34 SOIL BIOLOGY / BIOLOGI TANAH

0263 UTAMI, K.P. [Rhizo-plus increasing 40 percent of soybean production]. Rhizo-plus meningkatkan produksi kedelai 40 persen/Utami, K.P.. Trubus (Indonesia) ISSN 0128-0057 (Jan 1998) v. 29(342) p. 74 1 ill.

GLYCINE MAX; RHIZOBIUM; YIELDS.

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

0264 IDJUDIN, A.A. [Technical approach on conservation farming system on agriculture sustainable development perspective in hill agroecology zone at Daerah Istimewa Yogyakarta (Indonesia) province]. Pendekatan teknik usaha tani konservasi dalam perspektif pembangunan pertanian berkelanjutan di zona agroekologi perbukitan propinsi Daerah Istimewa Yogyakarta/Idjudin, A.A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 39-52 4 tables; 13 ref. Appendices

JAVA; HIGHLANDS; MARGINAL LAND; AGROCLIMATIC ZONES; SOIL CHEMICO-PHYSICAL PROPERTIES; LAND MANAGEMENT; WATER CONSERVATION; CONSERVATION TILLAGE; AGRICULTURAL DEVELOPMENT.

0265 PRAMONO, J. [Assessment of development pattern of conservation farming system on dry land at main watershed area]. Kajian pengembangan pola usahatani konservasi di lahan kering daerah aliran sungai (DAS) bagian hulu/Pramono, J.; Djuanda, D.; Hermawan, A. (Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usahatani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 323-334 5 tables; 4 ref. Appendices. Summary (In)

FARMING SYSTEMS; DRY FARMING; WATERSHEDS; CONSERVATION TILLAGE; MULTIPLE LAND USE; TERRACE CROPPING; EROSION CONTROL

PLANTS; LAND MANAGEMENT; HIGHLANDS.

0266 PRAWIRADIPUTRA, B.R. [Green feed legume as a factor on conservation farming system model in dry land]. Faktor hijauan pakan dalam model sistem usaha tani konservasi di lahan kering/Prawiradiputra, B.R. (Balai Penelitian Ternak, Ciawi (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 159-167 4 tables; 8 ref. Appendices

GREEN FEED; ALLEY CROPPING; CONSERVATION TILLAGE; YIELDS; EROSION; DRY FARMING.

0267 SUBAGYONO, K. [Acid sulphate soils reclamation in Kalimantan: A review on the result of research and development in farmers' land]. Reklamasi lahan pasang surut bertanah sulfat masam di Kalimantan: Tinjauan hasil penelitian dan pengembangan lahan petani/Subagyono, K.; Suwardjo, H.; Widjaja-Adhi, I.P.G. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceeding on the Consultation Meeting of Land Resources for the Development of Kalimantan]. Prosiding Temu Konsultasi Sumberdaya Lahan untuk Pembangunan Wilayah Kalimantan/Suhardjo, H.; Adi, A.; Abujamin, S.; Aprillani, S.E.; Mulyani, A. . Bogor (Indonesia): PUSLIT-TANAK, 1997 p. 207-233 8 ill., 10 tables; 23 ref. Summary (In)

KALIMANTAN; RECLAMATION; ACID SULPHATE SOILS; SWAMP SOILS; WATER MANAGEMENT; DRAINAGE; SOIL MANAGEMENT.

0268 SUDJATMO. [Conservation farming system on sustainable development program in critical hill areas of Daerah Istimewa Yogyakarta (Indonesia)]. Sistem usaha tani konservasi dalam program pengembangan wilayah perbukitan kritis yang berkelanjutan DI Yogyakarta/Sudjatmo (Badan Perencanaan

Pembangunan Daerah, Yogyakarta (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 1-5

HIGHLANDS; MARGINAL LAND; LAND MANAGEMENT; WATERSHED MANAGEMENT; EROSION; CONSERVATION TILLAGE.

0269 SUKAMTO. [Soil damaged and land ownership: case study in Gunungkidul resident (Indonesia)]. Kerusakan tanah dan status tanah: studi kasus di Kabupaten Gunungkidul/Sukamto (Sekolah Tinggi Pertanahan Nasional, Yogyakarta (Indonesia)); Oloan S.; Senthot S.; Silalahi, S.B.. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 93-109 3 tables; 10 ref. Appendices

JAVA; MARGINAL LAND; LAND CLASSIFICATION; LAND OWNERSHIP.

0270 SUTRISNO. [Leguminosae cover plants culture on development of conservation farming system in erosion critical land]. Budidaya tanaman penutup tanah leguminosa dalam rangka pengembangan usaha tani konservasi di lahan kritis rawan erosi/Sutrisno; Samaullah, M.Y. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems] Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 247-251 1 ill.; 6 ref.

CALOPOGONIUM MUCUNOIDES; CENTROSEMA PLUMIERI; COVER PLANTS; GREEN MANURES; LAND

MANAGEMENT; STRIP CROPPING; TERRACE CROPPING.

P40 METEOROLOGY AND CLIMATOLOGY / CUACA DAN IKLIM

0271 FATHONY, M. Irradiation temperature effects on the characteristics of TLDs: lithium fluorides/Fathony, M. Atom Indonesia (Indonesia) ISSN 0126-1568 (1996) v. 22(2) p. 1-12 3 ill., 18 ref. Summary (En)

LITHIUM; IRRADIATION; EQUIPMENT CHARACTERISTICS; PHOSPHORUS.

0272 SHOLEH, M. [Climate characteristic and planting date of Madura tobacco]. Sifat iklim dan penentuan waktu tanam Tembakau Madura/ Sholeh, M.; Machfudz (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 19-23. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 1 ill., 1 table; 9 ref.

NICOTIANA TABACUM; VARIETIES; CLIMATIC ZONES; PLANTING DATE; RAIN; MADURA.

Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN MAKANAN

0273 ASTUTI, M. [Functional foods, concept and their regulation]. Makanan fungsional, konsep dan peraturannya/Astuti, M. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Tehnik Pertanian). Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1997) v. 17(4) p. 29-32 1 table; 15 ref.

FOODS; DESIGN; NUTRITIONAL STATUS; REGULATIONS.

0274 DARSONO. [Study on small scale agroindustry of soyfoods in Surabaya (Indonesia)]. Kajian agroindustri kecil tempe di

Surabaya/Darsono. Mapeta (Indonesia) (1999) v. 1(2) p. 36-42 2 tables; 6 ref. Summary (En)

SOYFOODS; AGROINDUSTRIAL SECTOR; FOOD TECHNOLOGY; EQUIPMENT; CONSTRAINTS.

0275 DJAAFAR, T.F. [Prospect of sorghum for supporting agroindustry on dry land farming system]. Prospek sorgum untuk menunjang agroindustri dalam sistem usaha tani lahan kering/Djaafar, T.F. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)); Mudjisihono, R.; Thamrin, M.. [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 203-210 2 ill., 2 tables; 22 ref.

SORGHUM GRAIN; AGROINDUSTRIAL SECTOR; PROCESSING; FOOD TECHNOLOGY.

0276 HADIWIYOTO, S. [Optimizing of processing time to "bandeng presto" (cooking of milkfish (*Chanos chanos*))]. Optimasi waktu pemasakan bandeng presto/Hadiwiyo, S. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian); Naruki, S. Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1999) v. 19(1) p. 21-24 5 ill., 1 table; 11 ref. Summary (En)

MILKFISH; PROCESSED PRODUCTS; COOKING; FISH PROCESSING; TIME.

0277 MA'MUN. [Oleoresin processing from vanilla]. Oleoresin panili/Ma'mun; Laksmahardja, P. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITRO, 1998 p. 130-134. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 2 tables; 15 ref.

VANILLA PLANIFOLIA; OLEORESINS; PROCESSED PLANT PRODUCTS; FOOD TECHNOLOGY; QUALITY.

0278 MARTATI, E. [Glycerides profile, and EPA (eicosapentaenoat) and DHA (docosaheksaenoat) hydrolysis of cod liver oil by teramobilized lipase from *Mucor miehei*]. Profil Gliserida, dan kandungan EPA (eicosapentaenoat) dan DHA (docosaheksaenoat) hasil hidrolisis minyak hati ikan cod oleh lipase teramobil dari *Mucor miehei*/Martati, E.; Utami, T.; Hastuti, P. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian). Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1999) v. 19(1) p. 5-10 3 ill., 3 tables; 23 ref. Summary (En)

FISH OILS; GLYCERIDES; HYDROLYSIS; COD; LIVER; TRIACYLGLYCEROL LIPASE; RHIZOMUCOR MIEHEI; DISEASE CONTROL; CARDIOVASCULAR DISEASES; NEOPLASMS.

0279 MUNARSO, S.J. [Food technology for supporting agroindustry development of food crops sector at critical hill areas]. Teknologi pengolahan untuk menunjang pengembangan agroindustri tanaman pangan di kawasan perbukitan kritis/Munarso, S.J.; Soejadi; Setyono, A. (Balai Penelitian Tanaman Pangan, Sukamandi (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 265-272 1 ill., 1 table; 14 ref.

FOOD CROPS; PROCESSED FOODS; SNACK FOODS; BAKERY PRODUCTS; FOOD TECHNOLOGY; PROCESSING; AGROINDUSTRIAL SECTOR.

0280 NAPITUPULU, R. Plasmid DNA of *Lactobacillus* from Indonesian traditional fermented foods with interest in developing food grade host-vector system. DNA Plasmid *Lactobacillus* asal makanan fermentasi

tradisional yang berpotensi dalam pengembangan sistem inang-vektor untuk bioteknologi pangan/Napitupulu, R.; Kanti, A.; Yunlineri, T.; Hardiningsih, R.; Julistiono, H. (Pusat Penelitian dan Pengembangan Biologi-LIPI, Bogor (Indonesia). Balitbang Mikrobiologi). *Jurnal Mikrobiologi Tropika (Indonesia)* ISSN 0852-937X (1997) v. 1(2) p. 91-96 1 ill., 1 table; 9 ref. Summary (En)

LACTIC ACID BACTERIA; FERMENTED FOODS; DNA; GENETIC VECTORS; MICROBIOLOGICAL ANALYSIS.

0281 NELWAN, L.O. Simulation on temperature change inside the drying room of a greenhouse effect solar dryer using heat exchanger. Simulasi perubahan suhu ruang pengering efek rumah kaca tanpa beban dengan penggunaan penukar panas/Nelwan, L.O.; Abdullah, K. *Buletin Keteknikan Pertanian (Indonesia)* ISSN 0216-3365 (1998) v. 12(3) p. 23-30 6 ill., 3 tables; 3 ref. Summary (En)

AGRICULTURAL PRODUCTS; GREENHOUSE EFFECT; NATURAL DRYING; TEMPERATURE; HEAT EXCHANGERS; SOLAR RADIATION; PETROLEUM.

0282 NURDJANAH, N. [Vanilla processing]. Pengolahan panili/Nurdjanah, N.; Rusli, S. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 107-113. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 1 table; 7 ref.

VANILLA PLANIFOLIA; FOOD TECHNOLOGY; WILTING; DRYING; STORAGE; HARVESTING; GRADING; QUALITY; JAVA; BALI.

0283 RAHMANSYAH, M. Fermentation pattern of palm (*Borassus flabellifer* L.) syrup. Pola fermentasi gula air lontar (*Borassus flabellifer* L.)/Rahmansyah, M.; Sunarko, B. (Pusat Penelitian dan Pengembangan Biologi-LIPI, Bogor (Indonesia). Balai Penelitian dan Pengembangan Mikrobiologi). *Jurnal Mikrobiologi Tropika (Indonesia)* ISSN 0852-937X

(1997) v. 1(2) p. 64-70 3 ill., 2 tables; 14 ref. Summary (En)

BORASSUS FLABELLIFER; FERMENTATION; YEASTS; ETHANOL; GLYCEROL; ACETIC ACID; ACETALDEHYDE.

0284 SULISTYO, J. Production of partially purified Alpa-D-Xylosidase of *Aspergillus pulverulentus*. Produksi Alpa-D-xilosidase dari *Aspergillus pulverulentus*/Sulistyo, J. (Pusat Penelitian dan Pengembangan Biologi-LIPI, Bogor (Indonesia). Balai Penelitian dan Pengembangan Mikrobiologi). *Jurnal Mikrobiologi Tropika (Indonesia)* ISSN 0852-937X (1997) v. 1(2) p. 76-83 6 ill., 5 tables; 10 ref. Summary (In)

ASPERGILLUS; ENZYMES; PURIFICATION; HYDROLYSIS; ENZYMIC ACTIVITY; AMMONIUM SULPHATE; CHROMATOGRAPHY.

Q03 FOOD CONTAMINATION AND TOXICOLOGY / KONTAMINASI DAN TOKSIKOLOGI PANGAN

0285 ANGGRAHINI, S. [Security aspect of chemical-substance utilization on food product]. Aspek keamanan penggunaan bahan kimia pada produk pangan/Anggrahini, S. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian). *Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian* ISSN 0216-0455 (1997) v. 17(4) p. 1-8 28 ref.

INDONESIA; FOODS; CHEMICALS; PESTICIDES; FOOD SAFETY.

Q04 FOOD COMPOSITION / KOMPOSISI MAKANAN

0286 HUDIYONO, S. Study of mutagenic effect on monomer and dimer fractions of the oxidized frying oil by *Salmonella typhimurium* TA 100. Uji mutagenisitas dengan *Salmonella typhimurium* TA 100 terhadap fraksi monomer dan dimer produk oksidasi termal minyak goreng/Hudiyono, S. (Universitas Indonesia, Depok (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Marlina, L. *Jurnal*

Mikrobiologi Tropika (Indonesia) ISSN 0852-937X (1997) v. 1(2) p. 84-90 4 ill., 5 tables; 25 ref. Summary (En)

COOKING OILS; SALMONELLA TYPHIMURIUM; CHEMICOPHYSICAL PROPERTIES; MUTAGENICITY; OXIDATION; FRACTIONATION; FATTY ACIDS.

0287 JAMALUDDIN. [Predict bone texture of fish with Instron instrument and organoleptic]. Penilaian tekstur tulang bandeng presto dengan instrumen Instron dan secara organoleptik/Jamaluddin; Rahardjo, B.; Hadiwiyoto, S. (Institut Keguruan Ilmu Pendidikan, Ujung Pandang (Indonesia)); Rahardjo, B.; Hadiwiyoto, S. Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1999) v. 19(1) p. 16-20 7 ill., 1 table; 16 ref. Summary (En)

MILKFISH; PROCESSED PRODUCTS; COOKING; TEXTURE METERS; ORGANOLEPTIC ANALYSIS.

0288 RISFAHERI. [Standard of vanilla quality]. Standar mutu panili/Risfaheri; Laksmahardja, M.P.; Hidayat, T. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Monograph of vanilla]. Monograf panili/Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia). Bogor (Indonesia): BALITTRO, 1998 p. 121-129. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) (1998) (no. 4) 2 tables; 6 ref.

VANILLA PLANIFOLIA; QUALITY; STANDARDS; EXPORTS; INDONESIA.

0289 RIYANTO, B. [A study on the stability change of omega-3 fatty acid in mayonnaise]. Mempelajari perubahan kestabilan asam lemak omega-3 dalam mayonnaise sari minyak ikan hasil samping pengalengan lemuru selama penyimpanan/Riyanto, B. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan). Buletin Teknologi Hasil Perikanan (Indonesia) ISSN 0854-9230 (1998) v. 5(1) p. 10-12 3 ref.

SARDINELLA; FISH OILS; SAUCES; FATTY ACIDS; STABILITY; ORGANOLEPTIC ANALYSIS.

0290 SUPARTONO, W. Karl Fischer titration as an alternative method for determining the water content of Indonesian spices/Supartono, W. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian). Agritech (Indonesia): Majalah Ilmu dan Teknologi Pertanian ISSN 0216-0455 (1999) v. 19(1) p. 1-4 2 ill., 5 tables; 6 ref. Summary (En)

SPICES; MOISTURE CONTENT; IDENTIFICATION; DRYING; INDONESIA.

0291 TIRTOSASTRO, S. [Quality of Madura tobacco]. Mutu tembakau Madura/Tirtosastro, S.; Hastono, A.D. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). [Madura tobacco]. Tembakau Madura/Balai Penelitian Tanaman Hias, Jakarta (Indonesia). Malang (Indonesia): BALITTAS, 1999 p. 68-74. Monograf Balittas (Indonesia) ISSN 0853-9308 (1999) (no. 4) 3 tables; 8 ref.

TOBACCO; QUALITY; CHEMICO-PHYSICAL PROPERTIES; STANDARDIZING.

Q54 FEED COMPOSITION / KOMPOSISI PAKAN

0292 MUSOFIE, A. [Sweet sorghum potency to improve land productivity on conservation farming systems]. Potensi sorgum manis untuk meningkatkan produktivitas lahan dalam usaha tani konservasi/Musofie, A.; Wardhani, N.K. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia)). [Proceedings on Seminar Engineering of Technology on Conservation Farming Systems]. Prosiding Seminar Rekayasa Teknologi Sistem Usaha Tani Konservasi/Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8). Yogyakarta (Indonesia): YUADP Komponen 8, 1997 p. 211-220 1 ill., 9 tables; 18 ref.

SORGHUM GRAIN; SUGAR CROPS; FOODS; FEEDS; PROXIMATE COMPOSITION; DIGESTIBILITY; ARID ZONES; LAND PRODUCTIVITY.

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

0293 ANGGRAENI. [The characteristics of Indonesian Patchouli oil]. Karakteristik minyak nilam Indonesia/Anggraeni; Winarti, Ch.; Laksmahardja, M.P. [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 116-121. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 3 tables; 17 ref.

POGOSTEMON CABLIN; ESSENTIAL OILS; QUALITY; MULCHES; FERTILIZERS; DISTILLING; PACKAGING; INDONESIA.

0294 NURDJANAH, N. [Handling of material and distillation of patchouli oil]. Penanganan bahan dan penyulingan minyak nilam/Nurdjanah, N.; Marwati, T [A monograph of Patchouli (*Pogostemon cablin*)]. Monograf nilam/Hasanah, M.; Anggraeni; Emmyzar; Hobir; Kemala, S.; Mustika, I.; Nurdjanah, N.; Rivai, A.M.; Trisawa, I.M. (Eds.). Bogor (Indonesia): BALITTRO, 1998 p. 100-107. Monograf Balai Penelitian Tanaman Rempah dan Obat (Indonesia) no. 5 1 ill., 7 tables; 16 ref.

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INDEKS PENGARANG / AUTHOR INDEX

- A**
- Abdullah, K.
0281
- Abdurachman, A.
0143
- Abubakar
0191
- Abujamin, S. (Ed.)
0021, 0022, 0026, 0028,
0030, 0031, 0036, 0038,
0048, 0073, 0143, 0247,
0248, 0251, 0252, 0257,
0258, 0267
- Adhi, E.M.
0177
- Adi, A. (Ed.)
0021, 0022, 0026, 0028,
0030, 0031, 0036, 0038,
0048, 0073, 0143, 0247,
0248, 0251, 0252, 0257,
0258, 0267
- Adi, B.H.
0176
- Adiati, U.
0200
- Adjid, R.M.A.
0218
- Adnyana, M.O. (Ed.)
0050, 0051, 0052, 0053,
0056, 0057, 0059, 0066,
0068, 0071, 0072, 0074,
0076, 0077, 0079, 0080,
0082, 0144, 0145, 0149
- Ainuri, M.
0085
- Ajjjah, N.
0154
- Al-qodri, A.H.
0193, 0229
- Alam, S.
0066
- Amien, I.
0036
- Amien, L.I.
0015
- Aminah, S.
0196
- Amypalupy, K.
0186
- Ananto, E.E.
0243
- Anggraeni (Ed.)
0042, 0061, 0063, 0078,
0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0293, 0294, 0295
- Anggrahini, S.
0285
- Angkasa, S.
0092, 0126
- Anindiasuti (Ed.)
0034, 0171, 0193, 0226,
0229, 0232, 0235, 0236,
0237, 0239, 0242
- Anon.
0217
- Antariksawan, A.R.
0255
- Antoro, S.
0239
- Anwar, C.
0032, 0055
- Anwar, K.
0048
- Aprillani, S.E. (Ed.)
0021, 0022, 0026, 0028,
0030, 0031, 0036, 0038,
0048, 0073, 0143, 0247,
0248, 0251, 0252, 0257,
0258, 0267
- Ar-Riza, I.
0048
- Arifin, C.
0010
- Arimbi, N.W.
0091
- Arsana, K.D.
0072
- Aryogi
0207
- Ashari
0200
- Aslianti, T.
0238
- Asman, A.
0177, 0185
- Astanto
0243
- Astika, W.
0146
- Astuti, M.
0273
- Azis, M.
0066
- B**
- Badrudin
0225
- Badrudin, U.
0150
- Badrun, M.
0020
- Bahri, S.
0219
- Bamualim, A.
0050
- Basuki, A.
0085
- Basuki, S.
0161
- Basuni, Hw.
0021, 0022, 0026
- Basuno, E.
0202, 0211
- Batubara, L.P.
0202
- Bestari, J.
0211
- Brahmantyo, B.
0261
- Budianto, J.
0002
- Budiono
0259, 0260
- Budisantosa, N.
0067
- C**
- Cakrahadi
0094
- D**
- Dadang W.I.
0086, 0109, 0230
- Dalmadiyo, G.
0176
- Damaijati, E.
0299

- Daniel, M.
0079
- Darham, H.M.S.
0248
- Darmadji, P.
0296
- Darmawati
0079
- Darmawati, E.
0005, 0006, 0007
- Darmawireja, M.R. (Ed.)
0050, 0051, 0052, 0053,
0056, 0057, 0059, 0066,
0068, 0071, 0072, 0074,
0076, 0077, 0079, 0080,
0082, 0144, 0145, 0149
- Darminto
0220
- Darsono
0274
- Daywin, F.J.
0023
- De Wilde, W.J.J.O.
0164
- Deciyanto, S.
0169
- Dhalimi, A.
0095, 0107, 0134, 0153
- Dimyati, A. (Ed.)
0050, 0051, 0052, 0053,
0056, 0057, 0059, 0066,
0068, 0071, 0072, 0074,
0076, 0077, 0079, 0080,
0082, 0144, 0145, 0149
- Diwyanto, K.
0211
- Djaafar, T.F.
0149, 0275
- Djamhari, M.R.
0054
- Djamhuri, M.
0050
- Djazuli, M.
0148
- Djisbar, A.
0152
- Djohar, H.H.
0252
- Djojomartono, M.
0005, 0007, 0243
- Djuanda, D.
0265
- E**
- Effendi, D.S.
- 0101
- Emmyzar (Ed.)
0042, 0061, 0063, 0078,
0095, 0101, 0106, 0135,
0136, 0148, 0152, 0157,
0160, 0169, 0170, 0177,
0179, 0293, 0294, 0295
- Endarwati, L.
0299
- Erwidodo
0076
- F**
- Fagi, A.M.
0013
- Fathony, M.
0271
- Friyatno, S.
0084
- G**
- Gawei, A.
0038
- H**
- Hadi, M.S.
0013, 0020, 0049, 0089
- Hadi, Y.S.
0194
- Hadipoentyanti, E.
0096, 0153, 0154
- Hadiwiyoto, S.
0276, 0287
- Hanafi, H.
0069
- Handiwirawan, E.
0211
- Hanggono, A.
0024
- Hardiningsih, R.
0280
- Harisudin, M.
0297
- Hartono, P.
0034, 0171, 0193, 0226,
0229, 0232, 0235, 0236,
0237, 0239, 0242
- Harwono, R.
0113
- Haryono
0097
- Hasanah, M. (Ed.)
0042, 0061, 0063, 0078,
- 0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0293, 0294, 0295
- Hasnam
0172
- Hastono, A.D.
0291
- Hastuti, P.
0278
- Heij, C.J.
0210
- Hendrarini, H.
0299
- Hendratno, S.
0032, 0055
- Hermanto
0056, 0057, 0174
- Hermawan, A.
0025, 0171, 0236, 0265
- Herwati, A.
0159, 0161
- Hidayat, A.S.
0237
- Hidayat, C.
0296
- Hidayat, T.
0245, 0288
- Hobir (Ed.)
0042, 0061, 0063, 0078,
0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0293, 0294, 0295
- Hudiyono, S.
0286
- Husen, M.
0077
- Hutabarat, T.S.D.N.
0221
- I**
- Idjudin, A.A.
0098, 0256, 0264
- Indrioko, S.
0156
- Irianto, G.
0015
- Isbandi
0004
- Isdijoso, S.H.
0058, 0103
- Ismail, W.
0227

- Ismangun 0026, 0028 0063, 0078, 0095, 0101, 0135, 0136, 0148, 0152,
Ispandi, A. 0249 0157, 0160, 0169, 0170, 0177, 0179, 0293, 0294,
Istiana 0087 0295
Istiana, H. 0058, 0105 Kesa, D.D. 0250
Iswanto, A. 0155 Kitchener, D.J. 0214
Krismono, A.S.N. 0233
Kurniastuty 0171
Kuswanhadi 0186
J
Jamaluddin 0287
Jarmani, S.N. 0196
Jaya, U. 0099, 0140, 0178, 0187
Joko-Hartono 0100
Juarini, E. 0200
Juliaty, E. 0232
Julistiono, H. 0280
Junaedi, U. 0032
Junianto, Y.D. 0183
K
Kalie, M.B. 0127
Kamal, M. 0013, 0020, 0049, 0089
Kanti, A. 0280
Karama, A.S. 0027
Karama, S. 0014
Kariyasa, K. 0075
Kartono, G. 0059
Karyanto, A. 0013, 0020, 0049, 0089
Karyono 0205, 0206, 0208
Kasryno, F. 0068, 0080
Kemala, S. (Ed.) 0042, 0060, 0061, 0062,
Martosupono, M. 0146
Marwati, T. 0070, 0294
Maryanto, I. 0215
Matondang, R.H. 0211
Mauludi, L. 0063, 0064, 0070, 0078, 0088
Mawi, S. 0200
Merta, I.G.S. 0241
Miftahudin 0006
Minjoyo, H. 0171
Moko, H. 0101
Mubarak, H. 0228
Mudjisihono, R. 0102, 0149, 0275
Muhammad, H. 0101
Mukani 0058, 0103
Mulyadi 0216
Mulyani, A. (Ed.) 0021, 0022, 0026, 0028, 0030, 0031, 0036, 0038, 0048, 0073, 0143, 0247, 0248, 0251, 0252, 0257, 0258, 0267
Munarso, S.J. 0016, 0279
Muslim, C. 0084, 0253
Musofie, A. 0254, 0292
Mustamin 0193, 0236
Mustika, I. (Ed.) 0042, 0061, 0063, 0078, 0095, 0101, 0135, 0136, 0148, 0152, 0157, 0160, 0169, 0170, 0177, 0179, 0293, 0294, 0295
L
Laksmanahardja, M.P. 0288, 0293
Laksmanahardja, P. 0277
Las, I. 0015
Lestari, B. 0003
M
Ma'mun 0170, 0277
Maamun, M.Y. 0048, 0073
Machfudz 0105, 0262, 0272
Maharadatunkamsi 0214
Maksum, M. 0085
Manohara, D. 0184
Mansjoer, I. 0215
Mansyur, A. 0234
Marbun, T. 0079
Mardiningsih, T.L. 0170
Marlina, L. 0286
Martati, E. 0278
Martawidjaja, M. 0004
N
Na'iem, M. 0129, 0156

- Najamuddin, A.
0066
- Nancy, C.
0032
- Napitupulu, R.
0280
- Narta
0016
- Naruki, S.
0276
- Natasasmita, S.
0197
- Natasuwarna, H.P.
0251
- Nazarudin, S.B.
0179
- Nelwan, L.O.
0281
- Ngadimin, H.
0259, 0260
- Ngongo, Y.
0050
- NoorGINAYuwati
0073
- Notohadisuwarno, S.
0129, 0156
- Nugraha, S.
0110
- Nugroho, K.
0252
- Nur, A.M.
0128
- Nurdjanah, N.
0042, 0061, 0063, 0078,
0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0282, 0293, 0294, 0295
- Nurhati, I.
0051
- Nuryani, Y.
0104, 0157, 0158, 0160
- O**
- Oloan S.
0269
- P**
- Pamungkas, D.
0207
- Panggabean, T.
0211
- Pasandaran, E.
0082
- Peni, S.P.
0083
- Permana, A.
0005, 0007
- Pertiwi, S.
0008
- Polke, D.S.
0163
- Pramono, E.
0013, 0020, 0049, 0089
- Pramono, J.
0265
- Pranadji, T.
0039
- Prasetyo, B.
0253
- Prasetyo, T.
0069
- Prawiradiputra, B.R.
0266
- Prayitno, D.
0149
- Prayudi, B.
0073
- Pribadi, E.R.
0064
- Priyanti, A.
0040
- Priyanto, D.
0198
- Puja, Y.
0034, 0171, 0193, 0226,
0229, 0232, 0235, 0236,
0237, 0239, 0242
- Purnomo, J.
0031
- Purwadaria, H.K.
0190
- Purwadi, T. (Ed.)
0005, 0006, 0007, 0045,
0097, 0141, 0142, 0243,
0244, 0246
- Purwaningsih, S.
0192, 0298
- Purwanta, C.Y.
0097
- Purwantini, T.B.
0039
- Purwanto, M.Y.J.
0150
- Purwoto, A.
0076
- Putu, I.G.
0191
- R**
- Rachmadi, B.
0089
- Rachman S.K., A.
0159
- Rachman, A.
0105
- Rachman, B.
0039
- Radite, P.A.S.
0044, 0243, 0244
- Rahardjo, B. (Ed.)
0005, 0006, 0007, 0045,
0097, 0141, 0142, 0162,
0188, 0243, 0244, 0246,
0287
- Rahmansyah, M.
0283
- Rahmat, B.
0195
- Rangkuti, M.
0199
- Rangkuti, P.A.
0041
- Rasyid, A.
0207
- Rauf, M.
0066
- Rausin, N.
0034
- Risfaheri
0245, 0288, 0295
- Rivai, A.M. (Ed.)
0042, 0061, 0063, 0078,
0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0293, 0294, 0295
- Riyanto, B.
0289
- Rizal, H.
0172
- Rosman, R.
0042, 0043, 0106, 0151
- Rozaq, A.
0141
- Rugayah
0164
- Ruhnayat, A.
0107, 0134
- Rumiati, S.
0135
- Rusli, S.
0245, 0282

- Rusmin, D. 0013, 0020, 0049, 0089
0135
Rusmono, M. 0190
Rusyani, E. 0235
- S**
- Sadikin, I. 0065
Sajuthi, D. 0215
Samaullah, M.Y. 0270
Santosa, H. 0034, 0171, 0193, 0226, 0229, 0232, 0235, 0236, 0237, 0239, 0242
Sapta, A.I.M. 0232
Saptana 0039
Sarasutha, I P.G. 0066
Sardhi, D. 0173
Sardjono, S. 0122
Sartika, T. 0211
Sarwani, M. 0048
Sarwono, B. 0108, 0109
Sarwono, H.A. 0242
Sastrosoedarjo, S. 0067
Sejati, W.K. 0004, 0040, 0046, 0200
Sembiring, E.N. 0044, 0243
Sembodo, D.R.J. 0013, 0020, 0049, 0089
Sendow, J. 0222
Senoadji, MT. 0045
Senthos S. 0269
Seswita, D. 0152
Setiani, C. 0025
Setiawan, K. 0013, 0020, 0049, 0089
- Setioko, A.R. 0087
Setiyanto, H. 0201
Setyono, A. 0016, 0102, 0110, 0279
Sholeh, M. 0262, 0272
Silalahi, S.B. 0269
Simatupang, P. (Ed.) 0050, 0051, 0052, 0053, 0056, 0057, 0059, 0066, 0068, 0071, 0072, 0074, 0076, 0077, 0079, 0080, 0082, 0084, 0144, 0145, 0149
Sinulingga, S.E. 0202
Sirait, C.H. 0202
Siregar, A.R. 0202, 0211
Siswandono 0129, 0156
Siswanto 0180
Siswoputranto, L.D. 0181
Sitepu, D. 0177
Sitorus, M. 0211
Situmorang, A. 0182
Situmorang, P. 0202
Slamet 0058, 0159
Soejadi 0279
Soekardi, M. 0026, 0257
Soelaeman, Y. 0069
Soelistiyo, T. 0084
Soenaryono, H. 0111, 0112
Soethama, K.W. 0072
Solahudin, S. 0049
Somantri, A.S. 0070
- Sosiawan, H. 0036
Sri-Sukanto 0183
Sriwahyuni 0196, 0203
Sriyani, N. 0013, 0020, 0049, 0089
Suastawa, I.N. 0044, 0244
Subagyono, K. 0267
Subardjo, D. 0258
Subiyakto 0174
Sudana, W. 0084
Sudarmadji, D. 0175
Sudarsono, A. 0229, 0242
Sudaryanto 0226, 0237
Sudaryanto, B. 0198
Sudaryanto, T. 0068, 0080
Sudihardjo, A.M. 0254
Sudjatmo 0268
Sudjiharno 0034, 0229
Sudjiharto 0034, 0171, 0193, 0226, 0229, 0232, 0235, 0236, 0237, 0239, 0242
Sufiani, S. 0136
Sugama, K. 0238
Sugiyanto, A. 0130
Sugiyarto 0118
Suhardjo, H. (Ed.) 0021, 0022, 0026, 0028, 0030, 0031, 0036, 0038, 0048, 0073, 0143, 0247, 0248, 0251, 0252, 0257, 0258, 0267
Suhargo 0188
Suharno 0113

- Suharyanto
0175
- Suhendi, D.
0155
- Sukadi, M.F.
0225
- Sukamto
0131, 0185, 0269
- Sukar
0113
- Sulaiman, F.
0017, 0039
- Sulistyo, J.
0284
- Sumangat, D.
0295
- Sumardi
0189
- Sumarno
0071
- Sumodiningrat, G.
0001
- Sunarko, B.
0283
- Sunarlim, R.
0201
- Sunyoto, Rb.
0257
- Suparto
0026, 0028
- Supartono, W.
0290
- Suprpto
0072, 0228
- Supriatna, J.
0215
- Suprijatna, Y.
0046
- Supriya (Ed.)
0034, 0171, 0193, 0226,
0229, 0232, 0235, 0236,
0237, 0239, 0242
- Supriyadi
0296
- Supriyanto
0118
- Supriyanto, A.
0067, 0114
- Supriyo, A.
0073
- Suradisstra, K.
0046, 0074
- Suratmo, B.
0162
- Suriapermana, S.
0051
- Suryana, A.
0018, 0053
- Suryaningtyas, H.
0186
- Suryati, T.
0204
- Susanti, E.
0036
- Susanto B.
0238
- Susanto, S. (Ed.)
0005, 0006, 0007, 0045,
0097, 0141, 0142, 0243,
0244, 0246
- Susila, W.R.
0090
- Sutardi
0259, 0260
- Sutiyoso, Y.
0115, 0138, 0139
- Sutopo
0116, 0117
- Sutopo, A.
0118
- Sutrisno
0006, 0008, 0016, 0102,
0110, 0270, 0300
- Sutrisno, E.
0239
- Suwardjo, H.
0267
- Suwarso
0159, 0161, 0241
- Sya, A.
0029
- Syam, A.
0065, 0075, 0076
- Syarief, A.M.
0190
- Syarifuddin, D.
0015
- Syukur, C.
0160
- Syukur, M.
0057
- T**
- Taher, A.
0077
- Tambunan, H.
0188
- Taufiq, E.
0184
- Taupik, I.
0223
- Thalib, A.
0211
- Thamrin, M.
0149, 0254, 0275
- Thariq, M.
0193
- Tirtawinata, M.R.
0119, 0120, 0121, 0132,
0133
- Tirtosastro, S.
0291
- Tirtoutomo, S.
0079
- Tjitropranoto, P.
0122
- Tombe, M.
0131, 0185
- Trisawa, I.M. (Ed.)
0042, 0061, 0063, 0078,
0095, 0101, 0135, 0136,
0148, 0152, 0157, 0160,
0169, 0170, 0177, 0179,
0293, 0294, 0295
- Trisnowati, S.
0129
- Triwulaningsih, E.
0212, 0213
- U**
- Udarna, L.
0096
- Untung, O.
0123, 0208
- Usnadi, U.
0040
- Utami, K.P.
0124, 0125, 0263
- Utami, T.
0278
- W**
- Wahid, P.
0042, 0151
- Wahyuadi, K.
0238
- Wahyuni, K.A.
0235
- Wahyuni, S.
0004
- Wahyuning K.S.
0203
- Wardhani, N.K.
0207, 0292

- | | | |
|--|--------------------------|----------------------------------|
| Warjuki
0008 | Widyartini, D.S.
0166 | Y |
| Wasilun
0241 | Wigena, I G.P.
0031 | Yani, A.A.
0035 |
| Watung, R.L.
0075 | Wikardi, E.A.
0170 | Yuda F.R., Y.P.
0300 |
| Wibawa, A.
0128 | Wilson, A.
0202, 0203 | Yudohusodo, S.
0019 |
| Wibawa, G.
0055 | Winarno, D.
0174 | Yuhono, J.T.
0063, 0078, 0088 |
| Wibowo, S.
0240 | Winarno, H.
0155 | Yulaikah, S.
0161 |
| Wibowo, Z.S.
0146 | Winarti, Ch.
0293 | Yunlineri, T.
0280 |
| Widiastuti, E.
0226 | Winarto, H.
0009 | |
| Widjaja, E.A.
0165, 0166 | Winaryo
0128 | Z |
| Widjaja-Adhi, I.P.G.
0030, 0252, 0267 | Wiratno
0169, 0170 | Zaini, Z.
0079 |
| Widodo
0142, 0246 | Witono, H.
0009 | Zaubin, R.
0134, 0153 |
| Widodo, S.E.
0013, 0020, 0049, 0089 | Wuryani, S.
0190 | Zulbardi, M.
0202, 0211 |

INDEKS SUBYEK / SUBJECT INDEX

- A**
- ABANDONED LAND
0108, 0121
- ACETALDEHYDE
0283
- ACETIC ACID
0283
- ACID SULPHATE SOILS
0267
- ACRIDIDAE
0169
- AERATION
0242
- AGE
0197
- AGRICULTURAL
DEVELOPMENT
0001, 0010, 0014, 0018,
0036, 0037, 0038, 0044,
0049, 0053, 0071, 0122,
0143, 0247, 0248, 0251,
0253, 0260, 0264
- AGRICULTURAL
ECONOMICS
0046
- AGRICULTURAL
POLICIES
0001, 0010, 0041
- AGRICULTURAL
PRODUCTS
0113, 0162, 0188, 0234,
0281
- AGRICULTURAL
RESOURCES
0026, 0038
- AGRICULTURAL
SECTOR
0017
- AGRICULTURAL
SITUATION
0025
- AGRICULTURAL
STRUCTURE
0255
- AGRICULTURE
0011, 0012
- AGROCLIMATIC ZONES
0125, 0264
- AGROECOSYSTEMS
0056, 0259, 0260
- AGROFORESTRY
0091, 0259
- AGROINDUSTRIAL
SECTOR
0014, 0016, 0023, 0039,
0041, 0068, 0080, 0082,
0083, 0144, 0274, 0275,
0279
- AGROTIS IPSILON
0174
- ALLEY CROPPING
0143, 0199, 0266
- ALTERNATIVE
AGRICULTURE
0036
- ALYSICARPUS
0163
- AMMONIUM SULPHATE
0284
- ANDHRA PRADESH
0163
- ANIMAL
DEVELOPMENTAL
STAGES
0226
- ANIMAL EMBRYOS
0212
- ANIMAL HOUSING
0004
- ANIMAL HUSBANDRY
0040, 0199
- ANIMAL MORPHOLOGY
0169, 0214, 0215, 0216,
0226, 0232
- ANIMAL NUTRITION
0211
- APHIDIDAE
0169
- APPLES
0187
- APPROPRIATE
TECHNOLOGY
0071, 0079, 0259, 0260
- AQUACULTURE
0227, 0230, 0231
- ARACEAE
0166
- ARACHIS HYPOGAEA
0249
- ARID ZONES
0025, 0067, 0075, 0292
- ARTEMIA
0237, 0238
- ARTIFICIAL
INSEMINATION
0209
- ASPERGILLUS
0284
- B**
- BAKERY PRODUCTS
0279
- BALI
0072, 0184, 0282
- BAMBUSA
0165
- BANANAS
0111, 0112
- BEAUVERIA BASSIANA
0175
- BEEF
0197, 0204, 0217
- BEHAVIOUR
0210
- BEMISIA TABACI
0174
- BIO FERTILIZERS
0137
- BIOASSAYS
0175
- BIOLOGICAL CONTROL
0173, 0183, 0223, 0241
- BIOLOGICAL CONTROL
ORGANISMS
0182
- BIOMASS
0237
- BLOOD PLASMA
0211
- BODY MEASUREMENTS
0202, 0211, 0214, 0215
- BODY WEIGHT
0202
- BORASSUS
FLABELLIFER
0283
- BOTANICAL
INSECTICIDES
0170
- BOTANICAL PESTICIDES
0185
- BOTANY
0096

BREEDING METHODS	0284	0274
0154, 0159	CITRUS	CONSUMERS
BROILER CHICKENS	0127, 0167	0085
0206	CITRUS GRANDIS	CONSUMPTION
BUDDING	0109, 0114, 0116, 0117,	0192
0129	0118	CONTROL METHODS
BUFFALO MEAT	CLIMATE	0177
0197, 0204	0002, 0036, 0042, 0043	CONTROLLED
	CLIMATIC FACTORS	ATMOSPHERE
	0015	STORAGE
C	CLIMATIC ZONES	0300
	0272	COOKING
CAGE CULTURE	CLIMBING HABIT	0276, 0287
0236	0106	COOKING OILS
CALOPOGONIUM	CLUPEOIDEI	0286
MUCUNOIDES	0241	COOPERATIVE
0270	COASTAL SOILS	ACTIVITIES
CAMELLIA SINENSIS	0252	0039, 0041
0146	COASTAL WATERS	COOPERATIVE FARMING
CAPITAL FORMATION	0216	0067
0035	COASTS	COPEPODA
CARBON DIOXIDE	0238	0216
0300	COCONUTS	COPRA
CARCASS COMPOSITION	0047, 0083	0047
0191	COCOS NUCIFERA	CORTICIUM ROLFSSII
CARDIOVASCULAR	0148	0184
DISEASES	COD	COST ANALYSIS
0278	0278	0070, 0090, 0093, 0110,
CARROTS	COFFEA	0118, 0186
0300	0183	COST BENEFIT
CARTOGRAPHY	COFFEA ARABICA	ANALYSIS
0257, 0258, 0260	0128	0034, 0058, 0061, 0063,
CASSAVA	COFFEA CANEPHORA	0109, 0137, 0147
0039	0128	COVER PLANTS
CATCH CROPPING	COFFEE	0270
0146	0090	CREDIT POLICIES
CATTLE	COLEOPTERA	0055
0191, 0208, 0212, 0213	0169	CROP MANAGEMENT
CENTROSEMA PLUMIERI	COLLETOTRICHUM	0066, 0151
0270	0177, 0184	CROP PERFORMANCE
CHALK SOILS	COMMUNICATION	0207
0091, 0249	TECHNOLOGY	CROPPING SYSTEMS
CHEMICAL	0005	0031, 0098, 0148, 0150,
COMPOSITION	COMPUTER SOFTWARE	0254
0138, 0197, 0204, 0294	0189	CROPS
CHEMICALS	CONCENTRATES	0021, 0022
0285	0205	CROSS POLLINATION
CHEMICOPHYSICAL	CONOPOMORPHA	0154
PROPERTIES	CRAMERELLA	CRYOPROTECTANTS
0031, 0104, 0157, 0162,	0181	0212
0286, 0291, 0294	CONSERVATION	CULTIVATION
CHILLIES	TILLAGE	0042, 0095, 0101, 0105,
0300	0016, 0027, 0067, 0098,	0117, 0125, 0136, 0142,
CHIROPTERA	0113, 0254, 0264, 0265,	0160
0214	0266, 0268	CULTURE MEDIA
CHROMATOGRAPHY	CONSTRAINTS	0129

CULTURE TECHNIQUES 0232, 0235, 0237	DIVERSIFICATION 0083, 0098	FACTORS 0171
CUTTING 0100	DNA 0280	ENVIRONMENTAL IMPACT ASSESSMENT 0299
CYSTS 0238	DRAINAGE 0267	ENZYMES 0284
CYTOLOGY 0096	DRY FARMING 0020, 0031, 0065, 0073, 0091, 0143, 0150, 0198, 0249, 0256, 0265, 0266	ENZYMIC ACTIVITY 0284
D	DRYERS 0238, 0245	EPIDEMIOLOGY 0222
DATA PROCESSING 0024	DRYING 0100, 0245, 0282, 0290	EQUIPMENT 0070, 0242, 0274
DATABASES 0009	DUCKS 0087, 0205	EQUIPMENT CHARACTERISTICS 0255, 0271
DEGRADATION 0182	DURIO ZIBETHINUS 0119, 0178, 0189	EROSION 0266, 0268
DEMAND 0123	DYNAMIC MODELS 0045	EROSION CONTROL PLANTS 0265
DEMOGRAPHY 0172	E	ESSENTIAL OIL CROPS 0043, 0101, 0135
DENDROCALAMUS 0165	ECOLOGY 0042	ESSENTIAL OILS 0061, 0063, 0078, 0152, 0157, 0170, 0179, 0293, 0294, 0295
DENSITY 0223	ECONOMIC ANALYSIS 0039, 0059, 0060, 0064, 0065, 0070, 0072, 0198, 0201	ETHANOL 0283
DESIGN 0273	ECONOMIC COMPETITION 0090	EUCHEUMA 0298
DEVELOPMENT AGENCIES 0253	ECONOMIC DEVELOPMENT 0011, 0012, 0019, 0041	EUGENIA AQUEA 0094
DEVELOPMENT AID 0067	ECONOMIC POLICIES 0084	EUPHORIA LONGANA 0129, 0156
DEVELOPMENT POLICIES 0014, 0018, 0043, 0053, 0062, 0068, 0076, 0080, 0082, 0144, 0145, 0248	ECONOMIC VALUE 0122	EVALUATION 0158
DEVELOPMENT PROJECTS 0055	EDIBLE FILMS 0190	EVAPOTRANSPIRATION 0150
DIAGNOSIS 0217	EFFICIENCY 0017, 0076, 0088	EXPERT SYSTEMS 0006, 0007, 0036
DIGESTIBILITY 0292	EGG CHARACTERS 0210	EXPORTS 0047, 0078, 0088, 0090, 0234, 0288, 0295
DIRECT SOWING 0077, 0093, 0102, 0145, 0149	EGGS 0087, 0210	EXTENSIFICATION 0137
DISEASE CONTROL 0107, 0167, 0176, 0177, 0178, 0182, 0218, 0219, 0221, 0278	ELECTROPHORESIS 0175	EXTENSION ACTIVITIES 0003, 0004, 0008, 0020, 0052, 0113
DISEASE RESISTANCE 0138	ENCEPHALITIS 0220	F
DISTILLING 0293, 0294, 0295	ENGINEERING 0044	FARM EQUIPMENT 0044
	ENVIRONMENT 0054, 0299	FARM ESTABLISHMENT 0003
	ENVIRONMENTAL	

- FARM INCOME
0016, 0025, 0034, 0049,
0060, 0064, 0069, 0075,
0076, 0077, 0079, 0084,
0089, 0145, 0146
- FARM INPUTS
0020, 0060
- FARM MANAGEMENT
0060, 0061, 0063, 0064,
0259
- FARMERS
0003
- FARMERS ASSOCIATIONS
0008
- FARMING SYSTEMS
0020, 0046, 0050, 0051,
0052, 0053, 0056, 0057,
0058, 0059, 0065, 0066,
0069, 0071, 0072, 0073,
0074, 0075, 0076, 0077,
0079, 0084, 0143, 0144,
0145, 0149, 0259, 0260,
0265
- FARMLAND
0150
- FATTENING
0208
- FATTY ACIDS
0197, 0204, 0286, 0289
- FEASIBILITY STUDIES
0034
- FEED GRASSES
0199
- FEEDING HABITS
0226, 0241
- FEEDING SYSTEMS
0237
- FEEDS
0087, 0200, 0202, 0205,
0206, 0236, 0237, 0239,
0292
- FERMENTATION
0283
- FERMENTED FOODS
0280
- FERTILIZER APPLICATION
0031, 0107, 0138, 0139,
0143, 0235, 0249
- FERTILIZERS
0002, 0138, 0293
- FINANCIAL SITUATION
0195
- FINANCING
0035
- FISH CAGES
0242
- FISH CULTURE
0233, 0242
- FISH FEEDING
0232, 0235
- FISH LARVAE
0239
- FISH OILS
0278, 0289
- FISH PROCESSING
0276
- FISHERIES
0192, 0298
- FISHERY MANAGEMENT
0233
- FISHERY RESOURCES
0225, 0234
- FISHING GROUNDS
0228
- FISHING METHODS
0228
- FISHING NETS
0228, 0233, 0236
- FLAVOUR
0128
- FLOODED RICE
0079, 0097, 0243
- FLUORIDES
0255
- FOOD CROPS
0020, 0044, 0048, 0065,
0073, 0075, 0279
- FOOD PRODUCTION
0084
- FOOD SAFETY
0285
- FOOD SECURITY
0014, 0015, 0108
- FOOD SUPPLY
0019
- FOOD TECHNOLOGY
0070, 0245, 0274, 0275,
0277, 0279, 0282
- FOODS
0091, 0273, 0285, 0292
- FOOT AND MOUTH DISEASE
0218, 0219, 0221
- FOREST FIRES
0195
- FRACTIONATION
0286
- FREEZING
0212
- FRESHWATER
0242
- FRUIT
0099, 0112, 0115, 0119,
0121, 0139, 0140, 0155
- FRUIT CROPS
0006
- FUNGAL DISEASES
0171
- FUNGI
0182, 0184
- FUNGICIDES
0131, 0167, 0185
- FUSARIUM
0176, 0177
- FUSARIUM OXYSPORUM
0104, 0131, 0185
- G**
- GALLIFORMES
0210
- GARCINIA
0133
- GARCINIA MANGOSTANA
0120, 0132
- GAS PACKAGING
0300
- GELECHIIDAE
0172
- GENERA
0216
- GENETIC DISTANCE
0156
- GENETIC ENGINEERING
0154
- GENETIC VARIATION
0152, 0156, 0175
- GENETIC VECTORS
0280
- GENETICS
0158
- GENOTYPE ENVIRONMENT INTERACTION
0155
- GEOGRAPHICAL DISTRIBUTION
0165
- GEOGRAPHICAL INFORMATION SYSTEMS
0024
- GEOLOGY
0261
- GERMINATION
0243

- GERMPLASM
0158, 0159, 0160, 0165
- GERMPLASM
CONSERVATION
0160
- GIGANTOCHLOA
0165
- GLYCERIDES
0278
- GLYCEROL
0283
- GLYCINE MAX
0123, 0124, 0125, 0137,
0263
- GOAT MILK
0196
- GOATS
0203
- GOSSYPIUM HIRSUTUM
0172
- GOVERNMENT
0209
- GRADING
0239, 0282
- GRAFT UNIONS
0129
- GRAFTING
0127, 0128, 0133
- GRANULOSIS VIRUSES
0173
- GREEN FEED
0207, 0266
- GREEN MANURES
0270
- GREENHOUSE EFFECT
0281
- GROWING MEDIA
0243
- GROWTH
0093, 0106, 0128, 0129,
0137, 0146, 0186, 0243
- GROWTH RATE
0207
- H**
- HABITATS
0165, 0241
- HANDLING
0006, 0294
- HARVESTING
0100, 0102, 0105, 0107,
0110, 0111, 0151, 0193,
0232, 0235, 0282
- HARVESTING DATE
0115, 0189
- HARVESTING
FREQUENCY
0094
- HARVESTING LOSSES
0102, 0110
- HATCHERIES
0193, 0242
- HATCHING
0210, 0237
- HEALTH
0297
- HEAT EXCHANGERS
0281
- HEAT TRANSFER
0188
- HELICOVERPA
0174
- HELOPELTIS ANTONII
0175
- HEVEA BRASILIENSIS
0032, 0055, 0182, 0186
- HIGH YIELDING
VARIETIES
0045, 0089, 0116, 0149
- HIGHLANDS
0016, 0027, 0098, 0199,
0264, 0265, 0268
- HISTORY
0095, 0103
- HORTICULTURE
0021, 0022, 0122
- HUMAN BEHAVIOUR
0297
- HUMAN RESOURCES
0020, 0038, 0040, 0041,
0049
- HYBRIDIZATION
0154
- HYBRIDS
0155
- HYDROLYSIS
0278, 0284
- I**
- IDENTIFICATION
0180, 0290
- IMMUNOLOGY
0218
- IMPERATA CYLINDRICA
0186
- IMPORT CONTROLS
0219
- IMPORTS
0047, 0123, 0217, 0220
- INCOME
0032, 0110
- INDIA
0219
- INDIGENOUS
KNOWLEDGE
0091
- INDONESIA
0001, 0002, 0007, 0009,
0010, 0011, 0012, 0014,
0015, 0018, 0019, 0023,
0024, 0041, 0042, 0047,
0061, 0062, 0078, 0080,
0082, 0083, 0086, 0088,
0095, 0141, 0144, 0153,
0158, 0164, 0165, 0185,
0216, 0217, 0218, 0219,
0220, 0221, 0225, 0227,
0233, 0261, 0285, 0288,
0290, 0293, 0295
- INDUSTRIAL WASTES
0299
- INDUSTRY
0084
- INFORMATION
SERVICES
0008
- INFORMATION SYSTEMS
0005, 0008, 0029
- INFRASTRUCTURE
0044
- INNOVATION ADOPTION
0050, 0057
- INPUT OUTPUT
ANALYSIS
0075
- INSECT DISEASES
0180
- INSECTICIDES
0167
- INSTITUTIONS
0080
- INTEGRATED CONTROL
0181, 0186
- INTEGRATED PEST
MANAGEMENT
0169
- INTEGRATION
0010
- INTENSIFICATION
0049, 0117
- INTENSIVE FARMING
0013
- INTERCROPPING
0147
- INTERFERONS
0213

INTERNATIONAL RELATIONS 0018	LABOUR 0032, 0057, 0068	LIVESTOCK 0209
INVESTMENT 0033, 0035, 0057, 0090	LABOUR REQUIREMENTS 0049	LOLIGO 0228
IRELAND 0217	LACTIC ACID BACTERIA 0280	LOSSES 0195
IRRADIATION 0271	LAND 0029	LOWLAND 0129, 0252
IRRIGATED LAND 0013, 0066	LAND CLASSIFICATION 0252, 0260, 0269	M
IRRIGATED RICE 0023	LAND CLEARING 0007	MACROTERMES 0194
IRRIGATION SYSTEMS 0140	LAND CONSOLIDATION 0023	MADURA 0058, 0103, 0262, 0272
ISOENZYMES 0156	LAND MANAGEMENT 0016, 0031, 0069, 0249, 0253, 0264, 0265, 0268, 0270	MAHARASHTRA 0163
ISOPTERA 0194	LAND OWNERSHIP 0025, 0269	MAIZE 0072
J	LAND PRODUCTIVITY 0013, 0025, 0069, 0254, 0292	MALACOSTRACA 0234
JAPANESE ENCEPHALITIS VIRUS 0222	LAND RESOURCES 0002, 0013, 0024, 0026, 0036, 0038, 0048, 0247, 0248, 0251, 0252	MALAYSIA 0164, 0166, 0215
JAVA 0067, 0085, 0098, 0099, 0102, 0148, 0149, 0157, 0160, 0177, 0179, 0211, 0214, 0215, 0249, 0250, 0254, 0256, 0259, 0260, 0264, 0269, 0282	LAND SUITABILITY 0021, 0022, 0042, 0043, 0098, 0114, 0254, 0257, 0259, 0260, 0262	MALUKU 0210
JUVENILITY OF PLANTS 0186	LAND USE 0108	MALUS 0140
K	LANDSCAPE 0259, 0260	MANGROVES 0250
KAEMPFERIA 0147	LARVAE 0223, 0226, 0242	MANIHOT ESCULENTA 0249
KALIMANTAN 0021, 0022, 0026, 0028, 0030, 0031, 0036, 0038, 0046, 0048, 0054, 0073, 0087, 0143, 0214, 0215, 0247, 0248, 0251, 0252, 0257, 0258, 0267	LASIODERMA SERRICORNE 0174	MANUAL OPERATION 0110
KARST SOILS 0254	LATES CALCARIFER 0034, 0171, 0193, 0226, 0229, 0236, 0239, 0242	MARANTA ARUNDINACEA 0091
KEEPING QUALITY 0190	LEGUMINOSAE 0163	MARGINAL LAND 0027, 0098, 0256, 0264, 0268, 0269
L	LIFE CYCLE 0225, 0226	MARINE FISHERIES 0224
LABORATORY DIAGNOSIS 0194, 0220, 0222	LIFE TABLES 0172	MARINE RESOURCES 0227
	LIQUID WASTES 0296	MARKET INFORMATION 0008
	LITHIUM 0271	MARKETING 0058, 0059, 0074, 0080, 0085, 0087, 0089, 0200, 0240
	LIVER 0278	MARKETING CHANNELS 0088, 0100
		MATHEMATICAL MODELS 0189, 0300
		MATURITY 0189

MEASUREMENT 0162	NEMATODE CONTROL 0179	OXYTOCIN 0213
MEAT 0202, 0219	NEOPLASMS 0278	P
MECHANICAL ENGINEERING 0006, 0007	NESTING 0210	PACKAGING 0153, 0192, 0293
MECHANIZATION 0041, 0044, 0045, 0097	NEW SPECIES 0163, 0164, 0165, 0166, 0214, 0216	PALMAE 0092
MELOIDOGYNE 0179	NICOTIANA TABACUM 0105, 0159, 0161, 0174, 0176, 0272	PARASITIDS 0180
MICROBIOLOGICAL ANALYSIS 0280	NURSERY GROUNDS 0225, 0237	PARASITOSSES 0171
MIGRATION 0225	NUSA TENGGARA 0033, 0037, 0050, 0228	PARTICLE BOARDS 0194
MILK 0202	NUTRIENTS 0196, 0298	PARTNERSHIPS 0056, 0077
MILK PRODUCTION 0201	NUTRITIONAL STATUS 0273	PATHOGENESIS 0185
MILKFISH 0276, 0287		PATHOLOGY 0222
MODELS 0203	O	PECTINOPHORA GOSSYPIELLA 0172
MODERNIZATION 0023	OIL PALMS 0081	PENAEUS MONODON 0223
MOISTURE CONTENT 0290	OILS 0085	PENTATOMIDAE 0169
MONKEYS 0215	OILS INDUSTRY 0081	PERMEABILITY 0300
MOWING 0102, 0110	OLEORESINS 0277	PERSEA AMERICANA 0130
MULCHES 0293	OREOCHROMIS NILOTICUS 0230	PEST CONTROL 0105, 0167, 0174
MULTIPLE CROPPING 0249	ORGANIC MATTER 0185	PEST RESISTANCE 0138
MULTIPLE LAND USE 0265	ORGANOLEPTIC ANALYSIS 0287, 0289	PESTICIDES 0285
MUSCLES 0204	ORYZA SATIVA 0089, 0093, 0149, 0150, 0168, 0246	PESTS OF PLANTS 0169
MUTAGENICITY 0286	OSMOTIC PRESSURE 0212	PETROLEUM 0281
MYZUS PERSICAE 0174	OUT OF SEASON PRODUCTS 0115	PH 0229
N	OVA 0236, 0239	PHILIPPINES 0214
NATURAL DRYING 0281	OVIPOSITION 0210, 0236	PHOSPHORUS 0271
NATURE CONSERVATION 0250	OXIDATION 0286	PTHORIMAEA OPERCULELLA 0173
NELUMBO 0126	OXYA 0174	PHYTOPHTHORA 0184
NEMATODA 0157, 0179		PHYTOPHTHORA NICOTIANAE 0176

- PHYTOPHTHORA
 PALMIVORA
 0178
 PHYTOPLANKTON
 0223, 0235
 PILOT FARMS
 0113
 PLANKTON
 0216, 0241
 PLANT ANATOMY
 0096, 0104, 0157, 0160,
 0161, 0163, 0164, 0165,
 0166, 0180
 PLANT BREEDING
 0095, 0135, 0153, 0159
 PLANT DISEASES
 0176
 PLANT ESTABLISH-
 MENT
 0158
 PLANT INTRODUCTION
 0160
 PLANT PRODUCTION
 0051, 0160, 0254
 PLANT PROPAGATION
 0126, 0153
 PLANT VIRUSES
 0176
 PLANTATIONS
 0067
 PLANTING
 0107, 0134
 PLANTING DATE
 0150, 0272
 PLANTING EQUIPMENT
 0097, 0243
 PLANTING STOCK
 0129, 0131, 0153
 PLASTIC FILM
 0300
 PLOUGHS
 0244
 POGOSTEMON
 0294
 POGOSTEMON CABLIN
 0042, 0061, 0063, 0078,
 0095, 0101, 0135, 0136,
 0148, 0152, 0157, 0160,
 0169, 0170, 0177, 0179,
 0293, 0295
 POLLEN
 0154
 POLLINATION
 0107
 POLLUTION
 0229, 0299
 POPULATION
 DISTRIBUTION
 0163, 0164, 0166, 0214,
 0215, 0216
 POPULATION
 DYNAMICS
 0172, 0211, 0225, 0241
 POPULATION GROWTH
 0209
 POSTHARVEST
 EQUIPMENT
 0238, 0245
 POSTHARVEST
 TECHNOLOGY
 0006, 0008, 0101, 0105,
 0188, 0201
 POVERTY
 0027
 POWDERS
 0154
 PRATYLENCHUS
 0179
 PRATYLENCHUS
 BRACHYURUS
 0157
 PRAWNS AND SHRIMPS
 0231, 0240
 PREGNANCY
 0213
 PRICES
 0058, 0100
 PROCESSED FOODS
 0279
 PROCESSED PLANT
 PRODUCTS
 0277
 PROCESSED PRODUCTS
 0276, 0287
 PROCESSING
 0078, 0190, 0192, 0275,
 0279
 PRODUCTION
 0047, 0058, 0062, 0063,
 0078, 0103, 0118, 0123,
 0124, 0145
 PRODUCTION COSTS
 0206
 PRODUCTION FACTORS
 0064
 PRODUCTION INCREASE
 0020, 0049, 0079, 0089,
 0198, 0202
 PRODUCTION LOCATION
 0099
 PRODUCTION
 POSSIBILITIES
 0015, 0033, 0231
 PRODUCTIVITY
 0059, 0076, 0210
 PROFIT
 0140
 PROFITABILITY
 0065
 PROGESTERONE
 0211
 PROJECT MANAGEMENT
 0258
 PROPAGATION BY
 CUTTINGS
 0134
 PROPAGATION
 MATERIALS
 0132
 PROTOTYPES
 0005, 0246
 PROXIMATE
 COMPOSITION
 0091, 0205, 0292
 PRUNING
 0181
 PSEUDOMONAS
 SOLANACEARUM
 0177
 PURIFICATION
 0284
 PYRALIDAE
 0169
 PYROLYSIS
 0296
 PYTHIUM
 0176
Q
 QUALITY
 0008, 0089, 0102, 0111,
 0112, 0139, 0140, 0181,
 0207, 0277, 0282, 0288,
 0291, 0293, 0295
R
 RADOPHOLUS SIMILIS
 0157, 0179
 RAIN
 0272
 REARING TECHNIQUES
 0193, 0198, 0200, 0236
 RECLAMATION
 0267
 REFORESTATION
 0016

REGIONAL	RUMEN	0298
DEVELOPMENT	0211	SELF POLLINATION
0033	RUMEN	0154
REGULATIONS	MICROORGANISMS	SELF SUFFICIENCY
0001, 0219, 0221, 0273	0208	0013, 0020, 0044, 0045,
REMOTE SENSING	RUMINANTS	0049, 0089
0024	0207	SENSORS
REPRODUCTION	RUNOFF	0024
0202, 0226	0069	SHADE PLANTS
RESEARCH	RURAL COMMUNITIES	0120
0002, 0009, 0047, 0048,	0196	SHADING
0052, 0144		0146
RESEARCH	S	SHEEP
INSTITUTIONS		0004, 0198, 0200, 0201
0074	SALACCA	SHIFTING CULTIVATION
RESEARCH POLICIES	0190	0046
0002, 0122	SALINITY	SITE FACTORS
RESOURCE	0229	0229
ALLOCATION	SALMONELLA	SITE PREPARATION
0084	TYPHIMURIUM	0007
RESOURCE	0286	SMALL ENTERPRISES
MANAGEMENT	SALTMARSHES	0091
0015, 0029, 0224, 0251	0238	SMALL FARMS
RESPIRATION	SAPROPHYTISM	0035, 0055, 0078
0189	0182	SNACK FOODS
RESPIRATION RATE	SARDINELLA	0279
0190	0289	SOCIAL CHANGE
RESTOCKING	SAUCES	0297
0241	0289	SOCIAL CONDITIONS
RHIZOBIUM	SCHIZACHYRIUM	0017, 0299
0263	0165	SOCIAL INSTITUTIONS
RHIZOCTONIA	SCLEROTIUM	0013
0176, 0177	(DEUTEROMYCOTINA)	SOCIAL WELFARE
RHIZOCTONIA SOLANI	0176	0032, 0196
0183	SCROBIPALPA HELIOPA	SOCIOCULTURAL
RHIZOMUCOR MIEHEI	0174	ENVIRONMENT
0278	SEASONAL CROPPING	0050, 0074
RICE	0147	SOCIOECONOMIC
0013, 0045, 0049, 0050,	SEED	DEVELOPMENT
0051, 0052, 0053, 0056,	0072, 0243	0051, 0057
0057, 0059, 0066, 0068,	SEED CERTIFICATION	SOIL
0071, 0072, 0074, 0076,	0135	0002
0077, 0102, 0110, 0145,	SEED INDUSTRY	SOIL ANALYSIS
0149	0089	0249
RIGIDOPORUS	SEED PRODUCTION	SOIL CHEMICO-
0182	0089, 0135, 0136	PHYSICAL PROPER-
RISK	SEED TREATMENT	TIES
0015	0089	0028, 0264
RODENT CONTROL	SEEDLINGS	SOIL CLASSIFICATION
0051, 0168	0107, 0128, 0131, 0134,	0030
ROOT ROTS	0183	SOIL FERTILITY
0184	SEEDS	0151, 0244
ROOTSTOCKS	0105	SOIL MANAGEMENT
0127, 0128	SELECTION	0030, 0267
RUBBER CROPS	0153, 0239	SOIL SUITABILITY
0194	SELENIUM	0257

SOIL SURVEYS	0182	0082, 0137
0026, 0257, 0258	SUBSPECIES	TEMPERATURE
SOIL TYPES	0164, 0215	0229, 0255, 0281
0028, 0262	SUGAR	TERRACE CROPPING
SOIL WATER CONTENT	0084	0265, 0270
0150	SUGAR CROPS	TERRACES
SOILLESS CULTURE	0292	0016
0092	SUGARCANE	TESTING
SOLAR RADIATION	0084, 0086, 0299	0194, 0243
0281	SULAWESI	TEXTURE METERS
SOLENOPSIS GEMINATA	0033, 0039, 0059, 0066,	0287
0174	0214	THAILAND
SOLID WASTES	SUMATRA	0215
0296	0046, 0055, 0079, 0148,	THEOBROMA CACAO
SOLIDS	0157, 0160, 0177, 0179,	0155, 0181
0162	0214, 0215, 0241	THRESHERS
SORGHUM GRAIN	SUPPLY BALANCE	0110
0275, 0292	0087	THRESHING
SORTING EQUIPMENT	SURFACE WATER	102, 0110
0007	0256	TILLAGE
SOWING	SURVIVAL	0030, 0054, 0141, 0142
0097	0172, 0223, 0240	TILLAGE EQUIPMENT
SOYFOODS	SUSTAINABILITY	0244
0274	0023, 0053, 0144	TIME
SPACING	SWAMP SOILS	0276
0120	0030, 0048, 0054, 0252,	TISSUE CULTURE
SPICES	0267	0152
0290, 0296	SYMPTOMS	TOBACCO
SPODOPTERA LITURA	0222	0058, 0100, 0103, 0291
0174	SYSTEMS ANALYSIS	TOMATOES
SPONGIFORM	0244	0300
ENCEPHALOPATHY	SYZYGIUM	TOPWORKING
0217	AROMATICUM	0129, 0130
SPRAYING	0180	TRACE ELEMENTS
0191		0298
SPRINKLER IRRIGATION		TRADE
0140		0047
SQUIDS	T	TRADE POLICIES
0228		0086
STABILITY	TAXA	TRADITIONAL FARMING
0155, 0289	0163, 0164, 0166	0091
STANDARDIZING	TAXONOMY	TRADITIONAL
0291	0161, 0163, 0164, 0166,	TECHNOLOGY
STANDARDS	0216, 0226	0210
0288, 0295	TECHNOLOGICAL	TRANSPORT OF
STOCKING DENSITY	CHANGES	ANIMALS
0239	0068, 0124	0192, 0193, 0240
STORAGE	TECHNOLOGY	TRAP CROPS
0187, 0191, 0282	0030, 0050, 0074, 0077,	0168
STREPSIPTERA	0093, 0145, 0147, 0203	TRAPS
0180	TECHNOLOGY	0168
STRESS	TRANSFER	TRIACYLGLYCEROL
0104	0020, 0040, 0041, 0046,	LIPASE
STRIP CROPPING	0048, 0051, 0054, 0057,	0278
0199, 0270	0059, 0066, 0071, 0073,	TRICHODERMA
STUMPS		0183

TRICHOSANTHES 0164	VETERINARY HYGIENE 0221	WEED CONTROL EQUIPMENT 0246
TROPICAL SOILS 0141	VIBRIO 0223	WEEDING 0107, 0246
U	VIROSES 0171	WEIGHT LOSSES 0191
UPLAND RICE 0142	VITRIFICATION 0212	WETLANDS 0261
USES 0009, 0029, 0165	VOLUME 0162	WILTING 0245, 0282
V	W	WOOD 0194
VACCINES 0218	WATER BUFFALOES 0202, 0211	WORK CAPACITY 0102, 0110
VANILLA PLANIFOLIA 0043, 0060, 0062, 0064, 0070, 0088, 0096, 0104, 0106, 0107, 0131, 0134, 0151, 0153, 0154, 0158, 0184, 0185, 0245, 0277, 0282, 0288	WATER CONSERVATION 0256, 0264	Y
VARIETIES 0051, 0104, 0105, 0114, 0122, 0127, 0135, 0152, 0153, 0163, 0164, 0272	WATER MANAGEMENT 0015, 0030, 0054, 0256, 0267	YEASTS 0283
VECTORS 0220, 0222	WATER QUALITY 0229, 0233	YIELDS 0093, 0128, 0137, 0146, 0147, 0150, 0155, 0207, 0249, 0263, 0266
VEGETABLE CROPS 0005	WATER RESERVOIRS 0256	Z
VEGETABLES 0008	WATER VAPOUR 0255	ZEA MAYS 0249
VEGETATIVE PROPAGATION 0133, 0134, 0135, 0136	WATERSHED MANAGEMENT 0029, 0199, 0268	ZERO TILLAGE 0150
	WATERSHEDS 0069, 0265	ZOONOSES 0220
	WAXING 0187	ZOOPLANKTON 0232
	WEATHER 0119	

INDEKS BADAN KORPORASI / CORPORATE BODY INDEX

B	Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia) 0093, 0147, 0167, 0168	P
Badan Perencanaan Pem- angunan Daerah Tingkat I Kalimantan Timur 0247		Pusat Penelitian dan Pengembangan Peter- nakan, Bogor (Indonesia) 0003, 0004, 0040, 0087, 0191, 0196, 0198, 0200, 0201, 0202, 0203, 0207, 0211, 0212, 0213
Bagian Proyek Penelitian Terapan Sistem DAS Kawasan Perbukitan Kritis Yogyakarta (YUADP Komponen 8) 0016, 0025, 0027, 0065, 0067, 0069, 0075, 0098, 0113, 0122, 0199, 0253, 0254, 0264, 0265, 0266, 0268, 0269, 0270, 0275, 0279, 0292	D	Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia) 0039, 0046, 0047, 0050, 0051, 0052, 0053, 0056, 0057, 0059, 0066, 0068, 0071, 0072, 0074, 0076, 0077, 0079, 0080, 0082, 0084, 0144, 0145, 0149
Balai Penelitian Tanaman Hias, Jakarta (Indonesia) 0058, 0100, 0103, 0105, 0159, 0161, 0174, 0176, 0262, 0272, 0291	Departemen Pertanian, Jakarta (Indonesia) 0011, 0012, 0033, 0037, 0081, 0209, 0224, 0231	Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia) 0002, 0009, 0014, 0015, 0018, 0024
Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia) 0043, 0060, 0062, 0064, 0070, 0088, 0096, 0104, 0106, 0107, 0131, 0134, 0151, 0153, 0154, 0158, 0184, 0185, 0245, 0277, 0282, 0288	H	Pusat Penelitian Teh dan Kina, Gambung (Indonesia) 0146
Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia) 0137	Himpunan Ilmu Gulma Indonesia Komda Lampung; Perhimpunan Agronomi (Indonesia). Komisariat Lampung 0013, 0020, 0049, 0089	U
	I	Universitas Lampung, Bandar Lampung (Indonesia) 0013, 0020, 0049, 0089
	Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia) 0035, 0091, 0102, 0110, 0129, 0156, 0249, 0259, 0260	

INDEKS JURNAL / JOURNAL INDEX

A	Jurnal Penelitian Tanaman Industri 0172, 0180	Pertanian Indonesia: Agribisnis dan Agroindustri 0001, 0010, 0011, 0012, 0017, 0033, 0037, 0081, 0209, 0224, 0231
Agritech: Majalah Ilmu dan Teknologi Pertanian 0085, 0162, 0188, 0273, 0276, 0278, 0285, 0287, 0290, 0296	M	
Atom Indonesia 0255, 0271	Mapeta 0274, 0299	R
B	Media Peternakan 0197, 0204	Reinwardtia: A Journal on Taxonomic Botany, Plant Sociology and Ecology 0163, 0164, 0165, 0166
Balitvet Newsletter 0217, 0218, 0219, 0220, 0221, 0222	Monograf Balai Penelitian Tanaman Rempah dan Obat 0042, 0043, 0060, 0061, 0062, 0063, 0064, 0070, 0078, 0088, 0095, 0096, 0101, 0104, 0106, 0107, 0131, 0134, 0135, 0136, 0148, 0151, 0152, 0153, 0154, 0157, 0158, 0160, 0169, 0170, 0177, 0179, 0184, 0185, 0245, 0277, 0282, 0288, 0293, 0294, 0295	T
Buletin Keteknikan Pertanian 0008, 0023, 0041, 0044, 0150, 0190, 0281, 0300	Monograf Balittas 0058, 0100, 0103, 0105, 0159, 0161, 0174, 0176, 0262, 0272, 0291	Treubia: A Journal on Zoology of the Indo-Australian Archipelago 0210, 0214, 0215, 0216
Buletin Teknologi Hasil Perikanan 0192, 0289, 0298	Monograf Series Pusat Penelitian Sosial Ekonomi Pertanian 0050, 0051, 0052, 0053, 0056, 0057, 0059, 0066, 0068, 0071, 0072, 0074, 0076, 0077, 0079, 0080, 0082, 0144, 0145, 0149	Trubus 0083, 0086, 0092, 0094, 0099, 0108, 0109, 0111, 0112, 0114, 0115, 0116, 0117, 0118, 0119, 0120, 0121, 0123, 0124, 0125, 0126, 0127, 0130, 0132, 0133, 0138, 0139, 0140, 0173, 0178, 0181, 0187, 0205, 0206, 0208, 0230, 0240, 0263
C		W
Caraka Tani 0297		Warta Konservasi Lahan Basah 0054, 0250, 0261
I		Warta Penelitian Perikanan Indonesia 0225, 0227, 0228, 0233, 0234, 0238, 0241
Indonesian Journal of Tropical Agriculture 0194	P	
J	Pelita Perkebunan 0090, 0128, 0155, 0183	
Jurnal Mikrobiologi Tropika 0175, 0182, 0223, 0280, 0283, 0284, 0286	Pertanian 0019	
Jurnal Penelitian: Lembaga Penelitian Universitas Siliwangi 0029, 0195		
Jurnal Penelitian Karet 0032, 0055, 0186		