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**Kata Pengantar**

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Kepala Pusat Perpustakaan dan  
Penyebaran Teknologi Pertanian

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

**Penyusun :**

Hendrawaty  
Sri Susanti  
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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.

**Alamat Redaksi :**

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## DAFTAR ISI

	Halaman
<b>C00 PENDIDIKAN, PENYULUHAN DAN INFORMASI</b>	
C10 PENDIDIKAN .....	1
C20 PENYULUHAN DAN KOMUNIKASI .....	1
C30 DOKUMENTASI DAN INFORMASI .....	1
<b>E00 EKONOMI PERTANIAN, PEMBANGUNAN DAN SOSIOLOGI PEDESAAN</b>	
E10 EKONOMI DAN KEBIJAKAN NASIONAL MENGENAI PERTANIAN.....	2
E11 EKONOMI DAN KEBIJAKAN NASIONAL MENGENAI LAHAN .....	3
E12 TENAGA KERJA DAN KESEMPATAN KERJA .....	5
E14 EKONOMI DAN KEBIJAKAN PEMBANGUNAN.....	5
E16 EKONOMI PRODUKSI.....	7
E20 ORGANISASI, ADMINISTRASI DAN PENGELOLAAN PERUSAHAAN PERTANIAN ATAU USAHA TANI.....	8
E21 AGRO-INDUSTRI.....	12
E50 SOSIOLOGI PEDESAAN DAN KEAMANAN SERTA KESEJAHTERAAN.....	14
E70 PERDAGANGAN, PEMASARAN DAN DISTRIBUSI .....	14
E71 PERDAGANGAN INTERNASIONAL .....	15
E72 PERDAGANGAN DALAM NEGERI.....	15
E73 EKONOMI KONSUMEN.....	15
.....	
<b>F00 ILMU DAN PRODUKSI TANAMAN</b>	
F01 BUDI DAYA TANAMAN.....	15
F02 PERBANYAKAN TANAMAN .....	19
F03 PRODUKSI DAN PERLAKUAN BENIH.....	19
F04 PEMUPUKAN.....	20
F06 IRIGASI.....	21
F07 PENGOLAHAN TANAH .....	21
F08 POLA TANAM DAN SISTEM PERTANAMAN .....	24
F30 GENETIKA DAN PEMULIAAN TANAMAN .....	26
F60 FISILOGI DAN BIOKIMIA TANAMAN .....	29
F61 FISILOGI TANAMAN – HARA .....	29
F70 TAKSONOMI TANAMAN DAN SEBARAN GEOGRAFI .....	29
<b>H00 PERLINDUNGAN TANAMAN</b>	
H10 HAMA TANAMAN .....	29
H20 PENYAKIT TANAMAN.....	31
H50 RAGAM KELAINAN PADA TANAMAN .....	31
H60 GULMA DAN PENGENDALIAN GULMA .....	32
<b>J00 TEKNOLOGI PASCAPANEN</b>	
J10 PENANGANAN, TRANSPOR, PENYIMPANAN DAN PERLINDUNGAN HASIL PERTANIAN .....	33
J11 PENANGANAN, TRANSPOR, PENYIMPANAN DAN PERLINDUNGAN HASIL TANAMAN .....	33
J13 PENANGANAN, TRANSPOR, PENYIMPANAN DAN PERLINDUNGAN HASIL PETERNAKAN .....	33
J14 PENANGANAN, TRANSPOR, PENYIMPANAN DAN PERLINDUNGAN HASIL PERIKANAN DAN AKUAKULTUR.....	33

<b>K00 KEHUTANAN</b>	
K01 KEHUTANAN – ASPEK-ASPEK UMUM.....	33
K10 PRODUKSI HUTAN.....	34
K50 PENGOLAHAN HASIL HUTAN .....	35
<b>L00 ILMU, PRODUKSI DAN PERLINDUNGAN HEWAN</b>	
L01 PETERNAKAN.....	35
L02 PAKAN HEWAN.....	36
L10 GENETIKA DAN PEMULIAAN HEWAN .....	38
L20 EKOLOGI HEWAN.....	38
L60 TAKSONOMI HEWAN DAN SEBARAN GEOGRAFIS .....	38
L73 PENYAKIT HEWAN.....	39
<b>M00 PERIKANAN DAN AKUAKULTUR</b>	
M01 PERIKANAN DAN AKUAKULTUR – ASPEK UMUM .....	39
M11 PRODUKSI PERIKANAN .....	39
M12 PRODUKSI AKUAKULTUR.....	39
M40 EKOLOGI AKUATIK .....	41
<b>N00 MESIN DAN ENJINIRING PERTANIAN</b>	
N20 MESIN DAN PERALATAN PERTANIAN.....	41
<b>P00 SUMBER DAYA ALAM DAN LINGKUNGAN</b>	
P01 KONSERVASI ALAM DAN SUMBER DAYA LAHAN .....	42
P30 ILMU DAN PENGELOLAAN TANAH.....	43
P31 SURVAI DAN PEMETAAN TANAH.....	43
P33 KIMIA DAN FISIKA TANAH .....	43
P35 KESUBURAN TANAH .....	44
P36 EROSI, KONSERVASI DAN REKLAMASI TANAH .....	44
<b>Q00 PENGOLAHAN HASIL PERTANIAN</b>	
Q02 PENGOLAHAN DAN PENGAWETAN PANGAN .....	44
Q03 KONTAMINASI DAN TOKSIKOLOGI PANGAN .....	47
Q04 KOMPOSISI PANGAN .....	47
Q52 PENGOLAHAN DAN PENGAWETAN PAKAN.....	48
Q60 PENGOLAHAN HASIL PERTANIAN NON-PANGAN ATAU NON-PAKAN .....	48
Q70 PENGOLAHAN LIMBAH PERTANIAN.....	48
<b>S00 ILMU GIZI</b>	
S01 ILMU GIZI – ASPEK UMUM.....	48
<b>T00 POLUSI</b>	
T01 POLUSI .....	49
<b>U00 METODOLOGI</b>	
U10 METODA MATEMATIKA DAN STATISTIKA .....	49
U40 METODA SURVAI .....	49
<b>INDEKS PENGARANG .....</b>	51
<b>INDEKS SUBYEK.....</b>	57
<b>INDEKS BADAN KORPORASI .....</b>	69
<b>INDEKS JURNAL .....</b>	71

## TABLE OF CONTENT

	Page
<b>C00 EDUCATION, EXTENSION AND INFORMATION</b>	
C10 EDUCATION .....	1
C20 EXTENSION .....	1
C30 DOCUMENTATION AND INFORMATION .....	1
<b>E00 ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY</b>	
E10 AGRICULTURAL ECONOMICS AND POLICIES .....	2
E11 LAND ECONOMICS AND POLICIES .....	3
E12 LABOUR AND EMPLOYMENT .....	5
E14 DEVELOPMENT ECONOMICS AND POLICIES .....	5
E16 PRODUCTION ECONOMICS .....	7
E20 ORGANIZATION, ADMINISTRATION AND MANAGEMENT OF AGRICULTURAL ENTERPRISES OR FARMS .....	8
E21 AGRO-INDUSTRY .....	12
E50 RURAL SOCIOLOGY AND SOCIAL SECURITY .....	14
E70 TRADE, MARKETING AND DISTRIBUTION .....	14
E71 INTERNATIONAL TRADE .....	15
E72 DOMESTIC TRADE .....	15
E73 CONSUMER ECONOMICS .....	15
<b>F00 PLANT SCIENCE AND PRODUCTION</b>	
F01 CROP HUSBANDRY .....	15
F02 PLANT PROPAGATION .....	19
F03 SEED PRODUCTION AND PROCESSING .....	19
F04 FERTILIZING .....	20
F06 IRRIGATION .....	21
F07 SOIL CULTIVATION .....	21
F08 CROPPING PATTERNS AND SYSTEMS .....	24
F30 PLANT GENETICS AND BREEDING .....	26
F60 PLANT PHYSIOLOGY AND BIOCHEMISTRY .....	29
F61 PLANT PHYSIOLOGY – NUTRITION .....	29
F70 PLANT TAXONOMY AND GEOGRAPHY .....	29
<b>H00 PLANT PROTECTION</b>	
H10 PESTS OF PLANTS .....	29
H20 PLANT DISEASES .....	31
H50 MISCELLANEOUS PLANT DISORDERS .....	31
H60 WEEDS AND WEED CONTROL .....	32
<b>J00 POSTHARVEST TECHNOLOGY</b>	

J10	HANDLING, TRANSPORT, STORAGE AND PROTECTION OF AGRICULTURAL PRODUCTS .....	33
J11	HANDLING, TRANSPORT, STORAGE AND PROTECTION OF PLANT PRODUCTS .....	33
J13	HANDLING, TRANSPORT, STORAGE AND PROTECTION OF ANIMAL PRODUCTS .....	33
J14	HANDLING, TRANSPORT, STORAGE AND PROTECTION OF FISHERIES AND AQUACULTURAL PRODUCTS .....	33
<b>K00</b>	<b>FORESTRY</b>	
K01	FORESTRY - GENERAL ASPECTS .....	33
K10	FORESTRY PRODUCTION .....	34
K50	PROCESSING OF FOREST PRODUCTS .....	35
<b>L00</b>	<b>ANIMAL SCIENCE, PRODUCTION AND PROTECTION</b>	
L01	ANIMAL HUSBANDRY .....	35
L02	ANIMAL FEEDING .....	36
L10	ANIMAL GENETICS AND BREEDING .....	38
L20	ANIMAL ECOLOGY .....	38
L60	ANIMAL TAXONOMY AND GEOGRAPHY .....	38
L73	ANIMAL DISEASES .....	39
<b>M00</b>	<b>FISHERIES AND AQUACULTURE</b>	
M01	FISHERIES AND AQUACULTURE – GENERAL ASPECTS .....	39
M11	FISHERIES PRODUCTION .....	39
M12	AQUACULTURE PRODUCTION .....	39
M40	AQUATIC ECOLOGY .....	41
<b>N00</b>	<b>AGRICULTURAL MACHINERY AND ENGINEERING</b>	
N20	AGRICULTURAL MACHINERY AND EQUIPMENT .....	41
<b>P00</b>	<b>NATURAL RESOURCES AND ENVIRONMENT</b>	
P01	NATURE CONSERVATION AND LAND RESOURCES .....	42
P30	SOIL SCIENCE AND MANAGEMENT .....	43
P31	SOIL SURVEYS AND MAPPING .....	43
P33	SOIL CHEMISTRY AND PHYSICS .....	43
P35	SOIL FERTILITY .....	44
P36	SOIL EROSION, CONSERVATION AND RECLAMATION .....	44
<b>Q00</b>	<b>PROCESSING OF AGRICULTURAL PRODUCTS</b>	
Q02	FOOD PROCESSING AND PRESERVATION .....	44
Q03	FOOD CONTAMINATION AND TOXICOLOGY .....	47
Q04	FOOD COMPOSITION .....	47
Q52	FEED PROCESSING AND PRESERVATION .....	48
Q60	PROCESSING OF NON-FOOD OR NON-FEED AGRICULTURAL PRODUCTS .....	48
Q70	PROCESSING OF AGRICULTURAL WASTES .....	48
<b>S00</b>	<b>HUMAN NUTRITION</b>	
S01	HUMAN NUTRITION – GENERAL ASPECTS .....	48
<b>T00</b>	<b>POLLUTION</b>	
T01	POLLUTION .....	49
<b>U00</b>	<b>METHODOLOGY</b>	
U10	MATHEMATICAL AND STATISTICAL METHODS .....	49
U40	SURVEYING METHODS .....	49

<b>AUTHOR INDEX .....</b>	<b>51</b>
<b>SUBJECT INDEX.....</b>	<b>57</b>
<b>CORPORATE BODY INDEX.....</b>	<b>69</b>
<b>JOURNAL INDEX.....</b>	<b>71</b>

**C10 EDUCATION / PENDIDIKAN**

001 NAKASHIMA, T. How to utilize farmers organization for agricultural technology and training in Japan/Nakashima, T. (Institute for the Development of Agricultural Cooperation in Asia). Second Seminar on Agricultural Technology Transfer and Training: Proceedings/Haryono; Tjitropranoto, P.; Natasukarya, A.; Nurjayanti, S.; Adriani, E.; Syafitrie, C.; Komala, C. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). Jakarta: Badan Litbang Pertanian, 2003: p. 42-74 5 ill., 3 tables: Appendices

FARMERS ASSOCIATIONS; FARMERS; AGRICULTURAL POLICIES; COOPERATIVES; EDUCATION; EXTENSION ACTIVITIES; DIFFUSION OF INFORMATION; ADVISORY OFFICERS; JAPAN.

**C20 EXTENSION / PENYULUHAN DAN KOMUNIKASI**

002 ANAS, P. [Communication effectivity in the economic society: case study in Cilincing and Kepulauan Seribu, Jakarta (Indonesia)]. Efektivitas komunikasi program pemberdayaan ekonomi masyarakat pesisir (kasus Cilincing dan Kepulauan Seribu)/Anas, P.. Institut Pertanian Bogor (Indonesia). Program Pasca Sarjana. Bogor: IPB, 2003: 66 p.

JAVA; ECONOMIC SOCIOLOGY; FISHERMEN; RURAL COMMUNITIES; COASTS; COMMUNICATION TECHNOLOGY.

003 BADAN PENGEMBANGAN SUMBER DAYA MANUSIA PERTANIAN. [Manual for planning of agricultural extension worker needed]. Pedoman perencanaan kebutuhan penyuluh pertanian/ Badan Pengembangan Sumber Daya Manusia Pertanian, Jakarta (Indonesia). Jakarta: Badan Pengembangan Sumber Daya Manusia Pertanian, 2002: 42 p.

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004 DAYAN, A. [Developing professionalism of agricultural extension officer]. Mengembangkan profesionalisme penyuluh pertanian /Dayan, A. (Dinas Pertanian Propinsi Sulawesi Tenggara, Kendari (Indonesia)).

Media Perkebunan (Indonesia) ISSN 0215-1278 (2002) (no. 41) p. 60-61 1 ill.

AGRICULTURE; EXTENSION ACTIVITIES; PROFESSIONAL ASSOCIATIONS.

005 DIREKTORAT PENGEMBANGAN PETERNAKAN. [Guide on the development of agropolitan area based on animal husbandry]. Pedoman umum pengembangan kawasan agropolitan berbasis peternakan/ Direktorat Pengembangan Peternakan, Jakarta (Indonesia). Jakarta: Direktorat Pengembangan Peternakan, 2003: 47 p.

LIVESTOCK; AGRICULTURAL DEVELOPMENT; COMMODITY MARKETS; LIVESTOCK MANAGEMENT; INFORMATION SERVICE; EVALUATION.

006 MAHFUDZ. [Evaluation and stabilization of *Tectona grandis* communication forum]. Evaluasi dan pematapan forum komunikasi jati/Mahfudz; Fauzi, M.A.. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H.. (eds.) Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 35-38

TECTONA GRANDIS; WORK ORGANIZATION; DIFFUSION OF INFORMATION; EVALUATION.

**C30 DOCUMENTATION AND INFORMATION / DOKUMENTASI DAN INFORMASI**

007 SOMANTRI, A.S. [Development of information technology based management system for plantation sector]. Pengembangan sistem manajemen bidang perkebunan berbasis teknologi informasi/Somantri, A.S. (Balai Penelitian Pasca Panen Pertanian, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(2) p. 18-21 1 table

INDUSTRIAL CROPS; PLANTATIONS; INFORMATION TECHNOLOGY; FARM MANAGEMENT.



**E10 AGRICULTURAL ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKAN NASIONAL MENGENAI PERTANIAN**

008 DIREKTORAT BUDIDAYA PETERNAKAN. . [Economic analysis of beef cattle farming]. Analisis ekonomi usaha sapi potong/ Direktorat Budidaya Peternakan, Jakarta (Indonesia). Jakarta: Direktorat Budidaya Peternakan, 2003: 94 p.

BEEF CATTLE; ECONOMIC ANALYSIS; HUMAN RESOURCES; PRODUCTION; CONSUMPTION; EXPORTS.

009 HELMI. [Developing information and technology supporting food security and agribusiness]. Menggalang informasi dan teknologi mendukung ketahanan pangan dan agribisnis: aspek kelembagaan dalam menciptakan sinergi diantara pemerintah, masyarakat, dan pasar/Helmi (Universitas Andalas, Padang (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyardi (eds.). Padang: BPTP Sumatera Barat, 2002: p. 29-36 6 ill.

FOOD SECURITY; AGROINDUSTRIAL SECTOR; AGRICULTURAL ECONOMICS; INFORMATION TECHNOLOGY; SOCIO-ECONOMIC ORGANIZATION; GOVERNMENT; MARKETS; PRIVATE ENTERPRISES.

010 KASRYNO, F. [First response to national rice policies]. Tanggapan I. kebijakan perberasan nasional/Kasryno, F. (Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). [Rice policy and innovation of rice technology]. Kebijakan perberasan dan inovasi teknologi padi/Suprihatno, B.; Soejitno, J.; Syam, M.; Makarim, A.K.; Suwandi; Widiarto, I N.; Hermanto (eds.). Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor: Puslitbang Tanaman Pangan, 2002: p. 47-49

RICE; PRODUCTIVITY; INVESTMENT; RESEARCH; DIVERSIFICATION; PRICE POLICIES.

011 KRISNAMURTI, B. [Second response to national rice policies]. Tanggapan II. Kebijakan perberasan nasional/Krisnamurti, B. (Institut Pertanian Bogor (Indonesia)).

[Rice policy and innovation of rice technology]. Kebijakan perberasan dan inovasi teknologi padi/Suprihatno, B.; Soejitno, J.; Syam, M.; Makarim, A.K.; Suwandi; Widiarto, I N.; Hermanto (eds.). Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor: Puslitbang Tanaman Pangan, 2002: p. 51-53

RICE; PRICE POLICIES; PRODUCTIVITY; SOCIAL WELFARE; INCOME; TRADE POLICIES.

012 PASANDARAN, E. [Corn economy of Indonesia: a study in corn production main center]. Sekilas ekonomi jagung Indonesia: suatu studi di sentra utama produksi jagung/Pasandaran, E.; Kasryno, F.. [Corn economy of Indonesia]. Ekonomi jagung Indonesia/Kasryno, F.; Pasandaran, E.; Fagi, A.M. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). Jakarta: Badan Litbang Pertanian, 2003: p. 1-13 4 ill.

MAIZE; ECONOMIC POLICIES; AGRICULTURAL PRODUCTS; INDUSTRIAL USES; POSTHARVEST TECHNOLOGY; TRADITIONAL TECHNOLOGY; DIVERSIFICATION; PRODUCTION LOCATION; DEVELOPMENT POLICIES; CULTIVATION; INDONESIA.

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RICE; PRODUCTION POLICIES; INCOME; SUBSIDIES; PRICE STABILIZATION; FOOD STOCKS; MARKETING POLICIES.

014 ROEMOKOY, A.F.H. [Financial support for the development of cattle-oil palm integration farming]. Dukungan pembiayaan dalam pengembangan usaha integrasi sapi-kelapa sawit/Roemokoy, A.F.H.. [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa sawit-Sapi, Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.;

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CATTLE; ELAEIS GUINEENSIS; PLANTATIONS; INTEGRATION; FINANCING; ECONOMIC DEVELOPMENT.

015 RUSASTRA, I W. [Policy analysis of national corn economy]. Analisis kebijakan ekonomi jagung nasional/Rusastra, I W.; Kasryno, F. [Corn economy of Indonesia]. Ekonomi jagung Indonesia/Kasryno, F.; Pasandaran, E.; Fagi, A.M. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). Jakarta: Badan Litbang Pertanian, 2003: p. 255-287 8 tables; 10 ref. Appendices

MAIZE; ECONOMIC POLICIES; DEVELOPMENT POLICIES; AGRO-INDUSTRIAL SECTOR; PRODUCTION INCREASE; DECENTRALIZATION; INFRASTRUCTURE; FARM INPUTS.

016 SOEMANGAT [Institutional policy and agricultural organization in the development of prospective rural economy and alleviation of poverty]. Kebijakan kelembagaan dan organisasi pertanian dalam pembangunan ekonomi pedesaan prospektif dan penanggulangan kemiskinan/Soemangat (Institut Pertanian STIPER, Yogyakarta (Indonesia)). [Proceedings of the National Seminar on Appropriate Technology Application Supporting Agribusiness]. Prosiding Seminar Nasional Penerapan Teknologi Tepat Guna dalam Mendukung Agribisnis/Murwati; Harwono, R.; Wahjoeningroem, G.R.D.; Kristantini; Purwaningsih, H.; Krisdiarto, A.W. (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor: PSE, 2003: p 23-31 2 ill., 2 ref.

AGRICULTURAL ECONOMICS; ECONOMIC DEVELOPMENT; RURAL DEVELOPMENT; ORGANIZATION OF RESEARCH; AGRICULTURAL POLICIES; FINANCIAL INSTITUTIONS; INNOVATION; TECHNOLOGY TRANSFER; POVERTY; FARMING SYSTEMS.

**E11 LAND ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKAN NASIONAL MENGENAI LAHAN**

017 ANON. [Wetland and its utilization]. Lahan basah dan manfaatnya/Anon. Warta Konservasi Lahan Basah (Indonesia)ISSN 0854-963X (2002) v. 10(2) p. 6,8

WETLANDS; WATER RESOURCES; LAKES; INLAND WATER ENVIRONMENT.

018 ATEKAN. [Land use guidance and its alternative main commodity development based on Biak Numfor (Irian Jaya, Indonesia) agroecology]. Arahan penggunaan lahan dan alternatif pengembangan komoditas utama berdasarkan agroekologi Kabupaten Biak Numfor/Atekan; Syamsuddin; Tirajoh, S.; Sihombing, S.R.D. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia)). [Proceedings of the Agricultural Technology Recommendation in Papua (Indonesia)]. Prosiding Rekomendasi Paket Teknologi Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah Papua, 2003: p. 12-15 5 ref.

IRIAN JAYA; LAND RESOURCES; LAND USE; AGROECOSYSTEMS; FARMLAND; AGRICULTURAL DEVELOPMENT; LAND PRODUCTIVITY; AGROCLIMATIC ZONES.

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GLYCINE MAX; FARMING SYSTEMS; TECHNOLOGY TRANSFER; PRODUCTIVITY; FARM INCOME; PROFITABILITY; COST BENEFIT ANALYSIS; DRY FARMING.

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

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#### F06 IRRIGATION / IRIGASI

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149 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Intercropping pattern of shallot and chilli in lowland irrigated rice field]. Pola tumpang sari dan tumpang gilir varietas bawang merah dan cabe merah dilahan sawah irigasi dataran rendah/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 98-111. Monograf BPTP Yogyakarta (Indonesia) (no. 1) 4 tables; 14 ref.

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TECTONA GRANDIS; RESEARCH; GENETIC PARAMETER; CLONES; VEGETATIVE PROPAGATION; TECHNOLOGY TRANSFER; JAVA.

163 MAWARDI, S. [Result of adaptability trial of promising clones of robusta coffee]. Hasil pengujian daya adaptasi klon-klon unggul harapan kopi robusta/Mawardi, S.; Hulupi, R. (Pusat Penelitian Kopi dan Kakao Indonesia, Jember (Indonesia)). Warta Pusat Penelitian Kopi dan Kakao Indonesia (Indonesia) ISSN 0215-1308 (2003) v. 19(2) p. 83-90 7 tables; 7 ref.

COFFEA CANEPHORA; CLONES; HIGH YIELDING VARIETIES; ADAPTATION; VARIETY TRIALS; AGRONOMIC CHARACTERS.

164 PRAHARDINI, P.E.R. [Introducing of tuberos varieties (Roro Anteng varieties) from Bangil, East Java (Indonesia)]. Pengenalan varietas sedap malam Bangil (Varietas Roro Anteng)/Prahardini, P.E.R.; Yuniarti (Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia)). [Technical guideline of agricultural appropriate technology]. Petunjuk teknis rakitan teknologi pertanian/Kartono, G.; Suhardjo; Widajati, E.; Ernawanto, Q.D. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia). Malang: BPTP Jawa Timur, 2003: p. 32-46 5 tables; 15 ref.

POLIANTHES; VARIETIES; CULTIVATION; SELECTION; ADAPTATION; JAVA.

165 PURBIATI, T. [Growth condition and varieties of mango]. Syarat tumbuh dan varietas mangga/Purbiati, T. (Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia)). [Monograph of mango]. Monograf mangga/Suhardjo; Sugiarto, M.; Widajati, E. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia). Malang: BPTP Jawa Timur, 2002: p. 1-6 1 ill., 3 tables; 6 ref.

MANGIFERA INDICA; GROWTH; HIGH YIELDING VARIETIES; AGRO-ECOSYSTEMS.

166 PURBIATI, T. [Introducing the candidate of rosa high yielding varieties]. Pengenalan calon varietas unggul bunga mawar potong/Purbiati, T.; Yuniarti; Darliah, N.S.; Samayanti; Sulisyowati, D. [Technical guideline of agricultural appropriate technology]. Petunjuk teknis rakitan teknologi pertanian/Kartono, G.; Suhardjo; Widajati, E.; Ernawanto, Q.D. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia). Malang: BPTP Jawa Timur, 2003: p. 85-94 2 tables; 7 ref. Appendices.

ROSA; CUT FLOWERS; HIGH YIELDING VARIETIES; INTRODUCED VARIETIES; SELECTION; ADAPTATION.

167 RIMBAWANTO, A. [Research and development of biotechnology and its contribution for the development of *Tectona grandis* smallholder forestry]. Penelitian dan

pengembangan bioteknologi di P3BPTH dan kontribusinya bagi pengembangan hutan rakyat jati/Rimbawanto, A. (Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia)). [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 13-18 12 ref.

TECTONA GRANDIS; PLANT BIOTECHNOLOGY; IN VITRO CULTURE; GENETIC ENGINEERING; GENETIC MAPS.

168 ROESMARKAM, S. [Candidate of irrigated rice high yielding varieties]. Calon varietas unggul padi sawah/Roesmarkam, S.; Suyanto. [Technical guideline of agricultural appropriate technology]. Petunjuk teknis rakitan teknologi pertanian/Kartono, G. Suhardjo; Widajati, E.; Ernawanto, Q.D. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia). Malang: BPTP Jawa Timur, 2003: p. 95-100 6 tables.

IRRIGATED RICE; HIGH YIELDING VARIETIES; AGRONOMIC CHARACTERS; ADAPTATION.

169 SADHARDJO, S.M. [Implementation of public function for genetic material and breeding of *Tectona grandis*]. Penyelenggaraan fungsi publik atas materi genetik dan pemuliaan jati/Sadhardjo, S.M. (Pusat Pengembangan Sumber Daya Hutan Perhutani, Cepu (Indonesia)). [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 5-11 1 ill., 9 ref.

TECTONA GRANDIS; PLANT BREEDING; GENETICS; GERMPLASMS; CLONES; FOREST NURSERIES; QUALITY; SEED.

170 SAMAULLAH, M.Y. [Yield performance of aromatic upland rice as intercrops between young teak]. Keragaan daya hasil padi gogo aromatik sebagai tanaman sela di antara jati muda/Samaullah, M.Y. Ismail B.P. Atito (Balai Penelitian Tanaman Padi,

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UPLAND RICE; HIGH YIELDING VARIETIES; MULTIPLE CROPPING; AGRONOMIC CHARACTERS; ORGANOLEPTIC PROPERTIES; CROP PERFORMANCE; YIELDS.

171 SUNARDI. [Adaptive on farm research of kenaf (*Hibiscus cannabinus* L.) on intertidal swamplands]. Uji adaptasi kenaf (*Hibiscus cannabinus* L.) di lahan pasang surut/Sunardi; Krismawati, A.; Subaidi, A. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Proceedings of Socialization of Agricultural Research and Assessment of Agricultural Technology Findings in Central Kalimantan (Indonesia), Palangkaraya, 2-4 November 2001]. Prosiding Sosialisasi Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian Kalimantan Tengah Palangkaraya, 2-4 Nopember 2001/Sudaryanto, T.; Sadra, D.K.; Masganti; Sarwani, M.; Firmansyah, M.A.; Hastuti, A.D.; Yuli (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2001: p. 56-61 1 table; 7 ref.

HIBISCUS CANNABINUS; ADAPTATION; CULTIVATION; SWAMP SOILS; TIDES; INTERTIDAL ENVIRONMENT; AGRONOMIC CHARACTERS; CHEMICAL COMPOSITION.

#### **F60 PLANT PHYSIOLOGY AND BIO-CHEMISTRY / FISILOGI DAN BLOKIMIA TANAMAN**

172 BADAN PENGAWAS OBAT DAN MAKANAN. [Ethnobotany introduction of some aphrodisiacal plants]. Mengenal etnobotani beberapa tanaman yang berkhasiat sebagai aprodisiaka/Badan Pengawas Obat dan Makanan Republik Indonesia, Jakarta (Indonesia). InfoPom (Indonesia) (2003) v. 4(10) p. 1-4 4 ill., 1 table

PIPER RETROFRACTUM; ANACARDIUM OCCIDENTALE; CHEMICAL COMPOSITION; ETHNOBOTANY.

**F61 PLANT PHYSIOLOGY - NUTRITION / FISILOGI TANAMAN - HARA**

173 ANON. [Mengkudu (*Morinda citrifolia*)]. Mengkudu (*Morinda citrifolia*)/Anon. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2002) v. 10(2) p. 20

MORINDA CITRIFOLIA; FRUIT JUICES; TRADITIONAL MEDICINES.

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

174 FITRIAN, V. [*Pandanus odoratissima*]. Pandan laut (*Pandanus odoratissima*)/Fitrian, V. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2002) v. 10(3) p. 21

PANDANUS; GEOGRAPHICAL DISTRIBUTION; USES.

175 NURMAWATI, S. Malesian species of *Dasymaschalon* (Annonaceae)/Nurmawati, S. (Universitas Terbuka Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam. Floribunda (Indonesia) ISSN 0215-4706 (2003) v. 2 (3) p. 67-81 7 ill., 3 tables; 18 ref.

ANNONACEAE; PLANT ANATOMY; GEOGRAPHICAL DISTRIBUTION; MALAYSIA.

**H10 PESTS OF PLANTS / HAMA TANAMAN**

176 AMINATUN, T. [Integrated pest control technique on ecology based agricultural system]. Teknik pengendalian hama terpadu pada sistem pertanian ekologi/Aminatun, T. (Universitas Negeri Yogyakarta (Indonesia) Fakultas Matematika dan Ilmu Pengetahuan Alam). Wuny (Indonesia) ISSN 0126-3854 (2004) (May) p. 22-28 2 ill., 1 table

CROPS; INTEGRATED PEST MANAGEMENT; INTEGRATED CONTROL; ECOLOGY; BOTANICAL PESTICIDES.

177 BEDING, P.A. [Integrated pest control on *Theobroma cacao* in Sorong Regency]. Pengendalian hama terpadu (PHT) pada tanaman kakao di Kabupaten Sorong/Beding, P.A. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia). [Proceedings of the Agricultural Technology Recommendation

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THEOBROMA CACAO; INTEGRATED CONTROL; HARVESTING DATE; PRUNING; PROTECTIVE PLANTS; LAND CLEARING; IRIAN JAYA.

178 LOLONG, A. A. [*Aspidiotus* sp. and *Aleurodicus* sp. control on coconut plantation in East Nusa Tenggara]. Penanggulangan hama kelapa *Aspidiotus* sp. dan *Aleurodicus* sp. di Nusa Tenggara Timur/Lolong, A.A.; Hosang, M.; Mahmud, Z. (Balai Penelitian Kelapa, Manado (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(1) p. 8-9

COCOS NUCIFERA; ASPIDIOTUS; ALEURODICUS; CONTROL METHODS; PEST CONTROL; NUSA TENGGARA.

179 MUSTIKA, I. [Potential of biological control agents and pesticide to control nematoda on pepper]. Potensi agen hayati dan pestisida nabati untuk mengendalikan nematoda pada tanaman lada/Mustika, I. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(1) p. 6-8 1 table

PIPER NIGRUM; RADOPHOLUS SIMILIS; BIOLOGICAL CONTROL AGENTS; BOTANICAL PESTICIDES; PEST CONTROL; PASTEURIA.

180 NINGTIAS N., E.M. [Drought and its relation to seed production]. Kekeringan dan hubungannya dengan produksi benih/Ningtiyas N., E.M. (Universitas Widya Gama, Malang (Indonesia). Fakultas Pertanian). [Support of breeding towards seed industry in competitive agricultural era: Proceedings of the 7th Workshop held by Indonesian Breeder Association]. Dukungan pemuliaan terhadap industri perbenihan pada era pertanian kompetitif: Prosiding Lokakarya Perhimpunan Ilmu Pemuliaan Indonesia ke-7/Kasno, A.; Arsyad, D.M.; Purnomo, J.; Kuswanto; Adie, M.M.; Anwari, M.; Nugrahaeni; Basuki, N.; Rustidja; Rahayuningsih, S.A.; Suwarso (eds.). Malang: PERIPI, 2004: p. 420-422 5 ref.

SORGHUM BICOLOR; HYBRIDS; SEED PRODUCTION; DROUGHT STRESS; DROUGHT RESISTANCE; MOISTURE CONTENT; GERMINATION; SEED.

181 NURINDAH [Change of *Helicoverpa armigera* (Hubner) status on cotton plantations in Indonesia]. Perubahan status *Helicoverpa armigera* (Hubner) pada pertanaman kapas di Indonesia/Nurindah (Balai Penelitian Tanaman Tembakau dan Serat, Malang (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(1) p. 18-19

GOSSYPIMUM; HELICOVERPA ARMIGERA; BIOLOGICAL CONTROL; INDONESIA.

182 NURINDAH. [Cotton pest insect and its control]. Serangga hama kapas dan pengendaliannya/Nurindah; Soebandrijo; Gothama, A.A.A. [Cotton pests and its natural enemies]. Organisme pengganggu tanaman kapas dan musuh alami serangga hama kapas/Subiyakto; Nurindah (eds.). Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia). Malang: BALITTAS, 2000: p. 1-14 12 ill.

GOSSYPIMUM; PEST INSECTS; HELICOVERPA ARMIGERA; ERIAS VITTELLA; PECTINOPHORA GOSSYPIELLA; SPODOPTERA LITURA; ANOMIS; SYLEPTA DEROGATA; APHIS GOSSYPII; PEST CONTROL.

183 NURINDAH. [Pest insect natural enemy of cotton]. Musuh alami serangga hama kapas/Nurindah; Indrayani, I G.A.A. [Cotton pests and its natural enemies]. Organisme pengganggu tanaman kapas dan musuh alami serangga hama kapas/Subiyakto; Nurindah (eds.). Balai Penelitian Tanaman Serat. Malang: BALITTAS, 2000: p. 37-52 14 ill.

GOSSYPIMUM; NATURAL ENEMIES; TRICHOGRAMMA; ANOMIS; PARASITIDS; COCCINELLIDAE; SYRPHIDAE STAPHYLINIDAE; PREDATORS; PATHOGENS.

184 RAHARDJO, B.T. Residues of carbofuran and carbosulfan on lowland rice. Residu karbofuran dan karbosulfan pada tanaman padi sawah/Rahardjo, B.T.; Karindah, S. (Universitas Brawijaya, Malang (Indonesia). Fakultas Pertanian); Zubaidah, E.; Sudarmaji; Kusdianan, D. Jurnal Ilmu-

ilmu Hayati (Indonesia) ISSN 1410-413X (2003) v. 15(1) p. 1-4 2 tables; 5 ref. ORYZA SATIVA; IRRIGATED RICE; CARBOFURAN; CARBOSULFAN; APPLICATION RATES; RESIDUES.

185 ROSMAHANI, L. [Plant and disease control of mango]. Pengendalian organisme pengganggu tanaman mangga/Rosmahani, L. (Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia)). [Monograph of mango]. Monograf mangga/Suhardjo; Sugiyarto, M.; Widajati, E. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang . Malang: BPTP Jawa Timur, 2002: p. 85-92 7 ref.

MANGIFERA INDICA; PEST CONTROL; DISEASE CONTROL; RASTROCOCCUS; INTEGRATED PEST CONTROL; GLOMERELLA CINGULATA; OIDIUM.

186 ROSMAHANI, L. [Review on assessment result of IPM application on vegetables]. Review hasil pengkajian penerapan PHT pada sayuran/Rosmahani, L. [Proceeding of the Seminar and Agricultural Technology Expose of AIAT East Java (Indonesia)]. Prosiding Seminar dan Ekspose Teknologi Pertanian BPTP Jawa Timur (Indonesia)/Yuniarti; Djauhari, A.; Yusran, M.A.; Baswarsiati; Rosmahani, L. (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor: PSE, 2003: p. 80-99 12 tables; 25 ref.

ALLIUM CEPA; CAPSICUM ANNUM; SOLANUM TUBEROSUM; BRASSICA OLERACEA CAPITATA; ALLIUM SATIVUM; INTEGRATED CONTROL; VARIETIES; SPODOPTERA; FUSARIUM; COLLETOTRICHUM; ALTERNARIA PORRI; MYZUS PERSICAE; THRIPS PALMI; BACTROCERA; PSEUDOMONAS SOLANACEARUM.

187 TRIWULAN, I. [Development of pests and diseases and its control in coconut plants]. Perkembangan hama dan penyakit serta sistem pengelolaannya pada tanaman sela kelapa/Triwulan, I. (Loka Tanaman Sela Perkebunan Pakuwon, Sukabumi (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(2) p. 9-11

COCOS NUCIFERA; ORYCTES RHINOCEROS; PHYTOPHTHORA PALMIVORA; PLANT NURSERIES; PLANT PROTECTION.

**H20 PLANT DISEASES / PENYAKIT TANAMAN**

188 HASANUDDIN, A. [Integrated control of tungro disease: Strategy and implementation]. Pengendalian penyakit tungro terpadu: Strategi dan implementasi/Hasanuddin, A. Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor: PUSLIT-BANGTAN, 2002: 51 p.

ORYZA SATIVA; TUNGRO DISEASE; VARIETIES; DISEASE RESISTANCE; VECTORS; ANIMAL MORPHOLOGY; INTEGRATED CONTROL.

189 MANOKARA, D. [Technology support towards controlling stem rot disease of pepper in Lampung (Indonesia)]. Dukungan teknologi terhadap pengendalian penyakit busuk pangkal batang lada di Lampung/Manokara, D. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(2) p. 17-18

PIPER NIGRUM; PHYTOPHTHORA CAPSICI; DISEASE CONTROL; TECHNOLOGY; SUMATRA.

190 YULIANTI, T. [Cotton diseases and its control]. Penyakit tanaman kapas dan pengendaliannya/Yulianti, T.; Ibrahim, N.. [Cotton pests and its natural enemies]. Organisme pengganggu tanaman kapas dan musuh alami serangga hama kapas/Subiyakto; Nurindah (eds.). Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia). Malang: BALITTAS, 2000: p. 15-25 6 ill.

GOSSYPIUM; DISEASE CONTROL; XANTHOMONAS CAMPESTRIS MALVACEARUM; MACROPHOMINA PHASEOLINA; BOTRYODIPLODIA FUSARIUM OXYSPORUM; RAMULARIA; ALTERNARIA.

**H50 MISCELLANEOUS PLANT DISORDERS / RAGAM KELAINAN PADA TANAMAN**

191 DIREKTORAT JENDERAL PERKEBUNAN. [Application of NoBB formula for controlling tapping panel dryness]. Berkas formula penyembuh kulit karet Rp 1,7 trilyun terselamatkan/Direktorat Jenderal Perkebunan, Jakarta (Indonesia). Media Perkebunan (Indonesia) ISSN 0215-1278 (2002) (no. 41) p. 48-51 2 ill., 3 tables

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192 FERRY, Y. [Control of drought effect on estate crops]. Penanggulangan pengaruh kekeringan terhadap tanaman perkebunan /Ferry, Y.; Januwati, M. (Pusat Penelitian dan Pengembangan Perkebunan, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2003) v. 9(1) p. 13-16 1 ill.

INDUSTRIAL CROPS; DROUGHT STRESS; CONTROL; ADAPTATION; MULCHING.

193 JAGAU, Y. [Agronomic characters of upland rice plants tolerant to aluminium toxicity in low nitrogen condition]. Penampilan padi gogo toleran keracunan aluminium pada kondisi nitrogen rendah/Jagau, Y. (Universitas Palangkaraya (Indonesia)). Proceedings of Socialization of Agricultural Research and Assessment of Agricultural Technology Findings in Central Kalimantan (Indonesia), Palangkaraya, 2-4 November 2001]. Prosiding Sosialisasi Hasil Penelitian dan Pengkajian Teknologi Pertanian Kalimantan Tengah Palangkaraya, 2-4 Nopember 2001/Sudaryanto, T.; Sadra, D.K.; Masganti; Sarwani, M.; Firmansyah, M.A.; Hastuti, A.D.; Yuli (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2001: p. 93-101 1 table; 17 ref.

ORYZA SATIVA; UPLAND RICE; RESISTANCE TO CHEMICALS; ALUMINIUM; TOXICITY; NITROGEN FERTILIZERS; CROP PERFORMANCE.

**H60 WEEDS AND WEED CONTROL / GULMA DAN PENGENDALIAN GULMA**

194 CHOLID, M. [Weeds of cotton plant and its control]. Gulma tanaman kapas dan pengendaliannya/Cholid, M.; Mulyaningsih, S.; Endarwati; Darmono; Subandi. [Cotton pests and its natural enemies]. Organisme pengganggu tanaman kapas dan musuh alami serangga hama kapas/Subiyakto; Nurindah (eds.). Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia). Malang: BALITTAS, 2000: p. 26-36 8 ill.

GOSSYPIUM; WEED CONTROL; EUPHORBIA; TRIDAX PROCUMBENS; AMARANTHUS SPINOSUS;

COMMELINA; PORTULACA  
OLERACEAE; CYNODON DACTYLON;  
DIGITARIA CILIARIS; PANICUM  
REPENS; IMPERATA CYLINDRICA;  
ELEUSINE INDICA; ECHINOCHLOA  
CRUSGALLI; CYPERUS ROTUNDUS;  
WEED CONTROL.

195 NAHARIA, O. [Assessment of weed control on zero-tillage irrigated rice cultivation]. Kajian pengendalian gulma pada budidaya padi sawah tanpa olah tanah/Naharia, O. (Universitas Manado (Indonesia). [Proceeding of the National Seminar on Conservation Tillage Yogyakarta (Indonesia), 3 July 2001]. Prosiding Seminar Nasional Olah Tanah Konservasi Yogyakarta, 3 Juli 2001/Hardiastuti E.K., S.; Lagiman; Rizain, A.W.; Mustadjab H.K.; Wuryani, S.; Rizal, A. (eds.). Universitas Pembangunan Negeri, Yogyakarta (Indonesia). Fakultas Pertanian. Yogyakarta: UPN, 2001: p. 204-211 7 tables; 9 ref.

ORYZA SATIVA; IRRIGATED RICE;  
WEED CONTROL; ZERO TILLAGE.

196 SOEJONO, A.T. [Role of herbicides in conservation tillage]. Peran herbisida dalam olah tanah konservasi/Soejono, A.T. (Universitas Gadjah Mada Yogyakarta (Indonesia)). [Proceeding of the National Seminar on Conservation Tillage Yogyakarta (Indonesia), 3 July 2001]. Prosiding Seminar Nasional Olah Tanah Konservasi Yogyakarta, 3 Juli 2001/Hardiastuti E.K., S.; Lagiman; Rizain, A.W.; Mustadjab H.K.; Wuryani, S.; Rizal, A. (eds.). Universitas Pembangunan Negeri, Yogyakarta (Indonesia). Fakultas Pertanian. Yogyakarta: UPN, 2001: p. 184-190 2 tables; 6 ref.

HERBICIDES; CONSERVATION  
TILLAGE.

**J10 HANDLING, TRANSPORT,  
STORAGE AND PROTECTION OF  
AGRICULTURAL PRODUCTS /  
PENANGANAN, TRANSPOR, PE-  
NYIMPANAN DAN PERLINDUNG-  
AN HASIL PERTANIAN**

197 MUNARSO, S.J. [Postharvest technology of corn at farmer level and feasibility of corn starch industry]. Teknologi pasca-panen jagung di tingkat petani dan kelayakan industri pati jagung/Munarsa, S.J.; Thahir, R.. [Corn economy of Indonesia]. Ekonomi jagung Indonesia/Kasryno, F.; Pasandaran, E.; Fagi, A.M. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia).

Jakarta: Badan Litbang Pertanian, 2003: p. 143-164 7 ill., 5 tables; 14 ref.

MAIZE; POSTHARVEST TECHNOLOGY;  
SHELLING; DRYING; SEED STORAGE;  
STOREHOUSES; CORN STARCH;  
GLUCOSE SYRUPS; AGROINDUSTRIAL  
SECTOR; FARMERS; TECHNOLOGY  
TRANSFER.

**J11 HANDLING, TRANSPORT,  
STORAGE AND PROTECTION OF  
PLANT PRODUCTS / PE-  
NANGANAN, TRANSPOR, PE-  
NYIMPANAN DAN PERLINDUNG-  
AN HASIL TANAMAN**

198 NUGRAHA, U.S. [Rice postharvest handling system at tidal swamp areas of South Sumatra]. Sistem penanganan pasca panen padi di lahan pasang surut Sumatera Selatan (Kasus di Desa Srimulyo dan Srikaton-Delta Saleh)/Nugraha, U.S. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). [Paper Compilation of Appreciation and Seminar of Rice Research Results]. Kumpulan Makalah Apresiasi dan Seminar Hasil Penelitian Padi. Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi: BALIT-PA, 2001: (pt. 19) p. 1-9 1 ill., 5 tables; 9 ref.

RICE; POSTHARVEST TECHNOLOGY;  
TIDES; HARVESTING; THRESHING;  
DRYING; MILLING; MARKETING;  
SUMATRA.

**J13 HANDLING, TRANSPORT,  
STORAGE AND PROTECTION OF  
ANIMAL PRODUCTS / PE-  
NANGANAN, TRANSPOR, PE-  
NYIMPANAN DAN PERLIN-  
DUNGAN HASIL PETERNAKAN**

199 HARYANTO, B. [Damaging analysis of native chicken meat]. Analisa kerusakan daging ayam kampung/Haryanto, B.; Royaningsih, S. Need: lingkungan manajemen ilmiah (Indonesia) ISSN 1411-237X (2001) v. 3(1) p. 35-39 1 ill., 2 tables; 14 ref.

CHICKENS; CHICKEN MEAT; MEAT  
HYGIENE; MEAT INSPECTION;  
ABATTOIRS; QUALITY; BACTERIA;  
MICROBIOLOGICAL ANALYSIS;  
ORGANOLEPTIC PROPERTIES.

**J14 HANDLING, TRANSPORT,  
STORAGE AND PROTECTION OF  
FISHERIES AND AQUA-  
CULTURAL PRODUCTS /  
PENANGANAN, TRANSPOR, PE-**

**NYIMPANAN DAN PERLINDUNGAN HASIL PERIKANAN DAN AKUAKULTUR**

200 SAHUBAWA, L. [Handling of fresh fishes]. Penanganan/handling ikan segar/Sahubawa, L. Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian. Yogyakarta: UGM, 2001: 17 p.

FISH; POSTHARVEST TECHNOLOGY; COOLING; REFRIGERATION; FREEZING; BULK STORAGE; CONTAINERS.

**K01 FORESTRY – GENERAL ASPECTS / KEHUTANAN – ASPEK-ASPEK UMUM**

201 SUTARPAN. [Experience on *Tectona grandis* cultivation]. Pengalaman penanaman jati/Sutarpan. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: PUSLITBANG Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 23-28

TECTONA GRANDIS; CULTIVATION; REFORESTATION; JAVA.

202 WAHYUDI, P. [Microorganism diversity in mangrove forest]. Keanekaragaman mikroorganisme di hutan mangrove/Wahyudi, P. Need: lingkungan manajemen ilmiah (Indonesia) ISSN 1411-237X (2001) v. 3(1) p. 16-19 12 ref.

MANGROVES; MICROORGANISMS; BIODIVERSITY; HALOPHYTES; NATURE CONSERVATION; BIOTECHNOLOGY; MICROBIOLOGY; SOCIAL WELFARE; INDUSTRY.

**K10 FORESTRY PRODUCTION / PRODUKSI HUTAN**

203 AWANG, S.A. [Protection of *Tectona grandis* seedlings consumers]. Perlindungan konsumen bibit jati: tanggung jawab siapa/Awang, S.A. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Kehutanan). Proceedings of the National Workshop on *Tectona grandis*. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi

dan Pemuliaan Tanaman Hutan, 2003: p. 27-33 5 ref.

TECTONA GRANDIS; SEEDLINGS; CONSUMER PROTECTION; ENTERPRISES; LEGISLATION; TRADE LIBERALIZATION.

204 BUDININGSIH, K. [*Tectona grandis* cultivation in South Kalimantan]. Melongok budidaya tanaman jati di Kalimantan Selatan/Budiningsih, K. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 85-89 7 ref.

TECTONA GRANDIS; CULTIVATION; LAND SUITABILITY; SILVICULTURE SYSTEMS; SEED CERTIFICATION; KALIMANTAN.

205 HERAWAN, T. [Development of tissue culture research on *Tectona grandis* at Centre for Research and Development of Biotechnology and Breeding of Forest trees]. Perkembangan penelitian kultur jaringan jati (*Tectona grandis* L.) di Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan/Herawan, T. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 81-84 4 ref.

TECTONA GRANDIS; RESEARCH; TISSUE CULTURE; SEEDLINGS.

206 RACHMANADI, D. [Study of *Tectona grandis* growth in Kalimantan]. Kajian pertumbuhan tanaman jati (*Tectona grandis*) di Kalimantan/Rachmanadi, D.; Yuwati, T.W.; (Balai Penelitian dan Pengembangan Hutan Tanaman Indonesia Bagian Timur); Rusmana. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi

dan Pemuliaan Tanaman Hutan, 2003: p. 71-80 3 ill., 6 tables; 9 ref.

TECTONA GRANDIS; CULTIVATION; CROP PERFORMANCE; GROWTH; CLONES; KALIMANTAN.

207 SUHARISNO. [Policies of national forest trees seedlings to support *Tectona grandis* development]. Kebijakan pembenihan tanaman hutan nasional dalam rangka menunjang pengembangan hutan tanaman jati/Suharisno. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 1-3

TECTONA GRANDIS; SEEDLINGS; DEVELOPMENT POLICIES; FOREST NURSERIES; SEED CERTIFICATION.

208 SUPARNO. [Development strategy of *Tectona grandis* cultivation in Southeast Sulawesi]. Strategi pengembangan budidaya tanaman jati di Sulawesi Tenggara/Suparno (Balai Pengelolaan Daerah Aliran Sungai Sampara Sulawesi Tenggara, Kendari (Indonesia)). [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 63-70 1 ill.

TECTONA GRANDIS; CULTIVATION; FOREST REHABILITATION; AGRO-INDUSTRIAL SECTOR; REGULATIONS; FOREST RESOURCES; SULAWESI.

209 SUTARYO, D. [Potential of Diptero-carpaeae on tropical forest]. Diptero-carpaeae primadona hutan tropik yang terancam/Sutaryo, D. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 14

DIPTEROCARPACEAE; SPECIES; TROPICAL FORESTS.

**K50 PROCESSING OF FOREST PRODUCTS / PENGOLAHAN HASIL HUTAN**

210 SUMARDI. [Finishing of retak seribu wood to increase the quality of product] Finishing kayu retak seribu untuk meningkatkan kualitas produk/Sumardi (Sekolah Menengah Kejuruan 2 Pengasih, Yogyakarta (Indonesia)). Wuny (Indonesia) ISSN 0126-3854 2004 (Mar.) p. 34-41

WOOD; QUALITY; WOOD PRESERVATION.

**L01 ANIMAL HUSBANDRY / PETERNAKAN**

211 DIREKTORAT BUDIDAYA PETERNAKAN. [Manual for breeding pattern and system of dairy cattle]. Pedoman pola dan sistem budidaya sapi perah/Direktorat Budidaya Peternakan, Jakarta (Indonesia). Jakarta: Direktorat Budidaya Peternakan, 2003: 34 p.

DAIRY CATTLE; ANIMAL HUSBANDRY METHODS; AGROINDUSTRIAL SECTOR; ANIMAL HOUSING; FEEDS; BREEDING METHODS.

212 DIREKTORAT KESEHATAN MASYARAKAT VETERINER. [Manual for selection and slaughtering of sacrifica animal]. Pedoman seleksi dan penyembelihan hewan qurban/Direktorat Kesehatan Masyarakat Veteriner, Jakarta (Indonesia). Jakarta: Direktorat Kesehatan Masyarakat Veteriner, 2004: 15 p.

ANIMAL; SELECTION CRITERIA; SLAUGHTERING; MEAT HYGIENE.

213 DIREKTORAT PENGEMBANGAN PETERNAKAN. [Development of animal husbandry-based agribusiness area]. Pengembangan kawasan agribisnis berbasis peternakan/Direktorat Pengembangan Peternakan, Jakarta (Indonesia). Jakarta: Direktorat Pengembangan Peternakan, 2003: 102 p.

ANIMAL HUSBANDRY; AGRO-INDUSTRIAL SECTOR; DEVELOPMENT POLICIES; MONITORING; CONTROL METHODS.

214 DIREKTORAT PENGEMBANGAN PETERNAKAN. [Technical criteria for agribusiness area of beef cattle farming]. Kriteria teknis kawasan agribisnis peternakan sapi potong/Direktorat Pengembangan Peternakan,



Jakarta (Indonesia). Jakarta: Direktorat Pengembangan Peternakan, 2003: 60 p.

BEEF CATTLE; AGROINDUSTRIAL SECTOR; STAGES; ANIMAL HUSBANDRY.

215 ELLA, A. [Study on the pattern of goat farming on dryland in Southeast Sulawesi]. Kajian pola usaha pengembangan kambing pada lahan kering di Sulawesi Tenggara/Ella, A.; Sariubang, M.; Pasambe, D. (Balai Pengkajian Teknologi Pertanian Sulawesi Selatan, Makassar (Indonesia)); Yusuf [Proceeding of the National Seminar on Animal Husbandry and Veterinary Technology]. Prosiding Seminar Nasional Teknologi Peternakan dan Veteriner/Mathius, IW.; Setiadi, B.; Sinurat, A.P.; Ashari; Darmono; Wiyono, A.; Tresnawati P., M.B.; Murdiati, T.B. (eds.) Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 245-249 4 tables; 6 ref.

GOATS; ANIMAL HUSBANDRY; FARMING SYSTEMS; FEEDS; DRY FARMING; BODY WEIGHT; SULAWESI.

216 GUNAWAN. Evaluation of the development models for native chicken farms and improvement efforts (a case in Jombang Regency, East Java (Indonesia). Evaluasi model pengembangan usaha ternak ayam buras dan upaya perbaikannya (Kasus di Kabupaten Jombang, Jawa Timur)/Gunawan. Institut Pertanian Bogor (Indonesia). Program Pasca Sarjana. Bogor: IPB, 2002: 179 p

CHICKENS; LIVESTOCK MANAGEMENT; MODELS; FEEDS; EVALUATION; ANIMAL DISEASES; DISEASE CONTROL; INTENSIFICATION; JAVA.

217 GUNTORO, B. [Technology assessment for ruminants in Yogyakarta Province]. Penelitian teknologi untuk ternak ruminansia di Daerah Istimewa Yogyakarta/Guntoro, B.; Nurtini, S.; Musofie, A.; Kusumawardhani, N. Universitas Gadjah Mada, Yogyakarta (Indonesia). Lembaga Penelitian. Yogyakarta: UGM, 2001: 52 p.

RUMINANTS; APPROPRIATE TECHNOLOGY; INNOVATION; SOCIO-ECONOMIC ENVIRONMENT; TRADITIONAL TECHNOLOGY; COSTS; FARM INCOME; FARM INPUTS; TECHNOLOGY TRANSFER; JAVA.

218 ILYAS, A.Z. Characteristical relationship between dairy farmers and their actual attitude and behaviour on farm waste treatment management. Hubungan karakteristik peternak sapi perah dengan sikap dan perilaku aktual dalam pengelolaan limbah peternakan/Ilyas, A.Z.; Sudarnika, E.. Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan. Bogor: IPB, 2002: 56 p.

FARMERS; BEHAVIOUR; DAIRY CATTLE; WASTE MANAGEMENT; AGRICULTURAL WASTES; DAIRY FARMS.

## L02 ANIMAL FEEDING / PAKAN HEWAN

219 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Beef cattle fattening]. Penggemukan sapi potong/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 112-119. Monograf BPTP Yogyakarta (Indonesia) (no. 1) 4 tables; 3 ref.

BEEF CATTLE; FATTENING; FEED CROPS; CONCENTRATES; TECHNOLOGY TRANSFER; WEIGHT GAIN; UNRESTRICTED FEEDING.

220 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Improvement of feed of dairy cow in dry period]. Perbaikan pakan sapi perah periode kering/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 125-134. Monograf BPTP Yogyakarta (Indonesia) (no. 1) 1 ill., 1 table; 6 ref.

DAIRY CATTLE; FEED INTAKE; QUALITY; DRY PERIOD; CONCENTRATES; LACTATION; MILK PRO-

DUCTION; TECHNOLOGY TRANSFER; SUPPLEMENTS.

221 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Improvement of feed to increase production of Ettawa goat milk]. Perbaikan pakan untuk meningkatkan produksi susu kambing peranakan Ettawa/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 120-124. Monograf BPTP Yogyakarta (Indonesia)(no. 1)3 tables; 5 ref.

GOATS; CROSSBREDS; CONCENTRATES; FORAGE; TECHNOLOGY TRANSFER; MILK PRODUCTION; MILK PERFORMANCE; PRODUCTION INCREASE; FARM INCOME.

222 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Utilization of "gangsing' (*Sesarma reticulatum*) as local feed for Turi Bantul duck]. Pemanfaatan gangsing (*Sesarma reticulatum*) sebagai bahan pakan lokal itik Turi Bantul/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 155-161. Monograf BPTP Yogyakarta (Indonesia) (no. 1) 4 tables; 4 ref.

DUCKS; FEEDS; BIOTA; AQUATIC ANIMALS; RATIONS; PROXIMATE COMPOSITION; FEED CONVERSION EFFICIENCY; TECHNOLOGY TRANSFER; EGG PRODUCTION; FARM INCOME.

223 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Utilization of high fibre feedstuff in duck ration of grower period through fermentation process]. Pemanfaatan bahan pakan berserat tinggi dalam ransum itik periode grower melalui proses fermentasi/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recom-

mendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Wardhani, N.K.; Musofie, A.; Sudihardjo, A.M.; Masyhudi, M.F. (eds.). Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: p. 142-154. Monograf BPTP Yogyakarta (Indonesia)(no. 1)4 tables; 9 ref.

DUCKS; RATIONS; FEEDS; FERMENTATION; ASPERGILLUS NIGER; PROXIMATE COMPOSITION; CRUDE FIBRE; GROWTH PERIOD; TECHNOLOGY TRANSFER; WEIGHT GAIN; ECONOMIC ANALYSIS.

224 HARDIANTO, R. [Appropriate technology of complete feed]. Rakitan teknologi pakan lengkap (complete feed)/Hardianto, R.. [Technical guideline of agriculture appropriate technology]. Petunjuk teknis rakitan teknologi pertanian/Kartono, G.; Suhardjo; Widajati, E.; Ernawanto, Q.D. (eds.). Balai Pengkajian Teknologi Pertanian Jawa Timur, Malang (Indonesia). Malang: BPTP Jawa Timur, 2003: p. 109-117 2 tables; 5 ref.

RUMINANTS; FEEDS; APPROPRIATE TECHNOLOGY; AGRICULTURAL WASTES; FEED PROCESSING.

225 TANGENDJAJA, B. [Economic analysis of maize demand for feed]. Analisis ekonomi permintaan jagung untuk pakan/Tangendjaja, B.; Yusdja, Y.; Ilham, N. [Corn economy of Indonesia]. Ekonomi jagung Indonesia/Kasryno, F.; Pasandaran, E.; Fagi, A.M. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). Jakarta: Badan Litbang Pertanian, 2003: p. 229-254 19 tables; 21 ref.

MAIZE; DEMAND; FEED INDUSTRY; NUTRITIVE VALUE; RATIONS; CONCENTRATES; INGREDIENTS; BROILER CHICKENS; LAYER CHICKENS; NUTRITIONAL REQUIREMENTS; SWINE; CATTLE; MARKETING CHANNELS; PRICES.

226 TIRAJOH, S. [Rice straw fermentation as alternative feed for cattle]. Fermentasi jerami padi sebagai pakan alternatif ternak sapi/Tirajoh, S. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia). [Proceedings of the Agricultural Technology Recommendation in Papua (Indonesia)]. Prosiding Rekomendasi Paket Teknologi

Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah Papua, 2003: p. 54-55 3 ref.

CATTLE; FEEDS; RICE STRAW; FERMENTATION; PROBIOTICS; RATIONS.

227 TIRAJOH, S. [Use of potential feeds to increase pig productivity in Nabire Regency (Jayapura)]. Pakan potensial untuk meningkatkan produktivitas ternak babi fase grower di Kab. Nabire/Tirajoh, S. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia). [Proceedings of the Agricultural Technology Recommendation in Papua (Indonesia)]. Prosiding Rekomendasi Paket Teknologi Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah Papua, 2003: p. 51-53 2 tables; 3 ref.

SWINE; COMPOUND FEEDS; PROXIMATE COMPOSITION; INGREDIENTS; UNRESTRICTED FEEDING; PRODUCTIVITY; IRIAN JAYA.

#### L10 ANIMAL GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN HEWAN

228 DIREKTORAT BUDIDAYA PETERNAKAN. [Guidance of livestock swine technique]. Pedoman teknis budidaya ternak babi/Direktorat Budidaya Peternakan, Jakarta (Indonesia). Jakarta: Direktorat Budidaya Peternakan, 2003: 163 p.

LIVESTOCK; SWINE; ANIMAL HOUSING; WASTES; FEEDS; HEALTH; ANIMAL BREEDING; ARTIFICIAL INSEMINATION.

229 NUGROHO, E. [Breeding program for ornamental freshwater fishes production]. Breeding program untuk produksi ikan hias air tawar/Nugroho, E.; Kurniasih, T. (Balai Riset Perikanan Budidaya Air Tawar, Bogor (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2004) v. 10(1) p. 2-5 3 ill., 11 ref.

ORNAMENTAL FISHES; FRESHWATER FISHES; DNA FINGER PRINTING; FISH

CULTURE; BREEDING METHODS; FISHERY PRODUCTION.

230 PUSAT PENGEMBANGAN INSEMINASI BUATAN DAN TRANSFER EMBRIO TERNAK. [Technical guidance for artificial insemination and embryo transfer]. Petunjuk teknis inseminasi buatan dan transfer embrio/Pusat Pengembangan Inseminasi Buatan dan Transfer Embrio Ternak, Jakarta (Indonesia). Jakarta: Pusat Pengembangan Inseminasi Buatan dan Transfer Embrio Ternak, 2000: 72 p.

LIVESTOCK; ARTIFICIAL INSEMINATION; EMBRYO TRANSFER; QUALITY CONTROL; ANIMAL PRODUCTION.

#### L20 ANIMAL ECOLOGY / EKOLOGI HEWAN

231 HASUDUNGAN, F. [Swamp herons: forgotten endangered heron]. Bangau rawa: bangau langka yang terlupakan/Hasudungan, F. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2002) v. 10(3) p. 14

HERONS; POPULATION DYNAMICS.

#### L60 ANIMAL TAXONOMY AND GEOGRAPHY / TAKSONOMI HEWAN DAN SEBARAN GEOGRAFIS

232 HADIATY, R.K. A new record of *Puntius gemellus* Kottelat from Muara Kendawangan nature reserve, West Kalimantan (Indonesia)/Hadiaty, R.K. (Pusat Penelitian Biologi-LIPI, Cibinong, Bogor (Indonesia)). Zoo Indonesia (Indonesia) ISSN 0215-191X (2001) (no. 28) p. 36-37

PUNTIUS; ORNAMENTAL FISHES; ANIMAL MORPHOLOGY; GEOGRAPHICAL DISTRIBUTION; NATURE RESERVES; KALIMANTAN.

233 MUMPUNI. A new record of the Malayan mountain keelback *Amphiesma inas* Laidlaw, 1901 (Ophidia: Colubridae: Natricinae) from Sumatra [Indonesia]/Mumpuni (Pusat Penelitian Biologi-LIPI Cibinong, Bogor (Indonesia)). Zoo Indonesia (Indonesia) ISSN 0215-191X (2001) (no. 28) p. 38-39 2 ill.

SNAKES; ANIMAL MORPHOLOGY; GEOGRAPHICAL DISTRIBUTION; SUMATRA.

234 SUTEJA, T. [Longtail monkey (*Macaca fascicularis*)]. Monyet ekor panjang (*Macaca fascicularis*)/Suteja, T. Media Informasi Hutan dan Kehutanan (Indonesia) ISSN 0215-2908 (2001) v. 17(5) p. 1-5 3 tables; 21 ref.

MONKEYS; SPECIES; BIODIVERSITY; ANIMAL ECOLOGY; EXPORTS; NATURE CONSERVATION.

**L73 ANIMAL DISEASES / PENYAKIT HEWAN**

235 HERDIANA, U.R. [Foot and mouth disease threat caused by free trade for Indonesia]. Ancaman penyakit mulut dan kuku akibat perdagangan bebas bagi Indonesia/ Herdiana, U.R. (Badan Karantina Pertanian, Jakarta (Indonesia)). Buletin Media Quaranta (Indonesia) ISSN 0215-1499 (2003) (no. 5-6) p. 5-7

FOOT AND MOUTH DISEASE; DISEASE TRANSMISSION; QUARANTINE; IMPORTS; LEGISLATION.

**M01 FISHERIES AND AQUACULTURE – GENERAL ASPECTS / PERIKANAN DAN AKUAKULTUR – ASPEK UMUM**

236 MUCHSIN, I. [Anguilla larvae distribution in Poso river estuary, Poso Regency, Central Sulawesi]. Penyebaran larva ikan sidat (*Anguilla* spp.) di Muara Sungai Poso, Kabupaten Poso, Sulawesi Tengah/Muchsin, I. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 29

ANGUILLA; FISH LARVAE; POPULATION DISTRIBUTION; RIVERS; SULAWESI.

**M11 FISHERIES PRODUCTION / PRODUKSI PERIKANAN**

237 PUTRO, S. [Strategies in the marketing of fish culture production]. Strategi pemasaran produksi perikanan budidaya/Putro, S. (Direktorat Jenderal Peningkatan Kapasitas Kelembagaan dan Pemasaran, Jakarta (Indonesia)). [Proceedings of Semi Workshop on the Application of Feed Technology and its Roles in the Development of Fish Culture]. Prosiding Semi-loka Aplikasi Teknologi Pakan dan Peranannya Bagi Perkembangan Usaha Perikanan Budidaya/Sudradjat, A.; Azwar, Z.I.; Suhenda, N.; Djajasewaka, H.; Hadie, L.E. (eds.). Pusat Riset Perikanan Budidaya, Jakarta (Indonesia). Jakarta: Pusat

Riset Perikanan Budidaya, 2003: p. 23-29 5 tables

FISHERIES; FISH CULTURE; FISHERY PRODUCTION; MARKETING TECHNIQUES; EXPORTS; MARKET SEGMENTATION; MARKET INTELLIGENCE; DEMAND.

**M12 AQUACULTURE PRODUCTION / PRODUKSI AKUAKULTUR**

238 FAHRI, S. [Effect of density and shelter at the water area of intertidal rice field on the growth of *Anabas testudineus* Block in Handil Gabin village, Kecamatan Pulau Petak, Kabupaten Kapuas, Central Kalimantan (Indonesia)]. Pengaruh kecepatan dan shelter pada beje sawah terhadap pertumbuhan ikan papuyu (*Anabas testudineus* Block)/Fahri, S.; Jaya, R.; Yuli; Firdaus, M.S. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Proceedings of Socialization of Agricultural Research and Assessment of Agricultural Technology Findings in Central Kalimantan (Indonesia), Palangkaraya, 2-4 November 2001]. Prosiding Sosialisasi Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian Kalimantan Tengah Palangkaraya, 2-4 Nopember 2001/Sudaryanto, T.; Sadra, D.K.; Masganti; Sarwani, M.; Firmansyah, M.A.; Hastuti, A.D.; Yuli (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2001: p. 64-69 1 table; 29 ref.

FRESHWATER FISHES; GROWTH; STOCKING DENSITY; FISH CULTURE; RICE FIELDS; ORYZA SATIVA; FARM INCOME; KALIMANTAN.

239 LAINING, A. [Artificial fish feeding performance in grouper (*Cromileptes altivelis*) hatchery. Penampilan pemberian pakan buatan dalam penggelondongan kerapu bebek/Laining, A. (Balai Riset Perikanan Budidaya Air Payau, Maros (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2004) v. 10(1) p. 19-21 2 ill., 2 tables. 4 ref.

EPINEPHELUS; GROUPERS; FEEDS; GROWTH; PELLETS.

240 PRATIWI, E. [Sea bass (*Lates calcarifer*) farming at Bengkalis]. Budi daya ikan kakap putih di Bengkalis/Pratiwi, E.; Ismail, W. (Pusat Riset Perikanan Budidaya, Jakarta (Indonesia)). Warta Penelitian

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LATES CALCARIFER; SEA BASS; CAGE CULTURE; ANIMAL MORPHOLOGY; TECHNOLOGY; FISH LARVAE; FEEDS; HARVESTING; MARKETING; SUMATRA.

241 SIDDIK, I.B. [Culture of carp (*Carpinus carpio*) in ponds in Cibeling-Cinagara, Bogor]. Budidaya ikan mas di kolam air deras Cibeling-Cinagara, Bogor/Siddik, I.B. [Proceedings of Semi Workshop on the Application of Feed Technology and its Roles in the Development of Fish Culture]. Prosiding Semi-loka Aplikasi Teknologi Pakan dan Peranannya Bagi Perkembangan Usaha Perikanan Budidaya/Sudradjat, A.; Azwar, Z.I.; Suhenda, N.; Djajasewaka, H.; Hadie, L.E. (eds.). Pusat Riset Perikanan Budidaya, Jakarta (Indonesia). Jakarta: Pusat Riset Perikanan Budidaya, 2003: p. 47-51 2 tables

CYPRINUS CARPIO; FISH CULTURE; FISH FARMS; REARING TECHNIQUES; FISH PONDS; WATER CIRCULATION; WATER QUALITY; ECONOMIC ANALYSIS; FISH DISEASES; DISEASE CONTROL.

242 SOPLANIT, A. [Semi intensive fish culture on sweet potato plantations]. Budidaya ikan pada parit pertanaman ubi jalar (mina wen hipere) secara semi intensif/Soplanit, A.; Masbaitubun, H. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia)). [Proceedings of the Agricultural Technology Recommendation in Papua (Indonesia)]. Prosiding Rekomendasi Paket Teknologi Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah Papua, 2003: p. 58-61 3 tables; 5 ref.

OREOCHROMIS NILOTICUS; IPOMOEA BATATAS; AGROPISCICULTURE; FURROW IRRIGATION; DRAINAGE SYSTEMS; WATER QUALITY; FISH FEEDING; SUPPLEMENTS; STOCKING DENSITY; INTENSIVE FARMING.

243 SUHENDA, N. [Contribution of nutritional research and feed technology in supporting fish culture industry]. Kontribusi penelitian nutrisi dan teknologi pakan untuk mendukung usaha perikanan budidaya/Suhenda, N.; Azwar, Z.I.; Djajasewaka, H.

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FISHERIES; FISH CULTURE; FISH LARVAE; FISH FEEDING; FEEDING PREFERENCES; QUALITY; FEEDING LEVEL; NUTRITIONAL REQUIREMENTS; STOCKING DENSITY; SURVIVAL.

244 SUKADI, M.F. [Strategy and policies in the development of feed for fish culture]. Strategi dan kebijakan pengembangan pakan dalam budi daya perikanan/Sukadi, M.F. (Direktorat Jenderal Perikanan Budidaya, Jakarta (Indonesia)). [Proceedings of Semi Workshop on the Application of Feed Technology and its Roles in the Development of Fish Culture]. Prosiding Semi-loka Aplikasi Teknologi Pakan dan Peranannya Bagi Perkembangan Usaha Perikanan Budidaya/Sudradjat, A.; Azwar, Z.I.; Suhenda, N.; Djajasewaka, H.; Hadie, L.E. (eds.). Pusat Riset Perikanan Budidaya, Jakarta (Indonesia). Jakarta: Pusat Riset Perikanan Budidaya, 2003: p. 11-21 1 ill., 6 tables; 3 ref.

FISH CULTURE; FISHERIES POLICIES; DEVELOPMENT POLICIES; FISH FEEDING; FEED RESOURCES; FEED PRODUCTION; QUALITY; SAFETY; NUTRITIONAL REQUIREMENTS.

245 SUSANTO, B. [Biological aspects observation on small crab (*Portunus pelagicus*) to support the seedling technique]. Pengamatan aspek biologi rajungan (*Portunus pelagicus*) dalam menunjang teknik perbenihannya/Susanto, B.; Marzuqi, M.; Setyadi, I.; Syahidah, D.; Permana, G.N.; Haryanti (Balai Besar Riset Perikanan Budidaya Laut, Gondol (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2004) v. 10(1) p. 6-11 2 ill., 4 tables. 22 ref.

PORTUNUS; CRABS; SPECIES; ANIMAL MORPHOLOGY; HABITATS; FISH CULTURE; FISH LARVAE; FEEDS; HATCHERIES.

**M40 AQUATIC ECOLOGY / EKOLOGI AKUATIK**

246 SUDARTO. [Catfishes (*Clariidae*) genetics characterizing from South-East Asian Region]. Karakterisasi genetik ikan lele (*Clariidae*) dari wilayah Asia Tenggara/Sudarto (Balai Riset Perikanan Budidaya Air Tawar, Bogor (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2004) v. 10(1) p. 15-19 3 ill.

SILUROIDEI; FRESHWATER CATFISH; SPECIES; FISH PRODUCTION; POPULATION GENETICS; ASIA.

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

247 BALAI BESAR PENGEMBANGAN MEKANISASI PERTANIAN. [Various findings in research and engineering of agricultural equipments and machines]. Hasil unggulan penelitian/perekayasaan alat dan mesin pertanian. Balai Besar Pengembangan Mekanisasi Pertanian, Serpong, Tangerang (Indonesia). Serpong: Balai Besar Pengembangan Mekanisasi Pertanian, 2002: 18 p.

FARM EQUIPMENT; RESEARCH; DESIGN; EQUIPMENT CHARACTERISTICS; WORK CAPACITY.

248 DUNG, P.C. Sowing equipment for Mekong river delta (Vietnam)/Dung, P.C. (Ministry of Agriculture and Rural Development, (Vietnam)). Second Seminar on Agricultural Technology Transfer and Training: Proceedings/Haryono; Tjitropranoto, P.; Nata-sukarya, A.; Nurjayanti, S.; Adriani, E.; Syafitrie, C.; Komala, C. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia). Jakarta: Badan Litbang Pertanian, 2003: p. 38-41 1 table

RICE; PLANTING EQUIPMENT; ECONOMIC ANALYSIS; COST BENEFIT ANALYSIS.

249 HARTONO, A. [Planting and fertilizing tools on dryland cultivation in Central Kalimantan]. Alat tanam dan pemupuk pada lahan kering di Kalimantan Tengah/Hartono, A.; Massinai, R.; Rukayah (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Proceedings of Socialization of Agricultural Research and Assessment of Agricultural Technology

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FOOD CROPS; PLANTING EQUIPMENT; FERTILIZER EQUIPMENT; DRY FARMING; SOCIOCULTURAL ENVIRONMENT; SOCIOECONOMIC DEVELOPMENT; KALIMANTAN.

250 LUBIS, S. [Addition of water fogging component on rice polishers at small milling to increase milled rice quality]. Penambahan komponen pengkabut air pada alat penyosoh di penggilingan kecil untuk meningkatkan kualitas beras giling/Lubis, S.; Sudaryono; Rachmat, R.; Nugraha, U.S. (Instalasi Penelitian Tanaman Padi, Karawang (Indonesia)). [Paper Compilation of Appreciation and Seminar of Rice Research Results]. Kumpulan Makalah Apresiasi dan Seminar Hasil Penelitian Padi. Balai Penelitian Tanaman Padi, Sukamandi (Indonesia). Sukamandi: BALITPA, 2001: (pt. 21) p. 1-4 tables; 6 ref.

RICE; MILLING; QUALITY; GRINDERS; RICE POLISHING.

251 UNADI, A. [Technology and machines for livestock agribusiness at oil palm plantation]. Teknologi alat dan mesin untuk agribisnis peternakan di kawasan perkebunan sawit/Unadi, A. (Balai Besar Pengembangan Mekanisasi Pertanian, Tangerang (Indonesia)). [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa sawit-Sapi, Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 211-219 6 ill., 3 ref.

LIVESTOCK; FARM EQUIPMENT; TECHNOLOGY; FEED PROCESSING; OIL PALMS; PLANTATIONS; AGRO-INDUSTRIAL SECTOR.

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

252 BURHAN, H. [Contribution of herbicide technology in tidal land toward sustainable food availability]. Kontribusi teknologi herbisida di lahan pasang surut menuju ketersediaan pangan berkelanjutan/Burhan, H.; Irianto, M.Y.; Widodo, B.. [Proceeding of the National Seminar on Conservation Tillage, Yogyakarta 3 July 2001]. Prosiding Seminar Nasional Olah Tanah Konservasi, Yogyakarta 3 Juli 2001/Hardiastuti E.K., S.; Lagiman; Rizain, A.W.; Mustadjab H.K.; Wuryani, S.; Rizal, A. (eds.). Universitas Pembangunan Negeri, Yogyakarta (Indonesia). Fakultas Pertanian. Yogyakarta: UPN, 2001: p. 48-56 6 tables; 9 ref.

HERBICIDES; TECHNOLOGY; FOOD SECURITY; SUSTAINABILITY; TIDES.

253 GOENNER, C. [*Trinil nordmann*, a scarce species at Berbak-Sembilang, Sumatra]. *Trinil nordmann*, species langka di Berbak-Sembilang/Goenner, C. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2002) v. 10(2) p. 14

BIRDS; SPECIES; SUMATRA.

254 IQBAL, M. [Sea Kaspia pigeon (*Hydropogone caspia*) at Sembilang National Park (Indonesia)]. Dara laut Kaspia teramati kembali di Taman Nasional Sembilang/Iqbal, M.. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 15

PIGEONS; NATIONAL PARKS; SUMATRA.

255 LUBIS, I.R. [Berang-berang (*Lutra sumatrana*) at Way Kambas (Sumatra)]. Berang-berang langka kemungkinan besar terdapat di Way Kambas/Lubis, I.R.. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2002) v. 10(2) p. 21

AQUATIC ANIMALS; WILD ANIMALS; SUMATRA.

256 LUBIS, I.R. [Sembilang National Park]. Taman Nasional Sembilang/Lubis, I.R.. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 10-11

SUMATRA; NATIONAL PARKS; FAUNA; SOCIOECONOMIC ENVIRONMENT; NATURE CONSERVATION.

257 MAKMUR, S. [Bird conservation and mangrove rehabilitation efforts in Rambut Island, Seribu archipelago (Indonesia)]. Konservasi burung dan upaya rehabilitasi mangrove di kawasan suaka margasatwa Pulau Rambut, Kepulauan Seribu/Makmur, S. (Balai Riset Perikanan Perairan Umum, Palembang (Indonesia)). Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 6-7

BIRDS; BIODIVERSITY; NATURE CONSERVATION; MANGROVES; ISLANDS; JAVA.

258 PURWANTO, E. [Water crisis in Java: upstream and downstream support on ecosystem restoration in Java Island (Indonesia)]. Krisis air di Jawa menggalang kepedulian hulu-hilir dalam restorasi ekosistem pulau Jawa/Purwanto, E.. Warta Konservasi Lahan Basah (Indonesia) ISSN 0854-963X (2003) v. 11(4) p. 5-7

JAVA; WATER RESOURCES; ECOSYSTEMS; FOREST MANAGEMENT.

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NATIONAL PARKS; RECREATIONAL AREAS; DEVELOPMENT POLICIES; USES; FOREST RESOURCES; JAVA.

**P30 SOIL SCIENCE AND MANAGEMENT / ILMU DAN PENGELOLAAN TANAH**

260 KURNIA, U. [Study on the management of upland marginal soil to increase food production]. Penelitian pengelolaan lahan kering marginal untuk meningkatkan produksi pangan/Kurnia, U.; Sutono, S.; Kusnadi, H.; Djunaedi, M.S. Balai Penelitian Tanah, Bogor (Indonesia). Bogor: Balai Penelitian Tanah, 2003: 50 p.

MARGINAL LAND; LAND MANAGEMENT; DRY FARMING; ACID SOILS; TRACE ELEMENTS; SOIL CHEMICO-

PHYSICAL PROPERTIES; SOIL FERTILITY; PHOSPHATE FERTILIZERS; TECHNOLOGY TRANSFER; FOOD PRODUCTION.

**P31 SOIL SURVEYS AND MAPPING / SURVAI DAN PEMETAAN TANAH**

261 BACHRI, S. [Agricultural commodities zonation map based on agro-ecological zone scale of 1:50.000 in Blora Regency (Indonesia)]. Penyusunan peta pewilayahan komoditas pertanian berdasarkan zona agro-ekologi (ZAE) skala 1:50.000 di Kabupaten Blora/Bachri, S.; Sanjoyo, T.; Mulyadi, Y.; Gunawan, W.; Suharta, N. Balai Penelitian Tanah, Bogor (Indonesia). Bogor: Balai Penelitian Tanah, 2004: 99 p.

JAVA; AGRICULTURAL PRODUCTS; AGROCLIMATIC ZONES; CARTOGRAPHY; REGIONAL DEVELOPMENT.

262 ROPIK. [Agricultural commodities zonation map based on agro-ecological zone scale of 1:50.000 in Temanggung Regency, Province of Central Java (Indonesia)]. Penyusunan peta pewilayahan komoditas pertanian berdasarkan zone agro-ekologi skala 1:50.000 di Kabupaten Temanggung Provinsi Jawa Tengah/Ropik; Suhendra, H.; Sutrisno, U.; Halim, M.; Sarjana; Suharta, N. Balai Penelitian Tanah, Bogor (Indonesia). Bogor: Balai Penelitian Tanah, 2004: 99 p.

JAVA; AGRICULTURAL PRODUCTS; AGROCLIMATIC ZONES; CARTOGRAPHY; REGIONAL DEVELOPMENT.

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

263 ERWIYONO, R. [Effect of slope position and acclivity on the growth and production of young arabica coffee in Andosol soil]. Pengaruh posisi lereng dan kemiringan lahan terhadap pertumbuhan dan produksi kopi arabika muda pada tanah Andosol/Erwiyono, R. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). [Proceeding of the National Seminar on Conservation Tillage Yogyakarta (Indonesia), 3 July 2001]. Prosiding Seminar Nasional Olah Tanah Konservasi, Yogyakarta 3 Juli 2001/Hardiastuti E.K., S.; Lagiman; Rizain, A.W.; Mustadjab H.K.; Wuryani, S.; Rizal, A. (eds.). Universitas Pembangunan Negeri, Yogyakarta (Indonesia). Yogyakarta: UPN, 2001: p. 107-113 6 ill., 4 tables; 6 ref.

COFFEA ARABICA; SLOPING LAND; GROWTH; YIELDS; ANDOSOLS.

264 SOFYAN, A. [Preliminary growth of *Tectona grandis* on acid soil in South Sumatra]. Pertumbuhan awal tanaman jati pada tanah masam di Sumatera Selatan /Sofyan, A.; Triwilaida. [Proceedings of the National Workshop on *Tectona grandis*]. Prosiding Workshop Nasional Jati/Mahfudz; Fauzi, M.A.; Moko, H. Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, Yogyakarta (Indonesia). Yogyakarta: Pusat Penelitian dan Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan, 2003: p. 99-104 3 tables; 5 ref.

TECTONA GRANDIS; RESEARCH; PLANT DEVELOPMENTAL STAGES; GROWTH; ACID SOILS; SUMATRA.

265 SURIADIKARTA, D.A. [Technology of soil organic matter management]. Teknologi pengelolaan bahan organik tanah/Suriadikarta, D.A.; Prihatini, T.; Setyorini, D.; Hartatik, W. (Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia)). [Dry land management technology: towards productive and environmentally friendly agriculture]. Teknologi pengelolaan lahan kering: menuju pertanian produktif dan ramah lingkungan/Adimihardja, A.; Mappaona; Saleh, A. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2002: p. 183-238 1 ill., 31 tables; 89 ref.

FLEMINGIA; FOOD CROPS; COVER PLANTS; STRIP CROPPING; SOIL ORGANIC MATTER; ALLEY CROPPING; FARMYARD MANURE; COMPOSTING; LIMING; SOIL CHEMICOPHYSICAL PROPERTIES; SOIL MANAGEMENT; TECHNOLOGY; JAVA; SUMATRA.

**P35 SOIL FERTILITY / KESUBURAN TANAH**

266 BAON, J.B. [Soil fertility management of coffee plantations to create environmentally friendly farming system]. Pengelolaan kesuburan tanah perkebunan kopi untuk mewujudkan usaha tani yang ramah lingkungan /Baon, J.B.; Abdoellah, S.; Pujiyanto; Wibawa, A.; Erwiyono, R.; Zaenudin; Nur, A.M.; Mardiono, E.; Wiryadiputra, S. (Pusat Penelitian Kopi dan Kakao Indonesia, Jember (Indonesia)). Warta Pusat Penelitian Kopi dan Kakao Indonesia (Indonesia) ISSN 0215-1308 (2003) v. 19(2) p. 107-123 3 ill., 14 tables; 21 ref.



COFFEA; PLANTATIONS; SOIL FERTILITY; SOIL MANAGEMENT; FARMING SYSTEMS; SOIL ORGANIC MATTER; MYCORRHIZAE; WATER CONSERVATION.

267 SANTOSO, D. [Plant nutrient management on dry land]. Pengelolaan hara tanaman pada lahan kering/Santoso, D.; Sofyan, A. [Dry land management technology: towards Productive and Environmentally Friendly Agriculture. Teknologi pengelolaan lahan kering: menuju pertanian produktif dan ramah lingkungan/Adimihardja, A.; Mappaona; Saleh, A. (eds). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2002: p. 73-102 1 ill., 8 tables; 7 ref.

FOOD CROPS; LEGUMES; PLANT NUTRITION; SOIL FERTILITY; SOIL DEFICIENCIES; NUTRIENTS; TRACE ELEMENTS; IRON; MANGANESE; PHYTOTOXICITY; SOIL MANAGEMENT; SUMATRA.

**P36 SOIL EROSION, CONSERVATION AND RECLAMATION / EROSI, KONSERVASI DAN REKLAMASI TANAH**

268 ABDURACHMAN, A. [Technology of erosion control in slopping lands]. Teknologi pengendalian erosi lahan berlereng/Abdurachman, A.; Sutono, S. (Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia)). [Dry land management technology: towards productive and environmentally friendly agriculture]. Teknologi pengelolaan lahan kering: menuju pertanian produktif dan ramah lingkungan/Adimihardja, A.; Mappaona; Saleh, A. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2002: p. 103-146 9 ill., 14 tables; 58 ref.

FOOD CROPS; COVER CROPS; STRIP GRAZING; EROSION; EROSION CONTROL PLANTS; SLOPING LAND; SOIL CONSERVATION; TERRACE CROPPING; LEGUMES; ALLEY CROPPING; CROP MANAGEMENT; MULTIPLE CROPPING; TOPOGRAPHY; WATER EROSION.

269 KURNIA, U. [Technology of rehabilitation and reclamation on dry lands]. Teknologi rehabilitasi dan reklamasi lahan kering/Kurnia, U.; Sudirman; Kusnadi, H. (Pusat Penelitian dan Pengembangan Tanah

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FOOD CROPS; VEGETABLE CROPS; LEGUMES; FARMYARD MANURE; ARID ZONES; RECLAMATION; ENVIRONMENTAL DEGRADATION; SOIL DETERIORATION; SOIL PH; SOIL POLLUTION; SOIL COMPACTION; ALLEY CROPPING; HEDGING PLANTS; TECHNOLOGY; JAVA; SUMATRA.

**Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN PANGAN**

270 BADAN PENGAWAS OBAT DAN MAKANAN REPUBLIK INDONESIA. [Food products preservation]. Mengenal bahan pengawet dalam produk pangan/Badan Pengawas Obat dan Makanan Republik Indonesia, Jakarta (Indonesia). InfoPom (Indonesia) (2003) v. 4(12) p. 1-4 1 table

FOOD PRODUCTION; EDIBLE FUNGI; BACTERIA; BENZOIC ACID; SULPHUR DIOXIDE; NITRITES; PROPIONATES; FOODS; PRESERVATION; BIOLOGICAL PRESERVATION.

271 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. . ["Krisa": salacca crispy]. "Krisa" kripik salak pondoh. Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). Yogyakarta: BPTP Yogyakarta, 2003: 2 p.

SALACCA; PROCESSING; DRYING; EQUIPMENT; DRYERS; PRODUCTION; PACKAGING; COST BENEFIT ANALYSIS.

272 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN YOGYAKARTA. [Diversification of processed arrowroot starch]. Diversifikasi olahan pati garut/Balai Pengkajian Teknologi Pertanian Yogyakarta (Indonesia). [Recommendation of agricultural technology of Yogyakarta Special Province (Indonesia)]. Rekomendasi teknologi pertanian Provinsi Daerah Istimewa Yogyakarta /Mudjishono, R.; Wardhani, N.K.; Musofie,

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MARANTA ARUNDINACEA;  
PROCESSING; DIVERSIFICATION;  
SIMULATED FOODS; CAKES; PROXIMATE COMPOSITION; ORGANOLEPTIC PROPERTIES; TECHNOLOGY TRANSFER.

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**INDEKS PENGARANG / AUTHOR  
INDEX**

- Abdoellah, S. 266  
 Abdurachman, S. 121  
 Abdurachman, A. 268  
 Adie, M.M. 067, 180  
 Adimihardja, A. (ed.)  
 021, 022, 023, 024, 025, 130, 265, 267,  
 268, 269  
 Adiningrat, E.D. 067  
 Adjid, R.M.A. (ed.)  
 014, 041, 060, 077, 251, 292, 295  
 Adriani, E. (ed.)  
 001, 035, 036, 047, 056, 065, 248  
 Afany, M.R. 038  
 Afdi, E. (ed.)  
 009, 063, 094, 125  
 Agus, F. 130  
 Agussalim 122  
 Akuba, R.H. 287  
 Alam, T. 285  
 Alihamsyah, T. 044  
 Amad, M. 144  
 Aminatun, T. 176  
 Ananto, E.E. 112  
 Anas, P. 002  
 Anon 017, 173, 297  
 Anwari, M. 067, 180  
 Arbiwati, D. 131  
 Ardika, I W. 080  
 Ariani, M. 090  
 Aribawa, I.B. 132  
 Arifuddin K. 123  
 Arsyad, D.M. 067, 180  
 Arya, N. 285  
 Ashari (ed.) 215  
 Astuti, M. 091  
 Asyuardi (ed.)  
 009, 063, 094, 125  
 Atekan 018, 019, 020,  
 040, 128  
 Atito 170  
 Awang, S.A. 203  
 Azwar, Z.I. (ed.)  
 237, 241, 243, 243, 244
- B**  
 Bachrein, S. 045  
 Bachri, S. 261  
 Bambang, H. 026  
 Baon, J.B. 266  
 Barlina, R. 289  
 Basuki, N. 067, 180  
 Baswarsiati 159, 160, 186  
 Beding, P.A. 177  
 Bermawi, N. 046  
 Bosovic, I. 082
- Budianto, J. 047  
 Budiningsih, K. 204  
 Buharman, B. (ed.)  
 009, 063, 094, 125  
 Burhan, H. 252
- C**  
 Cholid, M. 194
- D**  
 Darliah, N.S. 166  
 Darmono 194  
 Darmono (ed.) 215  
 Darwis, M. 093  
 Daswir 094  
 Dayan, A. 004  
 Dewi, A.R. 095  
 Diwyanto, K. 041  
 Djajanegara, A. (ed.)  
 014, 041, 060, 077, 251, 292, 295  
 Djajasewaka, H. (ed.)  
 237, 241, 243, 243, 244  
 Djarwaningsih, T. 098  
 Djauhari, A. 186  
 Djulin, A. 049  
 Djunaedi, M.S. 260  
 Dung, P.C. 248
- E**  
 Effendi, G. 120  
 Elizabeth, J. 292  
 Ella, A. 215  
 Endarto, O. 106  
 Endarwati 194  
 Ernawanto, Q.D. (ed.)  
 062, 106, 120, 159, 160, 164, 166, 168,  
 224, 283  
 Erwiyono, R. 263, 266
- F**  
 Fagi, A.M. (ed.)  
 012, 015, 034, 042, 043, 043, 049, 059,  
 061, 073, 084, 089, 090, 101, 109, 197,  
 225  
 Fahri, S. 238  
 Fajar, C. 277  
 Fajar, P.C. 278  
 Fauzi, M.A. (ed.)  
 006, 100, 162, 167, 169, 201, 203, 204,  
 205, 206, 207, 208, 264  
 Fauzi, M.A. 006, 162  
 Fauziati, N. 124  
 Ferry, Y. 050, 051, 192  
 Fiani, A. 094  
 Firdaus, M.S. 238  
 Firmansyah, M.A. (ed.) 039, 044, 105, 124,  
 153, 171, 193, 238, 249  
 Fitriani, V. 174
- G**

Gani, A. 054  
 Ginting, S.P. 292  
 Goenner, C. 253  
 Gothama, A.A.A. 182  
 Gultom, H. 293  
 Gunawan 216  
 Gunawan, W. 261  
 Guntoro, B. 217

**H**

Habibullah, M.S. 052  
 Hadad, E.A. 116  
 Hadiaty, R.K. 232  
 Hadie, L.E. (ed.)  
 237, 241, 243, 244  
 Hakim, N. 083  
 Halim, M. 262  
 Hambali 161  
 Hardianto, R. 224  
 Hardiastuti E.K., S. (ed.)  
 038, 131, 132, 133, 134, 135, 136, 137,  
 138, 139, 140, 141, 142, 143, 144, 145,  
 146, 147, 195, 196, 252, 263  
 Hariyanto 106  
 Harmayani, E. 091  
 Harsanti, L. 161  
 Harsanti, S. 135  
 Hartatik, W. 265  
 Hartono, A. 249  
 Harwono, R. (ed.)  
 016, 055, 070, 074  
 Haryanti 245  
 Haryanto, B. 112, 199  
 Haryono (ed.)  
 001, 035, 036, 047, 056, 065, 248  
 Hasanuddin 101  
 Hasnam 033, 053  
 Hastuti, A.D. (ed.)  
 039, 044, 105, 124, 153, 171, 193, 238,  
 249  
 Hasudungan, F. 231  
 Hatta, M. (ed.)  
 022, 023, 024, 025  
 Helmi 009  
 Hendrata, R. 150  
 Herawan, T. 205  
 Herdiana, U.R. 235  
 Hermanto (ed.)  
 010, 011, 013  
 Hernani 296  
 Heryawan, K.M. 126  
 Hidayat, A. 021  
 Hosang, M. 178  
 Hulupi, R. 163

**I**

Ibrahim, N. 190  
 Ibrahim, T.M. (ed.)  
 022, 023, 024, 025  
 Idroes, A. 050

Ilham, N. 225  
 Ilyas, A.Z. 218, 294  
 Indrayani, I G.A.A. 183  
 Indrayati, L. 139  
 Indriani, N.P. 126  
 Inounu, I. (ed.)  
 014, 041, 060, 077, 251,  
 292, 295  
 Iqbal, M. 254  
 Irfan, Z. (ed.)  
 009, 063, 094, 125  
 Irianto, M.Y. 252  
 Ishaq, I. 045  
 Ismail B.P. 170  
 Ismail, C. 117  
 Ismail, W. 240  
 Ismayadi, C. 288  
 Istuti, W. 062

**J**

Jagau, Y. 193  
 Jamal, E. 084  
 Januwati, M. 192  
 Jaya, R. 238  
 Juliardi, I. 150  
 Jumali 118

**K**

Kanro, M.Z. 040, 152  
 Karindah, S. 184  
 Karouw, S. 289  
 Kartono, G. (ed.)  
 062, 106, 120, 159, 160,  
 164, 166, 168, 224, 283  
 Kartono, G. 062  
 Kasijadi, F. 062, 120  
 Kasno, A. 067, 180  
 Kasryno, F. (ed.)  
 010, 012, 012, 015, 015,  
 034, 034, 042, 042, 043,  
 043, 049, 049, 059, 061,  
 073, 084, 089, 090, 101,  
 109, 197, 225  
 Kobarsih, M. 150  
 Komala, C. (ed.)  
 001, 035, 036, 047, 056,  
 065, 248  
 Komariah, K. 279, 290  
 Korlina, E. 159  
 Krisdiarto, A.W. (ed.)  
 016, 055, 070, 074  
 Krismawati, A. 171  
 Krisnamurti, B. 011  
 Kristantini (ed.)  
 016, 055, 070, 074, 107  
 Kristijono, A. 022  
 Kuncoro, D.D. 160  
 Kurnia, U. 260, 269  
 Kurniasih, T. 229  
 Kusdianan, D. 184

Kusnadi, H. 260, 269  
 Kusumawardhani, N. 217  
 Kuswanto 067, 180

**L**

Lagiman (ed.)  
 038, 131, 132, 133, 134,  
 135, 136, 137, 138, 139,  
 140, 141, 142, 143, 144,  
 145, 146, 147, 195, 196,  
 252, 263  
 Laining, A. 239  
 Las, I. (ed.)  
 009, 054, 063, 094, 112,  
 125  
 Leiwaherilla, N. 020  
 Leksono, B. 099  
 Lestari, B. 091  
 Lestari, M.S. 123  
 Limbongan, J. (ed.)  
 018, 019, 020, 040, 108,  
 123, 127, 128, 151, 152,  
 177, 226, 227, 242  
 Lolong, A.A. 178  
 Louw, J. (ed.)  
 018, 019, 020, 040, 108,  
 123, 127, 128, 151, 152,  
 177, 226, 227, 242  
 Lubis, D. (ed.) 014, 041,  
 060, 077, 251, 292, 295  
 Lubis, I.R. 255, 256  
 Lubis, S. 250

**M**

Mahfud, M.C.I. 062  
 Mahfudz (ed.)  
 006, 006, 100, 162, 162,  
 167, 169, 201, 203, 204,  
 205, 206, 207, 208, 264  
 Mahmud, Z. 178  
 Makarim, A.K. (ed.)  
 010, 011, 013  
 Makmur, S. 257  
 Maningding, A.B. 035  
 Manokara, D. 189  
 Manti, I. 041  
 Mappaona (ed.)  
 021, 130, 265, 267, 268,  
 269  
 Mardiono, E. 266  
 Marsetio 280  
 Martini, T. 107  
 Martono R.,E. 055  
 Marwati, Z. 296  
 Marzuqi, M. 245  
 Mas'oen, H. 023  
 Masbaitubun, H. 242  
 Masganti (ed.)  
 039, 044, 105, 124, 153,

171, 193, 238, 249  
 Mashudi 099  
 Massinai, R. 105, 249  
 Masyhudi, M.F. (ed.)  
 092, 113, 148, 149, 155,  
 156, 157, 158, 219, 220,  
 221, 222, 223, 272, 273,  
 274, 275  
 Mathius, I W. (ed.)  
 014, 041, 060, 077, 215, 251, 292, 295  
 Mathius, I.W. 041  
 Mawardi, S. 163  
 Moko, H. (ed.)  
 006, 162, 162, 167, 169,  
 201, 203, 204, 205, 206,  
 207, 208, 264  
 Muchsin, I. 236  
 Mudjishono, R. (ed.)  
 092, 113, 148, 149, 150,  
 155, 156, 157, 158, 219,  
 220, 221, 222, 223, 272,  
 273, 274, 275  
 Mugiono 161  
 Mula, S.H. 138  
 Mulya, S. 133  
 Mulyadi 107, 133, 135,  
 138, 141  
 Mulyadi, Y. 261  
 Mulyani, A. 021  
 Mulyaningsih, S. 194  
 Mumpuni 233  
 Munandar, S. 056  
 Munarso, S.J. 118, 197  
 Murdiati, T.B. (ed.)  
 215  
 Murwati (ed.)  
 016, 055, 070, 074  
 Musofie, A. (ed.)  
 092, 113, 148, 149, 155,  
 156, 157, 158, 217, 219,  
 220, 221, 222, 223, 272,  
 273, 274, 275  
 Mustadjab H.K. (ed.)  
 038, 131, 132, 133, 134, 135, 136, 137,  
 138, 139, 140, 141, 142, 143, 144,  
 145, 146, 147, 195, 196, 252, 263  
 Mustafa, M. 150  
 Mustaha, A. 122  
 Mustika, I. 179

**N**

Naharia, O. 195  
 Nakashima, T. 001  
 Natasukarya, A. (ed.)  
 001, 035, 036, 047, 056, 065, 248  
 Neron, M.L. 036  
 Ningtias N., E.M. 180  
 Noor, N. 088  
 Nugraha, U.S. 101, 198, 250



Nugrahaeni 180  
 Nugrahaeni, N. 067  
 Nugroho, E. 229  
 Nugroho, T.K. 150  
 Nur, A.M. 057, 266  
 Nurdin, F. (ed.)  
 009, 063, 094, 125  
 Nurindah (ed.)  
 181, 182, 183, 190, 194  
 Nurindah 182, 183  
 Nurjayanti, S. (ed.)  
 001, 035, 036, 047, 056, 065, 248  
 Nurmawati, S. 175  
 Nurtini, S. 217

**P**

Pambunan, S. (ed.)  
 018, 019, 020, 040, 108,  
 123, 127, 128, 151, 152,  
 177, 226, 227, 242  
 Pandit, I.G.S. (ed.)  
 037, 058, 078, 080  
 Pane, H. 102  
 Pasambe, D. 215  
 Pasandaran, E. (ed.)  
 012, 015, 034, 042,  
 043, 049, 059, 061,  
 073, 084, 089, 090, 101, 109, 197, 225  
 Pasandaran, E.  
 012, 043, 073, 090  
 Pasang, P.M. 289  
 Permana, G.N. 245  
 Pikir 160  
 Poerwanto, M.E. 134  
 Poniman 135  
 Prahardini, P.E.R. 164  
 Prajitno 107  
 Pranadji, T. 073  
 Pratiwi, E. 240  
 Pratomo, A.H. 281  
 Pratomo, T.W.J. 299  
 Prayanto, D. (ed.) 014,  
 041, 060, 077, 251, 292,  
 295  
 Prayudi, B. 044  
 Prihatini, T. 265  
 Priyanti, A. (ed.) 014,  
 041, 060, 077, 251, 292,  
 295  
 Priyono 057  
 Pujiyanto 266  
 Purbiati, T. 165, 166  
 Purnomo, J. 067, 180  
 Purwaningsih, H. (ed.)  
 016, 055, 070, 074  
 Purwanto, E. 258  
 Pustika, A.B. 107  
 Putro, S. 237

**R**

Rachbini, D.J. 013  
 Rachim 066, 285  
 Rachman, B. 089  
 Rachmanadi, D. 206  
 Rachmat, R. 250  
 Rahardjo, B.T. 184  
 Rahardjo, M. 076, 104,  
 119  
 Rahardjo, P. 057  
 Rahayu, L.R. (ed.)  
 037, 058, 078, 080  
 Rahayuningsih, S.A. (ed.) 067, 180  
 Rahmianna, A.A. 136  
 Ramli, R. 105  
 Rasyad, S. 125  
 Rauf, A.W. 019, 127,  
 152  
 Rediaryanta, I.W. 066,  
 285  
 Resdiono, B. (ed.) 014,  
 041, 060, 077, 251, 292,  
 295  
 Rimbawanto, A. 167  
 Risma, E. 298  
 Ritung, S. 300  
 Riwanodja 136  
 Rizain, A.W. (ed.)  
 038, 131, 132, 133, 134, 135, 136, 137,  
 138, 139, 140, 141, 142, 143, 144, 145,  
 146, 147, 195, 196, 252, 263  
 Rizal, A. (ed.)  
 038, 131, 132, 133, 134, 135, 136, 137,  
 138, 139, 140, 141, 142, 143, 144, 145,  
 146, 147, 195, 196, 252, 263  
 Roemokoy, A.F.H. 014  
 Roesmarkam, S. 120, 168  
 Roesmiyanto 120  
 Ropik 262  
 Rosita, S.M.D. 119  
 Rosmahani, L. 185, 186,  
 186  
 Rouw, A. 019  
 Royaningsih, S. 199  
 Rukayah 249  
 Rusastra, I.W. 015, 066,  
 285  
 Rusmana 206  
 Rustidja 067, 180

**S**

Sabran, M. 105  
 Sadhardjo, S.M. 169  
 Sadra, D.K. (ed.)  
 039, 044, 105, 124, 153, 171, 193, 238,  
 249  
 Saenong, S. 127  
 Sahardi 122  
 Sahubawa, L. 200  
 Saleh, A. (ed.)

- 021, 130, 265, 267, 268, 269  
 Saleh, C. 084  
 Samaullah, M.Y. 170  
 Samayanti 166  
 Sampurno, O.D. 293  
 Sanjoyo, T. 261  
 Santosa, T. 150  
 Santoso, D. 267  
 Santoso, P. 085  
 Santoso, Y. 160  
 Saragih, E.S. 137  
 Sariubang, M. 215  
 Sarjana 262  
 Sarjono 150  
 Sarwani, M. (ed.)  
 039, 044, 044, 105, 124, 153, 171, 193,  
 238, 249  
 Sasa, J. 133, 138  
 Sediono, D. 045  
 Setiadi, B. (ed.) 014, 041,  
 060, 077, 215, 251, 292, 295  
 Setyadi, I. 245  
 Setyono, A. 150  
 Setyorini, D. 265  
 Shaulis, S. 086  
 Siddik, I.B. 241  
 Sihombing, S.R.D. 108,  
 151  
 Sihombing, S.R.D. (ed.)  
 018, 018, 019, 020, 040, 108, 123, 127,  
 128, 151, 152, 177, 226, 227, 242  
 Sihontang, H. 293  
 Simatupang, P. 024, 037,  
 059, 074  
 Simatupang, R.S. 132, 139  
 Sinaga, T. 285  
 Sinurat, A.P. (ed.) 215  
 Siswoto 160  
 Sitompul, D. 041, 060  
 Soebandrijo 182  
 Soegiyanto, M. 159  
 Soejitno, J. (ed.)  
 010, 011, 013  
 Soejono, A.T. 196  
 Soemangat 016  
 Soentoro 041  
 Sofyan, A. 264, 267  
 Somantri, A.S. 007  
 Sopiawati, T. 141  
 Soplanit, A. 242  
 Sri-Mulato 075  
 Suaria, N. (ed.)  
 037, 058, 078, 080  
 Subaidi, A. 171  
 Subandi 101, 194  
 Subarna, T. 045  
 Subekti, S. 057  
 Subiyakto 182, 183, 190,  
 194  
 Sudaratmaja, I G.A.K. (ed.)  
 037, 058, 066, 078, 080,  
 285  
 Sudarmaji 184  
 Sudarnika, E. 218, 294  
 Sudarto 246  
 Sudaryanto, B. 107  
 Sudaryanto, T. (ed.)  
 039, 044, 105, 124, 153,  
 171, 193, 238, 249  
 Sudaryono 250  
 Sudiarto 076  
 Sudihardjo, A.M. (ed.)  
 092, 113, 148, 149, 155,  
 156, 157, 158, 219, 220,  
 221, 222, 223, 272, 273,  
 274, 275  
 Sudirman 269  
 Sudradjat, A. (ed.)  
 237, 241, 243, 244  
 Sugeng 091  
 Sugiarto, M. 165  
 Sugiatno, A. 106  
 Sugiyarto, M. 085, 185  
 Suhardi 283  
 Suhardjo (ed.)  
 062, 085, 106, 120, 120,  
 159, 160, 164, 165, 166,  
 168, 185, 224, 283  
 Suhardjo 283  
 Suharijanto 135  
 Suharisno 207  
 Suharsih 141  
 Suharta, N. 261, 262  
 Suharto 140  
 Suhenda, N. (ed.)  
 237, 241, 243, 244  
 Suhenda 243  
 Suhendra, H. 262  
 Sujitno, E. 045  
 Sukadi 106  
 Sukadi, M.F. 244  
 Sukarminah, E. 284  
 Sukarti, T. 284  
 Sulistyono, B. 057  
 Sulistyowati 291  
 Sulisyowati, D. 166  
 Sumanti, D.M. 284  
 Sumardi 210  
 Sumaryanto 061  
 Sumedi 084  
 Sunardi 171  
 Suntoro 112  
 Suparno 208  
 Suprpto 066  
 Suprihatno, B. (ed.)  
 010, 011, 013  
 Supriyanto, A. 106  
 Supriyanto, H. 100, 162  
 Suratman 038  
 Suriadikarta, D.A. 265

Surmaini, E. 130  
 Susanto, B. 245  
 Susilawati, I. 126  
 Sutardi 107  
 Sutarpan 201  
 Sutaryo, D. 209  
 Suteja, T. 234  
 Sutono, S. 260, 268  
 Sutrisno, N. 130  
 Sutrisno, U. 262  
 Suwandi (ed.)  
 010, 011, 013  
 Suwardji 142  
 Suwarno 112  
 Suwarso (ed.)  
 067, 180  
 Suwono 062  
 Suyadi 143  
 Suyanto 120, 168  
 Syafa'at, N. 049  
 Syafaat, N. 039  
 Syafitrie, C. (ed.)  
 001, 035, 036, 047, 056,  
 065, 248  
 Syahidah, D. 245  
 Syam, M. (ed.)  
 010, 011, 013  
 Syamsuddin 018, 040,  
 108, 127, 128, 151, 152  
 Syukur, M. 025  
 Syukur, M. (ed.)  
 022, 023, 024, 025

**T**

Taher, A. 063  
 Tangendjaja, B. 109, 225  
 Taufiq, M. 160  
 Thahir, R. 197  
 Thohari, E.S. 077  
 Tirajoh, S. 018, 226, 227  
 Tjitropranoto, P. (ed.)  
 001, 035, 036, 047, 056,  
 065, 248  
 Tjitrosemito, S. 144  
 Tjokrowardojo, A.S. 145  
 Tresnawati P., M.B.  
 (ed.) 215  
 Trisnawati, N.W. 285  
 Triwilaida 264  
 Triwiratno, A. 106  
 Triwulan, I. 187  
 Trustinah 067

**U**

Umniyatie, S. 286  
 Unadi, A. 251  
 Utomo, B.N. 153  
 Utomo, I.H. 146  
 Utomo, M. 147

**V**

Valleriana 064

**W**

Wahjoeningroem, G.R.D.  
 (ed.) 016, 055, 070, 074  
 Wahyudi, P. 202  
 Wahyunto 026, 300  
 Wally, F. 020  
 Wardani 057  
 Wardhani, N.K. (ed.)  
 092, 113, 148, 149, 155, 156, 157, 158,  
 219, 220, 221, 222, 223, 272, 273, 274, 275  
 Wibawa, A. 266  
 Widagdo 026, 300  
 Widajati, E. (ed.)  
 062, 085, 106, 120, 159,  
 160, 164, 165, 166, 168,  
 185, 224, 283  
 Widiarta, N.I. 054  
 Widiarto, I.N. (ed.)  
 010, 011, 013  
 Wididana, G.N. 078  
 Widjaja, E. 153  
 Widjono, A. 065  
 Widodo, B. 252  
 Widodo, S. 091, 107, 150  
 Winaryo 110  
 Wirajaya, A.A.M. (ed.)  
 037, 058, 078, 080  
 Wiryadiputra, S. 266  
 Wiyono, A. (ed.) 215  
 Wulandari, Y.F. 079, 111  
 Wuryani, S. (ed.)  
 038, 131, 132, 133, 134,  
 135, 136, 137, 138, 139,  
 140, 141, 142, 143, 144,  
 145, 146, 147, 195, 196,  
 252, 263

**Y**

Yasa, I M.R. 066  
 Yuli (ed.)  
 039, 044, 105, 124, 153,  
 171, 193, 238, 238, 249  
 Yuliani, S. 081  
 Yulianti, T. 190  
 Yulipriyanto, H. 129  
 Yuniarti (ed.) 186  
 Yuniarti 159, 160, 164,  
 166  
 Yuniastuti, S. 120  
 Yusdja, Y 225  
 Yusran, M.A. 186  
 Yustiana, Y. 259  
 Yuwati, T.W. 206

**Z**

Zaenudin 266, 288  
Zaini, Z. 047, 112  
Zen, S. (ed.)  
009, 063, 094, 125  
Zubaidah, E. 184

<b>INDEKS SUBYEK / SUBJECT INDEX</b>		
	076, 077, 078, 197, 208, 211, 213, 214, 251	188, 232, 233, 240, 245
	AGRONOMIC	ANIMAL PRODUCTION
<b>A</b>	CHARACTERS	230
ABANDONED LAND	156, 163, 168, 170, 171	ANNONACEAE
132	AGROPASTORAL	175
ABATTOIRS	SYSTEMS	ANOMIS
199	148	182, 183
ACID SOILS	AGROPISCICULTURE	ANTIOXIDANTS
260, 264	242	046
ACIDITY	ALEURODICUS	ANTIVIRAL AGENTS
021	178	046
ADAPTABILITY	ALLEY CROPPING	APHIS
161	265, 268, 269	107
ADAPTATION	ALLIUM	APHIS GOSSYPHII
155, 159, 160, 163, 164, 166, 168, 171, 192	ASCALONICUM	182
ADMINISTRATION	149, 155, 159	APPLICATION RATES
069	ALLIUM CEPA	121, 123, 127, 128, 184
ADVISORY OFFICERS	186	APPROPRIATE
001, 003	ALLIUM SATIVUM	TECHNOLOGY
AGRICULTURAL	186	045, 062, 067, 120, 217, 224
DEVELOPMENT	ALOE VERA	224
003, 005, 018, 019, 020, 021, 023, 024, 029, 032, 037, 038, 039, 044, 047, 058, 065, 074, 078	119	AQUATIC ANIMALS
AGRICULTURAL	ALTERNARIA	222, 255
ECONOMICS	190	ARECA CATECHU
009, 016, 070, 073	ALTERNARIA PORRI	051, 287
AGRICULTURAL	186	ARID ZONES
POLICIES	ALUMINIUM	021, 269
001, 016, 036, 047, 050, 070, 101, 111	193	ARTIFICIAL
AGRICULTURAL	AMARANTHUS	INSEMINATION
PRODUCTS	SPINOSUS	228, 230
012, 036, 045, 078, 082, 089, 261, 262	194	ARTOCARPUS ALTILIS
AGRICULTURAL	AMERICA	282
SECTOR	109	ASHES
058	ANACARDIUM	128
AGRICULTURAL	OCCIDENTALE	ASIA
WASTES	172	246
218, 224	ANALYSIS	ASPERGILLUS
AGRICULTURE	059, 061	288
004, 080	ANDOSOLS	ASPERGILLUS FLAVUS
AGROCLIMATIC ZONES	263	287
018, 019, 020, 261, 262	ANGUILLA	ASPERGILLUS NIGER
AGROECOSYSTEMS	236	223
018, 019, 020, 043, 101, 108, 118, 155, 165	ANIMAL	ASPIDIOTUS
AGROINDUSTRIAL	212	178
COMPLEXES	ANIMAL BREEDING	AURICULARIA
022	228	091
AGROINDUSTRIAL	ANIMAL DISEASES	AVOCADOS
SECTOR	216	096
009, 015, 025, 029, 037, 045, 048, 063, 068, 069, 070, 071, 072, 073, 074,	ANIMAL ECOLOGY	AZOLLA
	234	125
	ANIMAL HOUSING	
	066, 211, 228	<b>B</b>
	ANIMAL HUSBANDRY	BACTERIA
	027, 213, 214, 215	199, 270
	ANIMAL HUSBANDRY	BACTROCERA
	METHODS	186
	211	BALI
	ANIMAL	058, 066, 080, 285
	MORPHOLOGY	BAMBOOS
		079

- BANANAS  
282
- BEEF CATTLE  
008, 148, 214, 219
- BEHAVIOUR  
218, 294
- BENZOIC ACID  
270
- BIODEGRADATION  
131
- BIODIVERSITY  
094, 202, 234, 257
- BIOFERTILIZERS  
124
- BIOLOGICAL CONTROL  
181
- BIOLOGICAL CONTROL AGENTS  
179
- BIOLOGICAL PRESERVATION  
270
- BIOTA  
222
- BIOTECHNOLOGY  
202
- BIRDS  
253, 257
- BISCUITS  
280
- BODY WEIGHT  
215
- BOTANICAL PESTICIDES  
176, 0179
- BOTRYODIPLODIA FUSARIUM OXYSPORUM  
190
- BRASSICA OLERACEA CAPITATA  
186
- BREEDING METHODS  
211, 229
- BROILER CHICKENS  
225
- BULK STORAGE  
200
- BYPRODUCTS  
292
- C**
- CAGE CULTURE  
240
- CAKES  
272, 282
- CANNA EDULIS  
280
- CAPITAL  
073
- CAPSICUM ANNUUM  
149, 186
- CARBOFURAN  
184
- CARBOSULFAN  
184
- CARTOGRAPHY  
261, 262
- CASSAVA  
273, 275, 283
- CATTLE  
014, 041, 060, 066, 069, 105, 225, 226
- CHEMICAL COMPOSITION  
111, 171, 172, 292
- CHEMICOPHYSICAL PROPERTIES  
160
- CHICKEN MEAT  
199
- CHICKENS  
199, 216
- CHILE  
036
- CINNAMOMUM BURMANNI  
094
- CITRUS  
097
- CLONES  
162, 163, 169, 206
- COASTS  
002
- COCCINELLIDAE  
183
- COCONUT OIL  
289
- COCONUT WATER  
278
- COCONUTS  
278, 289
- COCOS NUCIFERA  
093, 178, 187
- COFFE INDUSTRY  
075
- COFFEA  
028, 266
- COFFEA ARABICA  
071, 263
- COFFEA BEAN  
288
- COFFEA CANEPHORA  
057, 071, 163
- COFFEE  
075, 083, 088, 291
- COFFEE INDUSTRY  
028, 088
- COLLETOTRICHUM  
186
- COLOCASIA ESCULENTA  
151
- COMMELINA  
194
- COMMODITY MARKETS  
005
- COMMUNICATION TECHNOLOGY  
002
- COMPOST  
129
- COMPOSTING  
129, 265, 295
- COMPOSTS  
060
- COMPOUND FEEDS  
227
- CONCENTRATES  
219, 220, 221, 225
- CONSERVATION TILLAGE  
132, 134, 137, 140, 142, 143, 145, 146, 196
- CONSUMER BEHAVIOUR  
090
- CONSUMER PRICES  
084, 089
- CONSUMER PROTECTION  
203
- CONSUMPTION  
008, 042
- CONTAINERS  
200
- CONTAMINATION  
287, 288
- CONTROL  
192
- CONTROL METHODS  
178, 191, 213
- COOLING  
200
- COOPERATIVES  
001
- CORN STARCH  
197
- COST ANALYSIS  
191
- COST BENEFIT  
059, 061
- COST BENEFIT ANALYSIS  
040, 049, 062, 064, 097, 123, 151, 248, 271
- COSTS  
077, 085, 120, 217
- COTTAGE INDUSTRY

- 273  
COTTON 033  
COVER CROPS 268  
COVER PLANTS 265  
CRABS 245  
CREDIT 069, 072, 077  
CROP MANAGEMENT 049, 061, 094, 107, 130, 152, 268  
CROP PERFORMANCE 160, 170, 193, 206  
CROPPING SYSTEMS 139  
CROPS 032, 066, 114, 143, 176  
CROSSBREDS 221  
CRUDE FIBRE 223  
CULTIVATION 012, 0062, 064, 091, 092, 093, 0094, 095, 096, 097, 099, 100, 101, 102, 103, 104, 106, 107, 108, 109, 110, 115, 117, 151, 157, 164, 0171, 201, 204, 206, 208  
CULTURAL DEVELOPMENT 080  
CURCUMA 277  
CUT FLOWERS 166  
CYNODON DACTYLON 194  
CYPERUS ROTUNDUS 194  
CYPRINUS CARPIO 241
- D**  
DAIRY CATTLE 211, 218, 220, 294  
DAIRY FARMS 218  
DECENTRALIZATION 015  
DEMAND 034, 042, 082, 090, 225, 237  
DESIGN 247  
DEVELOPING COUNTRIES 042  
DEVELOPMENT POLICIES 012, 015, 028, 031, 032, 033, 034, 050, 051, 055, 058, 071, 104, 207, 213, 244, 259  
DIETARY FIBRES 081  
DIFFUSION OF INFORMATION 001, 006, 065  
DIGITARIA CILIARIS 194  
DIOSCOREA 035  
DIRECT SOWING 102, 108, 156, 158  
DISEASE CONTROL 097, 185, 189, 190, 216, 241, 288  
DISEASE RESISTANCE 157, 160, 188  
DISEASE TRANSMISSION 235  
DISTILLING 296  
DIPTEROCARPACEAE 209  
DIVERSIFICATION 010, 012, 057, 063, 272, 273, 286  
DNA FINGERPRINTING 229  
DOLOMITE 125  
DOMESTIC MARKETS 055, 089  
DOMESTIC TRADE 089  
DOSAGE 122, 127  
DRAINAGE SYSTEMS 242  
DROUGHT RESISTANCE 180  
DROUGHT STRESS 180, 192  
DRUG PLANTS 046, 076, 104, 111, 119, 293  
DRUG THERAPY 296  
DRUGS 296  
DRY FARMING 040, 045, 049, 066, 215, 249, 260  
DRY PERIOD 220  
DRY SEASON 155  
DRYERS 271  
DRYING 091, 197, 198, 271, 284  
DUCKS 222, 223  
DURATION 284
- E**  
ECHINOCHLOA CRUSGALLI 194  
ECOLOGY 176  
ECONOMETRIC MODELS 052  
ECONOMIC ANALYSIS 008, 041, 057, 075, 108, 223, 241, 248, 274  
ECONOMIC COMPETITION 059, 089  
ECONOMIC DEVELOPMENT 014, 016, 052, 070, 073, 080  
ECONOMIC POLICIES 012, 015, 042  
ECONOMIC SITUATION 055  
ECONOMIC SOCIOLOGY 002  
ECONOMIC VALUE 077, 285  
ECOSYSTEMS 093, 258  
EDIBLE FUNGI 270  
EDUCATION 01, 035, 056  
EFFICIENCY 122, 124, 127, 130  
EGG PRODUCTION 222  
ELAEIS GUINEENSIS 014, 0030, 041, 060, 153  
ELEUSINE INDICA 194  
EMBRYO TRANSFER 230  
EMPOASCA 107

ENTERPRISES	007, 064, 112	PRODUCTS	284
031, 203	FARMERS	FERTILIZER	
ENVIRONMENT	001, 023, 027, 035, 037,	APPLICATION	104, 121, 122, 123, 127,
137, 297, 298	039, 056, 084, 112, 154,	128	
ENVIRONMENTAL	197, 218, 294	FERTILIZER	
DEGRADATION	FARMERS	EQUIPMENT	249
030, 269	ASSOCIATIONS	FERTILIZERS	064
ENVIRONMENTAL	001, 035, 056, 069	FINANCIAL	
PROTECTION	FARMING SYSTEMS	INSTITUTIONS	016, 042, 073
298	016, 034, 039, 040, 045,	FINANCIAL POLICIES	059
EPINEPHELUS	049, 054, 057, 059, 060,	FINANCING	014, 077
239	061, 062, 063, 069, 073,	FISH	200, 281
EQUIPMENT	074, 105, 112, 115, 134,	FISH CULTURE	105, 229, 237, 238, 241,
271	135, 156, 215, 266	243, 244, 245	
EQUIPMENT	FARMLAND	FISH DISEASES	241
CHARACTERISTICS	018, 019, 020, 0300	FISH FARMS	241
247	FARMS	FISH FEEDING	242, 243, 244
EQUIPMENT	069	FISH LARVAE	236, 240, 243, 245
PERFORMANCE	FARMYARD MANURE	FISH PONDS	241
075	109, 113, 125, 128, 265,	FISH PROCESSING	105
ERIAS VITTELLA	269	FISH PRODUCTION	246
182	FATTENING	FISH PRODUCTS	281
EROSION	219	FISHERIES	237, 243
268	FATTY ACIDS	FISHERIES POLICIES	244
EROSION CONTROL	286, 289	FISHERMEN	002F
PLANTS	FAUNA	FISHERY PRODUCTION	229, 237
268	256	FLAVOURINGS	291
ESSENTIAL OILS	FEED	FLEMINGIA	265
296	034	FLOURS	273, 275, 280, 283
ETHNOBOTANY	FEED CONVERSION	FOOD CONSUMPTION	090
172	EFFICIENCY	FOOD CROPS	029, 103, 115, 152, 249,
EUCALYPTUS PELLITA	222	265, 267, 268, 269	
099	FEED CROPS	FOOD INDUSTRY	090, 274, 275
EUGENIA	219		
CARYOPHYLLUS	FEED GRASSES		
057	153		
EUPHORBIA	FEED INDUSTRY		
194	225		
EVALUATION	FEED INTAKE		
005, 006, 216	220		
EXPORT CONTROL	FEED PROCESSING		
083	224, 251, 292		
EXPORTS	FEED PRODUCTION		
008, 028, 029, 085, 089,	244		
097, 234, 237, 287	FEED RESOURCES		
EXTENSIFICATION	244		
053	FEEDING LEVEL		
EXTENSION	243		
ACTIVITIES	FEEDING		
001, 003, 004, 056	PREFERENCES		
<b>F</b>	243		
FARM EQUIPMENT	FEEDS		
251	041, 148, 211, 215, 216,		
FARM INCOME	222, 223, 224, 226, 228,		
023, 040, 061, 074, 151,	239, 240, 245, 292		
217, 221, 222, 238	FERMENTATION		
FARM INPUTS	223, 226, 276, 284, 286		
015, 049, 061, 217	FERMENTED FOODS		
FARM MANAGEMENT	286		
	FERMENTED		



- FOOD PRODUCTION  
   260, 270  
 FOOD SECURITY  
   009, 063, 070, 103, 252  
 FOOD STOCKS  
   013  
 FOOD TECHNOLOGY  
   273, 276  
 FOODS  
   270, 290  
 FOOT AND MOUTH  
   DISEASE  
   235  
 FORAGE  
   066, 148, 221  
 FOREST MANAGEMENT  
   258  
 FOREST NURSERIES  
   169, 207  
 FOREST  
   REHABILITATION  
   208  
 FOREST RESOURCES  
   208, 259  
 FORESTRY  
   052  
 FREEZING  
   200  
 FRESHWATER CATFISH  
   246  
 FRESHWATER FISHES  
   229, 238  
 FRUIT JUICES  
   173  
 FUNCTIONAL  
   DISORDERS  
   191  
 FURROW IRRIGATION  
   242  
 FUSARIUM  
   186  
  
**G**  
 GENE POOLS  
   154  
 GENETIC  
 ENGINEERING  
   167  
 GENETIC MAPS  
   167  
 GENETIC PARAMETER  
   162  
 GENETIC RESOURCES  
   111, 158  
 GENETICALLY  
   MODIFIED  
   ORGANISMS  
   109  
 GENETICS  
   169  
  
 GENOTYPE ENVIRON-  
   MENT INTERACTION  
   157  
 GENOTYPES  
   161  
 GEOGRAPHICAL  
   DISTRIBUTION  
   174, 175, 232, 233  
 GERMINATION  
   180  
 GERMPASMS  
   169  
 GIGANTOCHLOA  
   079  
 GLOMERELLA  
   CINGULATA  
   185  
 GLUCOSE SYRUPS  
   197  
 GLYCINE MAX  
   040, 105, 117, 120, 136,  
   151  
 GOATS  
   215, 221  
 GOSSYPIUM  
   053, 181, 182, 183, 190,  
   194  
 GOVERNMENT  
   009  
 GRINDERS  
   250  
 GROUPERS  
   239  
 GROWING MEDIA  
   129  
 GROWTH  
   123, 124, 126, 136, 143,  
   159, 165, 206, 238, 239,  
   263, 264  
 GROWTH PERIOD  
   223  
 GROWTH RATES  
   113  
 GUANO  
   125  
  
**H**  
 HABITATS  
   245  
 HALOPHYTES  
   202  
 HARVESTING  
   094, 097, 104, 106, 198,  
   240  
 HARVESTING DATE  
   177  
 HATCHERIES  
   245  
 HEALTH  
   228  
  
 HEALTH FOODS  
   096  
 HEDGING PLANTS  
   269  
 HELICOVERPA  
   ARMIGERA  
   181, 182  
 HERBAL TEAS  
   046  
 HERBICIDES  
   137, 139, 142, 196, 252  
 HERONS  
   231  
 HEVEA BRASILIENSIS  
   191  
 HIBISCUS  
   CANNABINUS  
   171  
 HIGH YIELDING  
   VARIETIES  
   049, 076, 101, 154, 157,  
   158, 159, 160, 163, 165,  
   166, 168, 170  
 HORTICULTURE  
   029  
 HOUSEHOLD  
   CONSUMPTION  
   090  
 HUMAN DISEASES  
   081  
 HUMAN NUTRITION  
   281  
 HUMAN RESOURCES  
   003, 008, 027, 032, 037  
 HYBRIDIZATION  
   156  
 HYBRIDS  
   043, 0049, 059, 061,  
   115, 180  
  
**I**  
 IMPERATA  
   CYLINDRICA  
   194  
 IMPORTS  
   028, 029, 087, 089, 097,  
   235  
 IN VITRO CULTURE  
   167  
 INCOME  
   011, 013  
 INDONESIA  
   012, 021, 028, 033, 042,  
   047, 055, 056, 059, 067,  
   073, 084, 088, 111, 130,  
   181, 286  
 INDUSTRIAL CROPS  
   007, 057, 072, 116, 192  
 INDUSTRIAL USES  
   012

- INDUSTRIAL WASTES  
125
- INDUSTRIALIZATION  
074
- INDUSTRY  
079, 202
- INFORMATION  
SERVICE  
005
- INFORMATION  
SYSTEMS  
109
- INFORMATION  
TECHNOLOGY  
007, 009, 063
- INFRARED SPECTRO-  
PHOTOMETRY  
298
- INFRASTRUCTURE  
015, 029, 109
- INGREDIENTS  
225, 227
- INLAND WATER  
ENVIRONMENT  
017
- INNOVATION  
016, 0043, 047, 049,  
067, 068, 0091, 101,  
154, 217, 295
- INNOVATION  
ADOPTION  
025
- INPUT OUTPUT  
ANALYSIS  
120
- INSTANT COFFEE  
291
- INSTANT FOODS  
277
- INTEGRATED  
CONTROL  
107, 156, 176, 177, 186,  
188
- INTEGRATED PEST  
CONTROL  
134, 185
- INTEGRATED PEST  
MANAGEMENT  
176
- INTEGRATED PLANT  
PRODUCTION  
047, 053, 054, 062, 066
- INTEGRATION  
014, 060
- INTENSIFICATION  
064, 216
- INTENSIVE FARMING  
242
- INTERCROPPING  
149, 151, 153
- INTERNATIONAL  
TRADE  
042, 055, 082, 089
- INTERTIDAL  
ENVIRONMENT  
024, 044, 093, 171
- INTRODUCED  
VARIETIES  
149, 156, 157, 158, 166
- INVESTMENT  
010, 055, 071
- IPOMOEA BATATAS  
151, 242
- IRIAN JAYA  
018, 019, 020, 108, 123,  
127, 128, 152, 177, 227
- IRON  
267
- IRRIGATED LAND  
049, 061, 092, 108, 149,  
150, 152
- IRRIGATED RICE  
062, 063, 064, 141, 156,  
157, 161, 168, 184, 195
- IRRIGATED SOILS  
141
- IRRIGATION SYSTEMS  
130
- ISLANDS  
257
- J**
- JAPAN  
001
- JAVA  
002, 038, 045, 061, 062,  
065, 091, 107, 150, 162,  
164, 201, 216, 217, 257,  
258, 259, 261, 262, 265,  
269, 280, 0300
- K**
- KALIMANTAN  
026, 105, 124, 139, 153,  
204, 206, 232, 238, 249
- L**
- LABOUR  
041, 145
- LACTATION  
220
- LAKES  
017
- LAND CLEARING  
177
- LAND MANAGEMENT  
021, 066, 260
- LAND OWNERSHIP  
109
- LAND PRODUCTIVITY  
018, 019, 020, 024, 041,  
092, 148, 150, 151
- LAND RESOURCES  
018, 019, 020, 029, 032,  
0300
- LAND SUITABILITY  
022, 108, 204
- LAND USE  
018, 019, 020, 021, 026,  
152
- LATES CALCARIFER  
240
- LAYER CHICKENS  
225
- LEGISLATION  
203, 235
- LEGUMES  
267, 268, 269
- LICENCES  
031, 114
- LIMING  
265
- LIVESTOCK  
005, 047, 228, 230, 251
- LIVESTOCK  
MANAGEMENT  
005, 216
- LIVING STANDARDS  
023
- LOWLAND  
064, 117, 136, 138, 150
- M**
- MACROPHOMINA  
PHASEOLINA  
190
- MAIZE  
012, 015, 034, 042, 043,  
049, 059, 073, 084, 089,  
090, 109, 197, 225, 274
- MALAYSIA  
046, 175
- MALLOTUS  
(EUPHORBIACEAE)  
098
- MANGANESE  
267
- MANGIFERA INDICA  
113, 160, 165, 185
- MANGOES  
085
- MANGOSTEEN  
106
- MANGROVES  
202, 257
- MARANTA  
ARUNDINACEA  
272
- MARGINAL LAND

- 131, 260  
 MARKET INTELLIGENCE 237  
 MARKET PRICES 084  
 MARKET SEGMENTATION 089, 237  
 MARKETING 032, 046, 050, 051, 074, 079, 085, 086, 087, 095, 105, 116, 198, 240  
 MARKETING CHANNELS 084, 085, 101, 109, 225  
 MARKETING MARGINS 084  
 MARKETING POLICIES 013, 028, 084, 086  
 MARKETING TECHNIQUES 083, 237  
 MARKETS 009  
 MEAT CUTS 279  
 MEAT HYGIENE 199, 212  
 MEAT INSPECTION 199  
 MEAT PRODUCTS 279  
 MECHANIZATION 023, 063  
 MICROBIOLOGICAL ANALYSIS 199  
 MICROBIOLOGY 202  
 MICROORGANISMS 114, 202  
 MILK PERFORMANCE 221  
 MILK PRODUCTION 220, 221  
 MILLING 198, 250  
 MIXED FARMING 066  
 MODELS 216  
 MOISTURE CONTENT 180  
 MONITORING 213, 0300  
 MONKEYS 234  
 MORINDA CITRIFOLIA 173  
 MULCHES 092, 131  
 MULCHING 192  
 MULTIPLE CROPPING 149, 170, 268  
 MUTANTS 161  
 MYCORRHIZAE 266  
 MYZUS PERSICAE 186  
 N  
 NATIONAL PARKS 254, 256, 259  
 NATURAL ENEMIES 183  
 NATURAL RESOURCES 037  
 NATURE CONSERVATION 202, 234, 256, 257  
 NATURE RESERVES 232  
 NITRITES 270  
 NITROGEN 122  
 NITROGEN FERTILIZERS 122, 138, 193  
 NPK FERTILIZERS 109  
 NUSA TENGGARA 178  
 NUTRIENTS 267  
 NUTRITIONAL REQUIREMENTS 225, 243, 244  
 NUTRITIVE VALUE 225, 273, 286  
 O  
 OCHRATOXIN 083, 288  
 OIDIUM 185  
 OIL PALMS 052, 055, 251, 295  
 ON-FARM RESEARCH 045, 149  
 OPERATION RESEARCH 003  
 OREOCHROMIS NILOTICUS 242  
 ORGANIC AGRICULTURE 078, 082, 110  
 ORGANIC FERTILIZERS 041, 092, 123, 124, 125, 126, 128, 129, 133  
 ORGANIC FOODS 086  
 ORGANIC MATTER 138  
 ORGANIZATION OF RESEARCH 016  
 ORGANOLEPTIC PROPERTIES 170, 199, 272, 273, 274, 284  
 ORNAMENTAL FISHES 229, 232  
 ORNAMENTAL PLANT 079  
 ORYCTES RHINOCEROS 187  
 ORYZA SATIVA 054, 064, 069, 102, 105, 108, 112, 121, 127, 128, 133, 135, 139, 141, 154, 161, 184, 188, 193, 195, 238  
 P  
 PACKAGING 106, 271  
 PALM OILS 041, 0055, 292  
 PANDANUS 174  
 PANICUM MAXIMUM 126  
 PANICUM REPENS 194  
 PARASERIANTHES FALCATA 057  
 PARASITIDS 183  
 PARTICIPATIONS 037  
 PARTNERSHIPS 023, 025, 073  
 PASTEURIA 179  
 PASTEURIZED MILK 284  
 PATHOGENS 183  
 PEAT SOILS 026  
 PEATLANDS 022, 025, 124  
 PECTINOPHORA GOSSYPIELLA

- 182  
 PELLETS 239  
 PENICILLIUM 288  
 PENNISETUM PURPUREUM 153  
 PERSEA AMERICANA 096  
 PEST CONTROL 097, 178, 179, 182, 185  
 PEST INSECTS 182  
 PEST RESISTANCE 157, 160  
 PESTS OF PLANTS 095  
 PHARMACEUTICAL INDUSTRY 111, 293  
 PHILIPPINES 035  
 PHOSPHATE FERTILIZERS 122, 260  
 PHOSPHATES 125  
 PHOSPHORUS 122  
 PHYSICAL ACTIVITY 296  
 PHYTOPHTHORA CAPSICI 189  
 PHYTOPHTHORA INFESTANS 107  
 PHYTOPHTHORA PALMIVORA 187  
 PHYTOTOXICITY 267  
 PIGEONS 254  
 PILOT FARMS 045  
 PIMPINELLA 104  
 PIPER NIGRUM 179, 189  
 PIPER RETROFRACTUM 172  
 PLANNING 032  
 PLANT ANATOMY 175  
 PLANT BIO-TECHNOLOGY 167  
 PLANT BREEDING 169  
 PLANT DEVELOPMENTAL STAGES 264  
 PLANT DISEASES 095  
 PLANT INTRODUCTION 153  
 PLANT NURSERIES 100, 104, 187  
 PLANT NUTRITION 267  
 PLANT PROPAGATION 113  
 PLANT PROTECTION 187  
 PLANTATIONS 007, 014, 030, 031, 032, 041, 060, 072, 251, 266, 292  
 PLANTING DATE 123, 149  
 PLANTING EQUIPMENT 248, 249  
 PLANTS 110  
 PLASTICS 297  
 PLEUROTUS 095  
 POLIANTHES 164  
 POLLUTANTS 298  
 POPULATION DISTRIBUTION 236  
 POPULATION DYNAMICS 231  
 POPULATION GENETICS 246  
 PORTULACA OLERACEAE 194  
 PORTUNUS 245  
 POSTHARVEST TECHNOLOGY 012, 106, 109, 117, 197, 198, 200, 275, 285, 288  
 POTASH FERTILIZERS 122  
 POTASSIUM 122  
 POTASSIUM CHLORIDE 127  
 POVERTY 016, 066  
 PREDATORS 183  
 PRESERVATION 270, 275  
 PRICE POLICIES 010, 011, 059, 089  
 PRICE STABILIZATION 013, 089  
 PRICES 051, 072, 087, 225  
 PRIVATE ENTERPRISES 009  
 PROBIOTICS 066, 226  
 PROCESSED PLANT PRODUCTS 282, 283  
 PROCESSING 050, 075, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 285, 288, 289  
 PRODUCER PRICES 084, 089  
 PRODUCTION 008, 029, 034, 055, 084, 095, 097, 121, 126, 271  
 PRODUCTION DATA 028  
 PRODUCTION FACTORS 042  
 PRODUCTION INCREASE 015, 0041, 043, 068, 103, 150, 154, 221  
 PRODUCTION LOCATION 012  
 PRODUCTION POLICIES 013  
 PRODUCTION POSSIBILITIES 022, 0043  
 PRODUCTIVITY 010, 011, 023, 034, 040, 042, 043, 048, 053, 059, 061, 097, 112, 157, 227  
 PROFESSIONAL ASSOCIATIONS 003, 004  
 PROFITABILITY 040, 0059, 092, 123, 151, 152, 273  
 PROPIONATES 270  
 PROTECTIVE PLANTS 177  
 PROXIMATE

- COMPOSITION  
096, 222, 223, 227, 272,  
283, 285
- PRUNING  
113, 177
- PSEUDOMONAS  
SOLANACEARUM  
107, 186
- PUBLIC HEALTH  
081
- PUNTIUS  
232
- Q**
- QUALITY  
051, 067, 076, 085, 097,  
118, 119, 153, 169, 199,  
210, 220, 243, 244, 250,  
287, 288, 289
- QUALITY CONTROL  
101, 230
- QUALITY OF LIFE  
063, 070, 154
- QUARANTINE  
235
- R**
- RADOPHOLUS SIMILIS  
179
- RAINFED FARMING  
138
- RAMULARIA  
190
- RAPID RURAL  
APPRAISAL  
039, 047
- RASTROCOCCUS  
185
- RATIONS  
222, 223, 225, 226
- RAW MATERIALS  
125
- REARING TECHNIQUES  
241
- RECLAMATION  
132, 269
- RECREATIONAL AREAS  
259
- REFORESTATION  
201
- REFRIGERATION  
200
- REGIONAL  
DEVELOPMENT  
261, 262
- REGULATIONS  
110, 114, 208
- REMOTE SENSING  
298, 0300
- RESEARCH  
010, 044, 054, 065, 068,  
103, 114, 162, 205, 247,  
264, 293
- RESEARCH POLICIES  
047
- RESIDUES  
142, 184
- RESISTANCE TO  
CHEMICALS  
193
- RESISTANCE TO  
INJURIOUS FACTORS  
158
- RESOURCE CONSER-  
VATION  
111
- RESOURCE MANAGE-  
MENT  
054
- RICE  
010, 011, 013, 047, 118,  
198, 248, 250
- RICE FIELDS  
238
- RICE HUSKS  
128
- RICE POLISHING  
250
- RICE STRAW  
125, 128, 226
- RIDGING  
136
- RIVERS  
236
- ROLE OF WOMEN  
035, 045, 091
- ROSA  
166
- RUBBER  
052
- RUMINANTS  
217, 224, 292
- RURAL AREAS  
037, 145
- RURAL COMMUNITIES  
002, 078
- RURAL DEVELOPMENT  
016, 070
- S**
- SAFETY  
244
- SALACCA  
271
- SALACCA EDULIS  
285
- SAMPLING  
299
- SATELLITES  
026
- SEA BASS  
240
- SEASONS  
161
- SEED  
029, 051, 099, 100, 102,  
114, 116, 118, 119, 120,  
169, 180
- SEED CERTIFICATION  
064, 101, 116, 118, 204,  
207
- SEED INDUSTRY  
067, 101
- SEED PRODUCTION  
094, 101, 116, 117, 119,  
180
- SEED STORAGE  
197
- SEED TESTING  
101
- SEEDLINGS  
099, 107, 113, 203, 205,  
207
- SEEDS  
076, 099, 115
- SELECTION  
159, 160, 164, 166, 299
- SELECTION CRITERIA  
212
- SHELLING  
197
- SHOOTS  
113
- SILUROIDEI  
246
- SILVICULTURE  
SYSTEMS  
204
- SIMULATED FOODS  
272, 273, 275
- SITE FACTORS  
122
- SLAUGHTERING  
212
- SLOPING LAND  
263, 268
- SMALL ENTERPRISES  
048, 074, 075
- SMALL FARMS  
066
- SNACK FOODS  
274
- SNAKES  
233
- SOAKING  
291
- SOCIAL WELFARE  
011, 078, 202
- SOCIOCULTURAL  
ENVIRONMENT

- 080, 249  
SOCIOECONOMIC DEVELOPMENT  
044, 249  
SOCIOECONOMIC ENVIRONMENT  
036, 037, 140, 217, 256  
SOCIOECONOMIC ORGANIZATION  
009  
SOFT MAIZE  
274  
SOIL ANALYSIS  
127  
SOIL CHEMICO-PHYSICAL PROPERTIES  
038, 092, 124, 128, 260, 265  
SOIL COMPACTION  
269  
SOIL CONDITIONERS  
128  
SOIL CONSERVATION  
268  
SOIL DEFICIENCIES  
127, 267  
SOIL DETERIORATION  
269  
SOIL FERTILITY  
121, 122, 260, 266, 267  
SOIL MANAGEMENT  
131, 265, 266, 267  
SOIL ORGANIC MATTER  
265, 266  
SOIL PH  
269  
SOIL POLLUTION  
133, 138, 141, 269  
SOIL TYPES  
021  
SOLANUM TUBEROSUM  
092, 107, 186  
SOLIDS  
105  
SORGHUM BICOLOR  
180  
SOYBEANS  
276  
SOYFOODS  
276, 278  
SPACING  
149  
SPECIES  
209, 234, 245, 246, 253  
SPECTROMETRY  
298  
SPODOPTERA  
186  
SPODOPTERA LITURA  
182  
STAGES  
214  
STOCKING DENSITY  
238, 242, 243  
STORAGE  
289  
STOREHOUSES  
197  
STRIP CROPPING  
265  
STRIP GRAZING  
268  
SUBSIDIES  
013  
SUGAR  
048, 087  
SUGAR CANE  
048  
SULAWESI  
098, 122, 208, 215, 236  
SULPHUR DIOXIDE  
270  
SUMATRA  
050, 064, 189, 198, 233, 240, 253, 254, 255, 256, 264, 265, 267, 269, 0300  
SUPPLEMENTAL IRRIGATION  
130  
SUPPLEMENTS  
105, 220, 242  
SUPPLY  
034, 083  
SUPPLY BALANCE  
043, 055  
SURVEYS  
299, 300  
SURVIVAL  
243  
SUSTAINABILITY  
059, 066, 067, 074, 131, 252  
SWAMP SOILS  
044, 105, 171  
SWAMPS  
024, 093  
SWINE  
225, 227, 228  
SYLEPTA DEROGATA  
182  
SYRPHIDAE STAPHYLINIDAE  
183  
**T**  
TAPPING  
191  
TECHNICAL PROPERTIES  
215  
TECHNOLOGY  
039, 041, 047, 053, 070, 117, 130, 132, 140, 189, 240, 251, 252, 265, 269  
TECHNOLOGY TRANSFER  
016, 035, 036, 037, 040, 043, 045, 047, 049, 056, 063, 064, 065, 068, 073, 076, 091, 092, 101, 108, 113, 148, 149, 151, 152, 155, 156, 157, 162, 197, 217, 219, 220, 221, 222, 223, 260, 272, 273, 274, 275  
TECTONA GRANDIS  
006, 057, 100, 162, 167, 169, 201, 203, 204, 205, 206, 207, 208, 264  
TEMPERATURE  
284  
TENURE  
109  
TERRACE CROPPING  
268  
TESTA  
289  
THEOBROMA CACAO  
122, 177  
THERAPY  
296  
THRESHING  
198  
THRIPS PALMI  
186  
TIDES  
044, 105, 171, 198, 252  
TILLAGE  
104, 133, 135, 136, 138, 141, 158  
TISSUE CULTURE  
205  
TOPOGRAPHY  
021, 268  
TOPPING  
113  
TOXICITY  
193  
TRACE ELEMENTS  
260, 267  
TRADE AGREEMENTS  
072  
TRADE CYCLES  
042, 0059  
TRADE LIBERALIZATION  
203  
TRADE POLICIES

- 011, 088, 089  
 TRADITIONAL  
 MEDICINES  
 096, 173, 277  
 TRADITIONAL  
 TECHNOLOGY  
 012, 0091, 217, 290  
 TRAINING  
 056  
 TRAINING  
 PROGRAMMES  
 035  
 TRICHOGRAMMA  
 183  
 TRIDAX PROCUMBENS  
 194  
 TROPICAL FORESTS  
 209  
 TUNGRO DISEASE  
 188
- U**  
 UNCARIA GAMBIR  
 050  
 UNRESTRICTED  
 FEEDING  
 219, 227  
 UPLAND RICE  
 133, 158, 170, 193  
 UREA  
 135  
 USES  
 174, 259  
 UTILIZATION  
 079, 095, 111
- V**  
 VARIETIES  
 079, 097, 107, 115, 128,  
 164, 186, 188
- VARIETY TRIALS  
 101, 155, 161, 163  
 VECTORS  
 188  
 VEGETABLE CROPS  
 123, 269  
 VEGETATIVE  
 PROPAGATION  
 094, 100, 119, 162  
 VIGNA RADIATA  
 RADIATA  
 138  
 VITAMINS  
 286
- W**  
 WASTE MANAGEMENT  
 218, 294, 295, 297  
 WASTE UTILIZATION  
 295
- WASTES  
 228, 294, 297  
 WATER CIRCULATION  
 241  
 WATER  
 CONSERVATION  
 130, 266  
 WATER EROSION  
 268  
 WATER MANAGEMENT  
 063, 141  
 WATER QUALITY  
 241, 242  
 WATER RESOURCES  
 017, 258  
 WATER USE  
 130  
 WATERSHEDS  
 061  
 WEED CONTROL  
 194, 194, 195  
 WEIGHT GAIN  
 219, 223
- WET SEASON  
 155  
 WETLANDS  
 017  
 WILD ANIMALS  
 255  
 WOOD  
 210  
 WOOD PRESERVATION  
 210  
 WORK CAPACITY  
 247  
 WORK ORGANIZATION  
 006  
 WORLD MARKETS  
 083, 088
- X**  
 XANTHOMONAS  
 CAMPESTRIS  
 MALVACEARUM  
 190
- Y**  
 YIELD COMPONENTS  
 124, 127  
 YIELDS  
 141, 143, 153, 159, 160,  
 161, 170, 263  
 YOGHURT  
 284
- Z**  
 ZEA MAYS  
 049, 061, 101, 109, 124,  
 148, 151  
 ZERO TILLAGE  
 109, 131, 139, 195

## INDEKS JURNAL / JOURNAL INDEX

**A**

Agricultural Statistical  
Technology  
Improvement and  
Training Project:  
Newsletter  
299

Agro Ekonomi  
052

**B**

Buletin Media Quaranta  
235

Buletin Teknologi dan  
Informasi Pertanian  
117

**F**

Floribunda  
098, 175

**I**

InfoPom  
172, 270

**J**

Jurnal Ilmu-ilmu Hayati  
184

**M**

Manggala Wanabakti

079, 095, 111

Media Informasi Hutan dan  
Kehutanan  
234

Media Perkebunan  
004, 030, 031, 032, 048,  
072, 087, 191

Monograf BPTP  
Yogyakarta  
092, 113, 148, 149, 155,  
156, 157, 158, 219, 220,  
221, 222, 223, 272, 273,  
274, 275

**N**

Need : lingkungan  
manajemen ilmiah  
064, 093, 199, 202, 298

**W**

Warta Konservasi Lahan  
Basah  
017, 026, 173, 174, 209,  
231, 236, 253, 254, 255,  
256, 257, 258, 297

Warta Penelitian dan  
Pengembangan  
Tanaman Industri

007, 033, 046, 050, 051,  
053, 076, 081, 104, 116,  
119, 178, 179, 181, 187,  
189, 192, 287, 289, 296

Warta Penelitian Perikanan  
Indonesia

229, 239, 240, 245, 246

Warta Pusat Penelitian  
Kopi dan Kakao  
Indonesia

028, 057, 071, 075, 082,  
083, 086, 088, 110, 163,  
266, 288, 291

Wuny

129, 176, 210, 277, 278,  
279, 281, 286, 290

**Z**

Zoo Indonesia  
232, 233

Zuriat  
161