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**Kata Pengantar**

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

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

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

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

Bogor, 2003

Kepala Pusat Perpustakaan dan  
Penyebaran Teknologi Pertanian

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0001 LOEKITO, F.X. [Extension activity and dissemination of information]. Penyuluhan dan penyebaran informasi/Loekito, F.X.; Suyasa, I.N. Instalasi Penelitian, Pengkajian Teknologi Pertanian, Denpasar (Indonesia). Denpasar (Indonesia): IPPTP, 2000: 30 p.

DIFFUSION OF INFORMATION; EXTENSION ACTIVITIES; AGRICULTURAL SECTOR; TECHNOLOGICAL TRANSFER; INDONESIA.

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

0002 ABIDIN, I.S. [The role of information system on horticultural development]. Peran sistem informasi dalam pengembangan hortikultura/Abidin, I.S. (Yayasan Hortikultura Indonesia, Jakarta (Indonesia)). [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura: peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 6) p. 1-8

INDONESIA; HORTICULTURE; INFORMATION SYSTEMS; AGROINDUSTRIAL SECTOR; MARKETS.

**D10 PUBLIC ADMINISTRATION / ADMINISTRASI NEGARA**

0003 SUKARDI, H.E. [Policy of territory administration of public expedient in forest area]. Kebijakan pemerintah daerah dalam pemberdayaan masyarakat sekitar hutan/Sukardi, H.E. (Direktorat Produksi Hasil Hutan, Jakarta (Indonesia)). [Proceedings on the Seminar of Strategy and Empowering Communities Participation on Production Forestry System]. Prosiding Seminar Strategi dan Peningkatan Pemberdayaan Peran Serta Masyarakat dalam Kegiatan Pengusahaan Hutan Produksi/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.;

Suwandi; Rusmana, I. (eds.) Direktorat Jenderal Pengelolaan Hutan Produksi, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 64-81

FOREST SOILS; SOCIOECONOMIC DEVELOPMENT.

**D50 LEGISLATION / HUKUM DAN PERATURAN PERUNDANG-UNDANGAN**

0004 SUBROTO, M.A. [Patent and biotechnology]. Paten dan bioteknologi/Subroto, M.A.. Warta Biotek (Indonesia) ISSN 0215-2835 (2001) v. 15(1) p. 23-26

BIOTECHNOLOGY; PATENTS; GENETIC ENGINEERING; RESEARCH.

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

0005 DARUSMAN, D. [Concept and social forestry strategy in public economic increasing in forestry area]. Konsep dan strategi sosial forestry dalam peningkatan pemberdayaan ekonomi masyarakat desa di dalam dan sekitar hutan (Pokok-pokok pemikiran)/Darusman, D. (Direktorat Produksi Hasil Hutan, Jakarta (Indonesia)). [Proceedings on the Seminar of Strategy and Empowering Communities Participation on Production Forestry System]. Prosiding Seminar Strategi dan Peningkatan Pemberdayaan Peran Serta Masyarakat dalam Kegiatan Pengusahaan Hutan Produksi/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Jenderal Pengelolaan Hutan Produksi, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 82-88

FOREST SOILS; SOCIOECONOMIC DEVELOPMENT; HUMAN RESOURCES; PRODUCTION INCREASE.

0006 DIWYANTO, K. [Availability and technology needs of animal husbandry and veterinary technology to support national food sustainability]. Ketersediaan dan kebutuhan

teknologi peternakan dan veteriner dalam upaya meningkatkan ketahanan pangan/Diwyanto, K.; Bahri, S.; Masbulan, E. (Pusat Penelitian Peternakan, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 51-64 9 ref.

POULTRY; FOOD SECURITY; RUMINANTS; ANIMAL HUSBANDRY; VETERINARY HYGIENE; APPROPRIATE TECHNOLOGY; FEEDS; AGRO-INDUSTRIAL SECTOR; BREEDS (ANIMAL).

0007 GOENADI, D.H. [Strategy of national science and technology development on supporting national food sustainability programs]. Kebijakan strategis pembangunan ipteknas dalam menunjang program ketahanan pangan/Goenadi, D.H. (Kantor Menteri Riset dan Teknologi, Jakarta (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 48-50

FOOD SECURITY; TECHNOLOGY; DEVELOPMENT POLICIES; RESEARCH.

0008 MANUMONO, D. [Utilization of EVA or NTE methods to evaluate performance of agricultural enterprises]. Penggunaan metode EVA atau NTE untuk menilai kinerja perusahaan pertanian/Manumono, D. (Institut Pertanian Stiper, Yogyakarta (Indonesia). Fakultas Pertanian). [Compilation papers presented on the fourth monthly seminar of STIPER Agricultural Institute]. Kumpulan makalah seminar bulanan IV/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): Institut Pertanian Stiper, 1999 (pt. 2) p. 1-8 3 tables

ENTERPRISES; ECONOMIC INDICATORS; ECONOMIC VALUE.

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

0009 DARWIS, M. [Land and climate suitability on plantation crop development]. Kesesuaian lahan dan iklim dalam pengembangan komoditi perkebunan/Darwis, M. (Pusat Penelitian dan Pengembangan Tanaman Perkebunan, Bogor (Indonesia)). Sylvatropika (Indonesia) ISSN 1411-2604 (2000) (No. 23) p. 13-16

INDUSTRIAL CROPS; PLANTATIONS; LAND SUITABILITY; CLIMATE.

0010 JAYANTO, G. [Reading method of detail and semi detail land suitability map]. Cara membaca peta kesesuaian lahan pada tingkat tinjau dan semi detail/Jayanto, G.; Syahrudin K., A.; Sutrisno, U. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 3-7 3 tables; 7 ref.

LAND SUITABILITY; CARTOGRAPHY; LAND CLASSIFICATION; LAND MANAGEMENT.

0011 KUMURUR, V.A. [Terrestrial space utilization surrounding lake Moat, Bolaang Mongondow, North Sulawesi, period of 1987-1998 (Indonesia)]. Kondisi pemanfaatan ruang daratan di kawasan sekitar Danau Moat, Kabupaten Bolaang Mongondow, Sulawesi Utara: periode tahun 1987-1998/Kumurur, V.A. Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam (2001) v. 1(1) p. 7-13 2 ill., 2 tables; 13 ref. Summary (En)

SULAWESI; LAKES; EUTROPHICATION; LAND USE; PROTECTED FORESTS; MULTIPLE USE; CULTIVATED LAND.

0012 PRABOWO, A. Preparation of land suitability map for sorghum in Demak, Central Java [Indonesia]. Pembuatan peta kesesuaian wilayah untuk sorgum di Kabupaten Demak/Prabowo, A.; Sarasutha, I G.P.; Ramli, M.; Zubachtirodin (Balai Penelitian Tanaman Jagung dan Serealia Lainnya, Maros



(Indonesia)). Hasil Penelitian Pascapanen dan Mekanisasi (Indonesia) (1997) v. 16 p. 22-35 3 ill., 10 tables; 19 ref. Summary (En)

SORGHUM BICOLOR; LAND SUITABILITY; CARTOGRAPHY; ECONOMIC ANALYSIS; JAVA.

0013 SITORUS, S.R.P. Study on land size allocation and farm model on transmigration areas. Studi alokasi luasan lahan dan model kegiatan usahatani di daerah transmigrasi/Sitorus, S.R.P. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Pribadi, D.O. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 187-208 8 ill., 16 tables; 17 ref. Summary (En)

FOOD CROPS; LAND USE; FARMS; MODELS; ECONOMIC ANALYSIS.

### **E13 INVESTMENT, FINANCE AND CREDIT / INVESTASI, KEUANGAN DAN KREDIT**

0014 PRAPTOSUHARDJO, P. [Funding and credit package system for horticultural agroindustry]. Sistem pembiayaan dan paket kredit untuk agroindustri hortikultura/Praptosuhardjo, P. (Bank Rakyat Indonesia, Jakarta (Indonesia)). [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura: peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 9) p. 1-9

INDONESIA; HORTICULTURE; AGRO-INDUSTRIAL SECTOR; CREDIT; FINANCING.

### **E14 DEVELOPMENT ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN PEMBANGUNAN**

0015 BUDIANTO, J. [Agricultural research and development policies in supporting autonomous governance]. Kebijakan penelitian dan pengembangan pertanian dalam

mendukung otonomi daerah/Budianto, J. (Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia)). [Proceedings of National Seminar on the Results of Assessment and Research of Agricultural Technology Towards Autonomous Governance Era]. Prosiding Seminar Nasional Hasil Pengkajian dan Penelitian Teknologi Pertanian Menghadapi Era Otonomi Daerah/Limbongan, J.; Slamet, M.; Hasni, H.; Sudana, W. (eds.) Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 1-16

INDONESIA; RESEARCH; LOCAL GOVERNMENT; AGRICULTURAL DEVELOPMENT; FOOD SECURITY; RESEARCH INSTITUTIONS; DEVELOPMENT POLICIES.

0016 JAMARAN, I. [Strategy of technology development for horticulture]. Strategi pengembangan teknologi untuk hortikultura/Jamaran, I. (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)). [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura; peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 1) p. 1-14 2 tables

INDONESIA; HORTICULTURE; TECHNOLOGICAL CHANGES; SEEDLINGS; POSTHARVEST TECHNOLOGY; MARKETS; AGROINDUSTRIAL SECTOR; PROCESSING; INSTITUTIONS.

0017 KAMARSYAH, H.R. [Development planning based on local society oriented]. Perencanaan pembangunan berorientasi pada masyarakat lokal/Kamarsyah, H.R. (Direktorat Jenderal Pembangunan Daerah, Jakarta (Indonesia)). [Proceedings of National Seminar on the Results of Assessment and Research of Agricultural Technology Towards Autonomous Governance Era]. Prosiding Seminar Nasional Hasil Pengkajian dan Penelitian Teknologi Pertanian Menghadapi Era Otonomi Daerah/Limbongan, J.; Slamet, M.; Hasni, H.; Sudana, W. Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 22-26

INDONESIA; AGRICULTURAL DEVELOPMENT; LOCAL GOVERNMENT; LAW; PLANNING.

0018 MAWARDI, I. [Institutional in the application and the development of agricultural technology in era of autonomous governance]. Kelembagaan dalam penerapan dan pengembangan teknologi pertanian di era otonomi daerah/Mawardi, I. (Biro Bantuan dan Pengembangan Regional II Bappenas, Jakarta (Indonesia)). [Proceedings of National Seminar on the Results of Assessment and Research of Agricultural Technology Towards Autonomous Governance Era]. Prosiding Seminar Nasional Hasil Pengkajian dan Penelitian Teknologi Pertanian Menghadapi Era Otonomi Daerah/Limbongan, J.; Slamet, M.; Hasni, H.; Sudana, W. Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor (Indonesia): PSE, 1999 p. 17-21

INDONESIA; AGRICULTURAL DEVELOPMENT; TECHNOLOGY; RESEARCH INSTITUTIONS; LOCAL GOVERNMENT.

0019 POERNOMO, D.H. [Social forest development in territory autonomy perspective]. Pengembangan hutan kemasyarakatan dalam perspektif otonomi daerah/Poernomo, D.H. (Institut Pertanian Stiper, Yogyakarta (Indonesia). Fakultas Kehutanan). [Papers compilation on twelfth monthly seminar of Instiper Yogyakarta (Indonesia)]. Kumpulan makalah seminar bulanan 12/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): INSTIPER, 2000 (pt. 2) 4 p. 7 ref.

SOCIAL FORESTRY; FORESTRY DEVELOPMENT; SOCIAL PARTICIPATION.

0020 PRAWIRAATMADJA, R. [Policy of forest public development in rural economic]. Pengembangan kebijakan Pembinaan Masyarakat Desa Hutan (PMDH) dalam rangka pemberdayaan ekonomi rakyat/Prawiraatmadja, R. (Direktorat Produksi Hasil Hutan, Jakarta (Indonesia)). [Proceedings on the Seminar of Strategy and Empowering Communities Participation on Production Forestry System]. Prosiding Seminar Strategi dan Peningkatan Pemberdayaan Peran Serta Masyarakat dalam Kegiatan Pengusahaan Hutan Produksi/

Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Jenderal Pengelolaan Hutan Produksi, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 4-14

AGRICULTURAL ECONOMICS; FOREST MANAGEMENT; ECONOMIC SECTOR; NATIONAL INCOME; SOCIOECONOMIC DEVELOPMENT.

0021 SULAEFI. [Science and technology development and sustainability agricultural development]. Perkembangan IPTEK dan pembangunan pertanian berkelanjutan/Sulaefi Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 20 p. 9 ref.

AGRICULTURAL DEVELOPMENT; SUSTAINABILITY; HUMAN RESOURCES; DIVERSIFICATION; AGROINDUSTRIAL SECTOR; BIOTECHNOLOGY.

0022 SULAEFI. [Interaction effect between land preparation mechanization with other production factors for rice productivity in West Java (Indonesia)]. Pengaruh interaksi antara mekanisasi pengolahan lahan dengan faktor produksi lainnya terhadap produktivitas padi di Jawa Barat/Sulaefi (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)). Majalah BPPT (Indonesia) ISSN 0216-6569 (1997) (no. 78) p. 1-6 2 tables; 10 ref. Summary (En)

TRACTORS; MECHANIZATION; RICE; PRODUCTIVITY; PRODUCTION FACTORS; JAVA.

## E16 PRODUCTION ECONOMICS / EKONOMI PRODUKSI

0023 PRAYITNO, S. [Illustration of condition and potential of agriculture in Ciamis Regency, West Java Province (Indonesia)]. Gambaran kondisi dan potensi pertanian Kabupaten Daerah Tingkat 2 Ciamis, Propinsi Jawa Barat/Prayitno, S. Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1997 9 p. 6 tables

FOOD CROPS; FRUIT CROPS; VEGETABLE CROPS; PRODUCTION; WEST JAVA.

0024 ROKHMAN. [Efforts on increasing productivity of sheeps]. Usaha-usaha peningkatan produktivitas ternak domba/Rokhman; Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 25-27 4 ref.

SHEEP; PRODUCTION INCREASE; GENETICS; ANIMAL ECOLOGY.

0025 SULAEFI. [Research of superior agricultural commodities in Bali (Indonesia)]. Penelitian komoditas pertanian unggulan daerah di wilayah Bali/Sulaefi Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 13 p. 5 ref.

CITRUS; CATTLE; SWINE; CARP; AGRICULTURAL PRODUCTS; INSTITUTIONS; BALI.

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

0026 ABDURACHMAN, A. [Utilization of ex PLG swamp land in Central Kalimantan (Indonesia) for agricultural development which related to environmental insight]. Pemanfaatan lahan rawa eks PLG Kalimantan Tengah untuk pengembangan pertanian berwawasan lingkungan/Abdurachman, A.; Suriadikarta, D.A. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2000) v. 19(3) p. 77-81 1 table; 13 ref. Summaries (En, In)

CENTRAL KALIMANTAN; PEAT SOILS; SWAMP LAND; LAND USE; ENVIRONMENT; AGRICULTURAL DEVELOPMENT.

0027 ADIYOGA, W. Urban and peri-urban vegetable production system in Kotamadya and Kabupaten Bandung. Sistem produksi sayuran urban dan peri-urban di Kotamadya dan Kabupaten Bandung/Adiyoga, W.; Ameriana, M.; Suherman, R.; Soetiarso, T.A.; Udiarto, B.K.; Sulastrini, I. (Balai Penelitian Tanaman Sayuran, Lembang, Bandung (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (2000) v. 9(4) p. 331-352 19 tables; 11 ref. Summaries (En, In)

VEGETABLE CROPS; ALTERNATIVE AGRICULTURE; INTERCROPPING; ECONOMIC ANALYSIS; SOCIOECONOMIC DEVELOPMENT; CROPPING PATTERN; URBAN AREAS; JAVA.

0028 AR-RIZA, I. Prospects of monotonous swamp development in South Kalimantan to support increasing rice production. Prospek pengembangan lahan rawa lebak Kalimantan Selatan dalam mendukung peningkatan produksi padi/Ar-Riza, I. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2000) v. 19(3) p. 92-97 2 ill., 2 tables; 20 ref. Summaries (En, In)

RICE; PRODUCTION INCREASE; SWAMP LAND; DEVELOPMENT POLICIES; APPROPRIATE TECHNOLOGY; SOUTH KALIMANTAN.

0029 ASNAWI, Z. [Assessment of emping melinjo industry in Dul Village, Pangkalan Baru, Bangka (Indonesia)]. Kajian usaha emping melinjo di Desa Kampung Dul, Kecamatan Pangkalan Baru, Kabupaten Bangka/Asnawi, Z. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Petaling, Bangka (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(1) p. 9-11 1 ill., 2 tables

GNETUM GNEMON; CULTIVATION; ECONOMIC ANALYSIS; COSTS.

0030 GUNARTO, A. [Land diversion of rice fields to non agricultural function caused by tourism development in Bali (Indonesia)]. Alih fungsi lahan sawah ke non pertanian sebagai akibat perkembangan pariwisata di Propinsi

Bali/Gunarto, A. Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1997 22 p. 13 tables; 16 ref.

RICE FIELDS; TOURISM; DOMESTIC PRODUCTION; LAND USE; LAND DIVERSION; RECREATIONAL AREAS; BALI.

0031 MATHIUS, I W. Sheep-goat development strategies: based on feedstuff availability and supply. Strategi usaha pengembangan domba-kambing: ditinjau dari aspek ketersediaan dan pengadaan pakan/Mathius, I W. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2000) v. 19(3) p. 98-105 3 ref. Summaries (En, In)

SHEEP; GOATS; FEEDS; DEVELOPMENT POLICIES; FATTENING; RURAL AREAS; INDONESIA.

0032 PRAYITNO, S. [Illustration of Mamberamo Hilir Subdistrict for agricultural development in Mamberamo river basin, Irian Jaya (Indonesia)]. Gambaran fisik Kecamatan Mamberamo Hilir bagi pengembangan pertanian di daerah aliran sungai Mamberamo Irian Jaya/Prayitno, S. Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1996 6 p.

IRIAN JAYA; AGRICULTURAL DEVELOPMENT; AGRICULTURAL RESOURCES; TOPOGRAPHY; CLIMATE; WATER-SHEDS.

0033 SAMBU GROUP. [Private experience in managing pineapple horticultural product]. Pengalaman swasta dalam mengelola usaha produk hortikultura buah nenas/Sambu group. [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura: peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 8) p. 1-8

ANANAS COMOSUS; INTERCROPPING; COCOS NUCIFERA; FARM INCOME; CULTIVATION; PROCESSING; TRANSPORT; MARKETS.

0034 SIMATUPANG, P. Indonesia's agricultural sector during the turbulence of the economic crisis: some lessons. Sektor pertanian Indonesia selama krisis ekonomi: beberapa pelajaran/Simatupang, P.; Pasaribu, S.; Bahri, S. (Pusat Penelitian Sosial Ekonomi Pertanian, Bogor (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2000) v. 19(3) p. 82-91 1 ill., 2 tables; 22 ref. Summaries (En, In)

INDONESIA; AGRICULTURAL SECTOR; ECONOMIC CRISES; SOCIAL WELFARE; DEVELOPMENT POLICIES.

0035 SUKAWA, A. [Farming system and marketing of chillies in Lampung]. Usahatani dan pemasaran cabai merah di Lampung/Sukawa, A.; Makmuri, H. (Loka Penelitian Teknologi Pertanian Natar, Lampung (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 12-14 1 ill., 6 ref.

CHILLIES; MARKETING; FARMING SYSTEMS; PRODUCTIVITY; PRODUCTION COSTS.

0036 SURIADIKARTA, D.A. [Development research of integrated farming system on intertidal swamp land in (PLG) Peat Soil Development area]. Penelitian pengembangan sistem usahatani terpadu lahan rawa pasang surut di kawasan PLG sejuta hektar/Suriadikarta, D.A.; Suwarno; Supriadi, H.; Januwati (Pusat Penelitian Tanah dan Agroklimat Bogor (Indonesia)). [Proceedings of the National Workshop on Research Results and Agricultural Technology Assessment]. Prosiding Lokakarya Nasional Hasil Penelitian dan Pengkajian Teknologi Pertanian/Balai Pengkajian Teknologi Pertanian, Palangkaraya (Indonesia). Palangkaraya (Indonesia): BPTP, 1999 p. 237-249 4 tables; 8 ref.

KALIMANTAN; FARMING SYSTEMS; AGRICULTURAL DEVELOPMENT; TECHNOLOGY TRANSFER; COST

ANALYSIS; INTERTIDAL ENVIRONMENT;  
PEAT SOILS.

0037 YUSIANTO. [Impact of Coffea and *Theobroma cacao* plantation to support development with environment oriented]. Dampak kegiatan perkebunan kopi dan kakao yang harus diperhatikan untuk mendukung pengembangan berwawasan lingkungan/ Yusianto. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15 (3) p. 293-305 12 ref.

COFFEA; THEOBROMA CACAO;  
PLANTATIONS; ENVIRONMENTAL  
IMPACT; ECOLOGY.

## E21 AGROINDUSTRY / AGROINDUSTRI

0038 AMINAH, S. [Role of sheep market in Wanaraja, Garut]. Peranan pasar hewan domba di Wanaraja, Kabupaten Garut/Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 30-31 1 table; 4 ref.

SHEEP; MARKET RESEARCH;  
MARKETING; AGROINDUSTRIAL  
SECTOR; ANIMAL PRODUCTION; FARM;  
ABATTOIRS; JAVA.

0039 BUADI. [Potential of kapok (*Ceiba pentandra*) on agroindustrial development in rural areas]. Potensi kapok dalam pengembangan agroindustri di pedesaan/Buadi; Sahid, M. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 9-11 1 ill., 2 tables

KAPOK; AGROINDUSTRIAL SECTOR;  
RURAL AREAS.

0040 DARWIS, A.A. [Utilization of advanced biotechnology to accelerate agroindustrial sector development in Indonesia]. Pemanfaatan bioteknologi maju untuk memacu perkembangan agroindustri di Indonesia/Darwis, A.A. (Institut Pertanian Bogor (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry;

Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 8) 9 p. 10 ref.

BIOTECHNOLOGY; AGRICULTURAL  
DEVELOPMENT; AGROINDUSTRIAL  
SECTOR; BIOENGINEERING; TECH-  
NOLOGY TRANSFER; INDONESIA.

0041 FARTATI, R.S. [Opportunity of kenaf (*Hibiscus cannabinus* L.) utilization as car interior raw material in Indonesia]. Peluang pemanfaatan kenaf (*Hibiscus cannabinus* L.) sebagai bahan baku interior mobil di Indonesia/Fartati, R.S.; Sudjindro; Sastrosupadi, A. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(2) p. 5-9

KENAF; USES; RAW MATERIALS;  
QUALITY; COSTS; TRANSPORT.

0042 HEDIYONO. [Supporting agroindustrial development through establishing cooperative enterprises in rural areas]. Dukungan pengembangan agroindustri melalui pemantapan usaha koperasi unit desa/Hediyono (Direktorat Jenderal Pembinaan Koperasi Pedesaan, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 2) 14 p.

AGRICULTURAL DEVELOPMENT; AGRO-  
INDUSTRIAL SECTOR; COOPERATIVE  
ACTIVITIES; RURAL AREAS.

0043 HERMAN, A.S. [Agroindustry and implementation of intellectual property right]. Agroindustri dan penerapan hak atas kekayaan

intelektual/Herman, A.S. (Badan Pengembangan Industri Kecil, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 14) 8 p.

AGRICULTURAL DEVELOPMENT; AGRO-INDUSTRIAL SECTOR; RESEARCH; SCIENTISTS; LEGAL RIGHTS.

0044 HUSODO, S.Y. [Effort of Indonesian farmers association (HKTI) to support national food sustainability and animal agribusiness]. Upaya HKTI dalam mendukung program ketahanan pangan nasional dan agribisnis peternakan/Husodo, S.Y. (Himpunan Kerukunan Tani Indonesia). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLIT-BANGNAK, 2000 p. 3-16 5 tables

FOOD SECURITY; AGROINDUSTRIAL SECTOR; ANIMAL HUSBANDRY; FOOD CONSUMPTION; FOOD SUPPLY; TRADE.

0045 KASRYNO, F. [Innovation of agricultural technology for increasing agroindustrial productivity and development in rural areas]. Inovasi teknologi pertanian sebagai upaya peningkatan produktivitas dan pertumbuhan agroindustri pedesaan/Kasryno, F. (Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia)); Simatupang, P. [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 1) 42 p. 5 ill., 6 tables. Bibliographies p. 38-41. Appendix

AGRICULTURAL DEVELOPMENT; AGRO-INDUSTRIAL SECTOR; INNOVATION; PRODUCTIVITY; TECHNOLOGY TRANSFER; LABOUR; RURAL AREAS.

0046 KERONG, C.I. [Condition and prospect of knowledge advanced for developing of agroindustrial products]. Keadaan dan prospek perkembangan IPTEK dalam rangka pengembangan produk agroindustri/Kerong, C.I. (Bisnis Indonesia, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 13) 9 p.

AGROINDUSTRIAL SECTOR; AGRICULTURAL PRODUCTS; RAW MATERIALS; TECHNOLOGY TRANSFER.

0047 NYUWAN SB. [Nambangan citrus from Madiun (East Java)]. Jeruk Nambangan asal Madiun top di Magetan/Nyuwan SB. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 57

JAVA; CITRUS; GRANDIS; ECONOMIC DEVELOPMENT.

0048 PRASETYO, T. [Assessment of groundnut agribusiness in dry land]. Pengkajian sistem usaha pertanian (SUP) kacang tanah di lahan kering/Prasetyo, T.; Setyani, C.; Jauhari, S.; Sarjana; Anwar, H.; Sumardjo; Hartono Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 2000 66 p. 7 ill., 11 tables; 15 ref.

ARACHIS HYPOGAEA; AGROINDUSTRIAL SECTOR; FARM INPUTS; SEED PRODUCTION; PRODUCTION FACTORS; PRODUCTION INCREASE; DISEASE CONTROL; POSTHARVEST TECHNOLOGY; MARKETING; TECHNOLOGY TRANSFER; DRY FARMING.

0049 ROMLI, M. [Center for the Development of Safe Agroindustrial Processes (CDSAP): its role on developing of technology and human resources toward future agroindustrial era]. CDSAP: peran dalam pengembangan teknologi dan sumberdaya manusia menyongsong agroindustri masa depan/Romli, M. (Institut Pertanian Bogor (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 7) 8 p.

AGROINDUSTRIAL SECTOR; APPROPRIATE TECHNOLOGY; HUMAN RESOURCES; ENVIRONMENTAL CONTROL; EDUCATIONAL INSTITUTIONS; EXTENSION ACTIVITIES.

0050 SABRANI, M. [Animal husbandry development with agribusiness oriented]. Pengembangan peternakan berorientasi agribisnis/Sabrani, M. (Balai Penelitian Ternak Bogor (Indonesia)). [Proceedings of the National Workshop on Research Results and Agricultural Technology Assessment]. Prosiding Lokakarya Nasional Hasil Penelitian dan Pengkajian Teknologi Pertanian/Balai Pengkajian Teknologi Pertanian, Palangkaraya (Indonesia). Palangkaraya (Indonesia): BPTP, 1999 p. 173-179 2 ill., 4 tables; 7 ref.

BEEF CATTLE; ANIMAL HUSBANDRY; AGROINDUSTRIAL SECTOR; FARM INCOME.

0051 SUJATA. [Human resources development for increasing the effectivity of rural agroindustry]. Pengembangan sumber daya manusia dalam rangka peningkatan kinerja agroindustri pedesaan/Sujata (Direktorat Jenderal Industri Hasil Pertanian dan Kehutanan, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses

Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 9) 14 p.

RURAL DEVELOPMENT; AGROINDUSTRIAL SECTOR; HUMAN RESOURCES; JOB PERFORMANCE; RURAL AREAS.

0052 SUPRAPTO, A. [The future of agro-industrial sector]. Agroindustri masa depan/Suprpto, A. (Badan Agribisnis, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 5) 18 p.

AGROINDUSTRIAL SECTOR; AGRICULTURAL DEVELOPMENT; RURAL DEVELOPMENT; ECONOMIC COMPETITION; SMALL ENTERPRISES; RURAL AREAS.

0053 TAMIN, H.F. [Role of local government on agroindustrial development in rural areas]. Peranan pemerintah daerah dalam pengembangan agroindustri pedesaan/Tamin, H.F. (Direktorat Jenderal Pembangunan Daerah, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 11) 20 p.

AGROINDUSTRIAL SECTOR; RURAL DEVELOPMENT; LOCAL GOVERNMENT; SMALL ENTERPRISES; PARTNERSHIPS; RURAL AREAS.

0054 TONDOK, A.R. [Condition and effectivity of plantations agroindustrial

correlation between input and output materials]. Kondisi dan kinerja keterkaitan agroindustri perkebunan: hulu dan hilir/Tondok, A.R. (Direktorat Jenderal Perkebunan, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 3) 15 p. 6 tables. Appendices

PLANTATIONS; AGROINDUSTRIAL SECTOR; PLANT PRODUCTS; RAW MATERIALS; EXPORTS; IMPORTS.

0055 WAHID, P. [Opportunity of *Aloe vera* development]. Peluang pengembangan lidah buaya (*Aloe vera*)/Wahid, P. (Pusat Penelitian dan Pengembangan Perkebunan, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 6-9 1 ill.

ALOE VERA; AGROINDUSTRIAL SECTOR; DEVELOPMENT POLICIES; MARKETS; USES.

0056 WAHYUDI, I. [Agroindustrial development of plantation crops sub sector on increasing added value throughout partnership pattern]. Pengembangan agro industri sub sektor perkebunan dalam upaya meningkatkan nilai tambah melalui pola kemitraan/Wahyudi, I. (Perkebunan Nusantara VIII, PT, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 4) 19 p.

PLANTATIONS; AGROINDUSTRIAL SECTOR; AGRICULTURAL SITUATION; SOCIOECONOMIC DEVELOPMENT; PARTNERSHIPS; VALUE ADDED.

0057 YANI, A.A. [Successfully of agro-industrial management]. Pengelolaan agro-industri yang sukses/Yani, A.A. (Sarana Yogya Ventura, PT., Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 10) 7 p.

AGROINDUSTRIAL SECTOR; MANAGEMENT; SOCIOECONOMIC DEVELOPMENT; PARTNERSHIPS.

0058 YULIANI, S. [Opportunity of *Sauropus androgynus* development]. Peluang pengembangan usahatani katuk (*Sauropus androgynus*)/Yuliani, S.; Hasanah, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(1) p. 1-3

SAUROPUS; PLANTING; FERTILIZER APPLICATION; YIELDS; PROCESSING.

#### E40 COOPERATIVES / KOPERASI

0059 SOENTORO. ["Karya usaha mandiri wanita tani" rural financial service institute in South Sumatra tidal swamp area]. Karya usaha mandiri wanita tani lembaga pelayanan jasa keuangan pedesaan di lahan pasang surut/Soentoro; Hermanto; Budianti, T.; Raharjo, B. Badan Penelitian dan Pengembangan Pertanian (Indonesia). Jakarta (Indonesia): Badan Litbang Pertanian, 2000: 51 p. 10 tables; 18 ref.

WOMEN; RURAL AREAS; AGRICULTURAL ECONOMICS; FINANCING; AGRICULTURAL BANKS; SUMATRA.

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

0060 ANON. [Marketing of frog thigh]. Pemasaran paha kodok/Anon.. Buletin Informasi Pasar (Indonesia) (2000) (Jan) p. 2-3 1 table



FROGS; MARKETS; SEAFOODS; MEAT; SWIKE; FROG CULTURE; EXPORTS; FRANCE; NETHERLANDS; USA; SINGAPORE; MALAYSIA.

0061 ANON. [Prospect of vegetable marketing to Hongkong]. Prospek pemasaran sayuran ke Hongkong/Anon.. Buletin Informasi Pasar (Indonesia) (2000) (Jan) p. 7-12 4 ill., 1 table.

VEGETABLES; MARKETING; EXPORTS; HONGKONG; TAIWAN; AUSTRALIA; CHINA; NEW ZEALAND; JAPAN; USA.

#### **E71 INTERNATIONAL TRADE / PER-DAGANGAN INTERNASIONAL**

0062 SUPRAPTO, A. [Prospect of horticulture agroindustry for obtaining devisa]. Prospek agroindustri hortikultura untuk perolehan devisa/Suprpto, A. [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura: peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 3) p. 1-35 1 table. Appendices

FRUIT; VEGETABLES; AGROINDUSTRIAL SECTOR; TRADE; MARKETS; EXPORTS; IMPORTS.

0063 TIRTAWINATA, M.R. [Development of mango varieties]. Jurusan kuasai mangga/Tirtawinata, M.R.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 62-63

MANGOES; VARIETIES; ECONOMIC DEVELOPMENT; GERMPLASM.

#### **F01 CROP HUSBANDRY / PERTANAMAN**

0064 ADIYUWONO, N.S. [Maintaining baglog in mushroom cultivation]. Seri jamur (19): Memelihara baglog/Adiyuwono, N.S.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 80-81.

EDIBLE FUNGI; INOCULATION; GROWING MEDIA; BUDDING; HARVESTING DATE; GROWTH PERIOD.

0065 ANANTO, E.E. [Improvement of harvesting and postharvest handling in tidal swamp land in South Sumatra (Indonesia)]. Perbaikan penanganan panen dan pascapanen di lahan pasang surut Sumatera Selatan/Ananto, E.E.; Astanto; Sutrisno; Suwangsa; Soentoro Badan Penelitian dan Pengembangan Pertanian (Indonesia). Jakarta (Indonesia): Badan Litbang Pertanian, 2000 39 p. 10 ill., 21 tables; 13 ref.

ORYZA SATIVA; RICE; HARVESTING; THRESHING; DRYING; EQUIPMENT; MACHINERY; FARM EQUIPMENT; MILLING; SUMATRA.

0066 ANGKASA, S. [Pigeon orchid (*Dendrobium crumenatum*)]. Nikmati semerbaknya anggrek merpati/Angkasa, S.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 98

DENDROBIUM; ORNAMENTAL PLANTS; FLOWERING.

0067 ANON. [Export quality of melon]. Melon kualitas ekspor/Anon.. Buletin Informasi Pasar (Indonesia) (2000) (Jan) p. 19-20

MELONS; QUALITY; EXPORTS; MARKETS; SINGAPORE.

0068 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN. NAIBONAT. [Cultivation of irrigated rice using Legowo (removing the seventh, and the multiplication of seven row, and inserted the plants into the edge rows) system, and the use of direct sowing equipment]. Budidaya padi sawah cara legowo dan atabela/Balai Pengkajian Teknologi Pertanian Naibonat (Indonesia). Kupang (Indonesia): BPTP Naibonat, 2000 24 p. 7 ill., 1 table

ORYZA SATIVA; FLOODED RICE; DIRECT SOWING; CULTIVATION; VARIETIES.

0069 DARMAWAN, D.A. Dynamics of vegetable production, distribution and

consumption in Asia: Indonesia/Darmawan, D.A.; Pasandaran, E.. Dynamics of vegetable production, distribution and consumption in Asia Ali, M. (ed.) Asian Vegetable Research and Development Center, Shanhua (Taiwan). Shanhua (Taiwan): AVRDC, 2000 p. 139-171 5 ill., 26 tables. Bibl. p. 168-171

VEGETABLE CROPS; VARIETIES; CULTIVATION; CROPPING SYSTEMS; PLANT PRODUCTION; GEOGRAPHICAL DISTRIBUTION; ECONOMIC ANALYSIS; CONSUMPTION; PRICES; INDONESIA.

0070 DURYATMO, S. [Black pepper at bumi Rawa Jurai (Lampung)]. Mengembalikan citra lada di bumi Rawa Jurai/Duryatmo, S.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 37-38

PEPPER; PRODUCTIVITY; EXPORTS; FARM INCOME.

0071 DURYATMO, S. [Dendrobium: a cut orchid]. Dendrobium potong yang berbahagia, dan yang berduka/Duryatmo, S.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 95-96 3 ill.

DENDROBIUM; CUT FLOWERS; AGRO-INDUSTRIAL SECTOR.

0072 NOVARIANTO, H. [High yielding coconut crops]. Kelapa unggul/Novarianto, H.; Tenda, E.T.; Miftahorrahman; Mangindaan, H.F.; Djafar, M. (Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia)). [Proceeding of the third Symposium on Research Result and Estate Crops Development: Science and technology application to increase competitive ability of estate crops industry toward the third millenium]. Prosiding Simposium ke III Hasil Penelitian dan Pengembangan Tanaman Perkebunan: Penerapan Iptek untuk meningkatkan daya saing industri perkebunan menghadapi millenium III/Pusat Penelitian dan Pengembangan Tanaman Perkebunan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANG Tanaman Perkebunan, 1999 p. 132-144 Summary (In)

COCOS NUCIFERA; PLANT PRODUCTS; HIGH YIELDING VARIETIES; VARIETIES; HYBRIDS; PRODUCTIVITY; YIELDS.

0073 SYARIEFA, F.E. [Hydroponic with cascing]. Hidroponik dengan kascing/Syariefa, F.E.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 53-54 2 ill.

HYDROPONICS; AGRICULTURAL WASTES; ORGANIC AGRICULTURE.

0074 SYARIEFA, F.E. [Simple aeroponic in home terrace]. Aeroponic sederhana di teras rumah/Syariefa, F.E.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 55 3 ill.

AEROPONICS; EQUIPMENT; CULTURE MEDIA; IRRIGATION SYSTEMS.

0075 TOMBE, M. [Use of *Fusarium oxysporum* non-pathogenic (Fo.NP) to obtain non pathogenic stem rot diseases vanilla seedling]. Penggunaan *Fusarium oxysporum* non patogenik (Fo.NP) untuk memperoleh bibit panili yang bebas patogen BBP/Tombe, M.; Zulhisnain, S.; Toufik, E. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceeding of the third Symposium on Research Result and Estate Crops Development: Science and technology application to increase competitive ability of estate crops industry toward the third millenium]. Prosiding Simposium ke III Hasil Penelitian dan Pengembangan Tanaman Perkebunan Penerapan Iptek untuk meningkatkan daya saing industri perkebunan menghadapi millenium III/Pusat Penelitian dan Pengembangan Tanaman Perkebunan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANG Tanaman Perkebunan, 1999 p. 152-159 1 table; 12 ref. Summary (In)

VANILLA PLANIFOLIA; FUSARIUM OXYSPORUM; SEEDLINGS; DISEASE CONTROL; VERTICILLIUM; PATHOGENS; CULTIVATION; SEEDS; VEGETATIVE PROPAGATION; FARM MANAGEMENT; DISEASE RESISTANCE.

0076 WIDYOTOMO, S. [Opportunity of Macadamia as productive shade plant for *Coffea*

*arabica* and its postharvest handling]. Peluang Makadamia sebagai penabung produktif kopi arabika dan penanganan pasca panennya/Widyotomo, S.; Suprijadji, G.. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15 (3) p. 281-292 3 ill. 13 ref.

COFFEA ARABICA; MACADAMIA; SHADE PLANTS; POSTHARVEST TECHNOLOGY; QUALITY; STORAGE.

## F02 PLANT PROPAGATION / PER-BANYAKAN TANAMAN

0077 HARDIYANTO. Technology trial of citrus rootstock production cv. JC on growth and performance of seedlings. Uji teknologi penyediaan batang bawah jeruk JC terhadap pertumbuhan dan keragaan bibit siap tempel/Hardiyanto; Djoema'ijah; Supriyanto, A. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Tlekung, Malang (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (2000) v. 9(4) p. 282-287 3 ill., 3 tables; 10 ref.

CITRUS; SEEDLINGS; ROOTSTOCKS; GROWTH; APPROPRIATE TECHNOLOGY.

0078 SURYADI, R. [Providing highly potential production of cashew seeding by using grafting technique]. Penyediaan bahan tanaman jambu mente berpotensi produksi tinggi melalui penyambungan/Suryadi, R.; Zaubin, R. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceeding of the third Symposium on Research Result and Estate Crops Development: Science and technology application to increase competitive ability of estate crops industry toward the third millenium]. Prosiding Simposium ke III Hasil Penelitian dan Pengembangan Tanaman Perkebunan: Penerapan Iptek untuk meningkatkan daya saing industri perkebunan menghadapi millenium III/Pusat Penelitian dan Pengembangan Tanaman Perkebunan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANG Tanaman Perkebunan, 1999 p. 145-151 14 ref. Summary (In). Appendix

ANACARDIUM OCCIDENTALE; GRAFTING; SEEDLINGS; PRODUCTIVITY; SCIONS; ROOTSTOCKS; YIELDS; LAND SUITABILITY; CLIMATIC FACTORS.

0079 SYARIEFA, E. [Grafting of lansat (*Lansium domesticum*)]. Duku bisa dicangkok/Syariefa, E. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 58

LANSIUM DOMESTICUM; GRAFTING.

## F04 FERTILIZING / PEMUPUKAN

0080 ADINURANI, P.G. [Application of biofertilizers as an effort on increasing productivity and efficiency of inorganic fertilizers of sugarcane in sulphate mineral]. Aplikasi pupuk hayati sebagai upaya peningkatan produktivitas dan efisiensi pupuk inorganik pada budidaya tebu di lahan mineral masam/Adinurani, P.G.; Hendroko, R.; Mataburu, M.. [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency to increase competitive ability of Indonesian sugar industry]. Pertemuan teknis P3GI: produktivitas dan efisiensi tinggi untuk meningkatkan daya saing industri gula Indonesia/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Pasuruan (Indonesia): P3GI, 2000 (pt. 13) p. 1-13 2 ill., 9 tables; 30 ref. Appendices

SACCHARUM OFFICINARUM; BIO-FERTILIZERS; CULTIVATION; VESICULAR ARBUSCULAR MYCORRHIZAE; PRODUCTIVITY; IN-ORGANIC FERTILIZERS; EFFICIENCY; APPLICATION RATES; SOIL FERTILITY; MINERAL SOILS.

0081 ISKAQ, H. [Effect of Ammonium sulphate substitution on urea on the growth and production of sugar cane in dry land, Cintamanis Unit (Indonesia)]. Pengaruh substitusi amonium sulfat pada urea terhadap pertumbuhan dan produksi tebu di lahan kering unit usaha Cintamanis/Iskaq, H.; Hamzah A.M. (Unit Usaha Cintamanis, PTPN VII (Indonesia)); Sudarjanto, A.; Mulyatmo. [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency for improving national sugar industry competitiveness]. Pertemuan Teknis P3GI: produktivitas dan efisiensi tinggi untuk peningkatan daya saing industri gula nasional: Makalah poster pertanian/Pusat Penelitian Perkebunan Gula

Indonesia, Pasuruan (Indonesia). Surabaya (Indonesia): P3GI, 2000 (pt. 10) 8 p. 5 tables; 14 ref. Appendix

SACCHARUM OFFICINARUM; GROWTH; AMMONIUM SULPHATE; UREA; FERTILIZER COMBINATIONS; FERTILIZER APPLICATION; APPLICATION RATES; YIELD INCREASE; DRY FARMING.

0082 SARNO. Humic and fulvic acids in composts of combined agroindustrial solid wastes. Pembentukan asam humik dan asam fulvik pada kompos yang berasal dari berbagai kombinasi limbah padat agroindustri/Sarno (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 209-215 4 tables; 14 ref. Summary (En)

SUMATRA; COMPOSTS; AGRICULTURAL WASTES; NUTRITIVE VALUE.

0083 SETIOWATI, S.E. [Effect of liquid waste handling of Madukismo sugar factory on rice growth in wetland agroecosystem]. Pengaruh penanganan limbah cair PG/PS Madukismo terhadap pertumbuhan padi di agroekosistem sawah/Setiowati, S.E. (Institut Pertanian Stiper, Yogyakarta (Indonesia). Fakultas Pertanian). [Compilation papers presented on the third monthly seminar of STIPER Agricultural Institute]. Kumpulan makalah seminar bulanan III/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): Institut Pertanian Stiper, 1999 (pt. 2) p. 1-14 19 ref.

ORYZA SATIVA; WETLANDS; LIQUID WASTES; WASTE MANAGEMENT; GROWTH.

0084 YOGIATHADI. [Saturation of phosphate by rock phosphate on acid soil in Cintamanis plantations]. Penjenuhan phosphate melalui pemakaian rock phosphate pada tanah asam di Unit Usaha Cintamanis/Yogiathadi; Wasito, T. (Unit Usaha Cintamanis, PTPN VII (Persero), Lampung (Indonesia)); Sudarijanto, A.; Mulyatmo. [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency to increase competitive ability of

Indonesian sugar industry]. Pertemuan teknis P3GI: produktivitas dan efisiensi tinggi untuk meningkatkan daya saing industri gula Indonesia/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Pasuruan (Indonesia): P3GI, 2000 (pt. 11) p. 1-8 5 tables; 10 ref.

SACCHARUM OFFICINARUM; ROCK PHOSPHATE; DOSAGE EFFECTS; GROWTH; FERTILIZER APPLICATION; SUCROSE; YIELDS; ACID SOILS.

#### F07 SOIL CULTIVATION / PENGOLAHAN TANAH

0085 HENDROMONO. The effect of organic and mineral soil media on the quality of *Pterygota alata* Roxb. seedlings. Pengaruh media organik dan tanah mineral terhadap mutu bibit *Pterygota alata* Roxb./Hendromono. Buletin Penelitian Hutan (Indonesia) ISSN 1410-0649 (1998) (617) p. 55-64 1 ill., 2 tables; 15 ref. Summary (En). Appendices

SEEDLINGS; QUALITY; GROWTH; ORGANIC FERTILIZERS; MINERAL SOILS.

#### F08 CROPPING PATTERNS AND SYSTEMS / POLA TANAM DAN SISTEM PENANAMAN

0086 KASIJADI, F. The effect of intercropping on the production and income in upland farming of banana cultivar Ambon Kuning. Pengaruh tanaman sela terhadap produksi dan pendapatan dalam usahatani pisang Ambon Kuning di lahan kering/Kasijadi, F.; Wahyunindyawati; Handoko; Ernawanto, Q.D. (Balai Pengkajian Teknologi Pertanian Karangploso, Malang (Indonesia)). Jurnal Hortikultura (Indonesia) ISSN 0853-7097 (2000) v. 9(4) p. 320-330 7 tables; 18 ref. Summaries (En, In)

MUSA PARADISIACA; VARIETIES; CATCH CROPPING; DRY FARMING; INTERCROPPING; YIELDS; FARM INCOME; ECONOMIC ANALYSIS.

0087 SOENARDI. [Castor and sesame intercropping as an effort on increasing land potential]. Tumpangsari tanaman jarak dan

wijen sebagai salah satu usaha untuk meningkatkan potensi lahan/Soenardi; Sudiby, N. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). *Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia)* ISSN 0853-8204 (2000) v. 6(2) p. 3-5

RICINUS COMMUNIS; SESAMUM INDICUM; INTERCROPPING; SOIL CONSERVATION; SOIL FERTILITY; FARM INCOME.

0088 SUDJARMOKO, B. [Economical efficiency on coconut cropping system] Efisiensi ekonomi pada polatanam kelapa/Sudjarmoko, B.; Listiyati, D.; Tampake, H. (Loka Penelitian Polatanam Kelapa Pakuwon, Sukabumi (Indonesia)). [Prosiding of the Third Symposium on Research Result and Estate Crops Development: Science and technology application to increase competitive ability of estate crops industry toward the third millenium]. Prosiding Simposium ke III Hasil Penelitian dan Pengembangan Tanaman Perkebunan: Penerapan Iptek untuk meningkatkan daya saing industri perkebunan menghadapi millenium III. Pusat Penelitian dan Pengembangan Tanaman Perkebunan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANG Tanaman Perkebunan, 1999 p. 199-206 4 tables; 20 ref. Summary (In)

COCOS NUCIFERA; CATCH CROPPING; CROP MANAGEMENT; FARM MANAGEMENT; EFFICIENCY; FARM INCOME; YIELDS

### **F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN**

0089 ASTIKA, I G.N. Prospects of virus-resistant varieties for controlling rice tungro disease in Bali (Indonesia)/Astika, I G.N. Rice tungro disease management/Chancellor, T.C.B.; Azzam, O.; Heong, K.L. (ed.) (International Rice Research Institute, Los Banos (Philippines)). Los Banos (Philippines): IRRI, 1999 p. 59-66 5 ill., 2 tables; 5 ref. Summary (En)

ORYZA SATIVA; VARIETIES; TUNGRO DISEASE; INFECTION; DISEASE RESISTANCE; PROGENY; ENDEMICS; NEPHOTETTIX VIRESCENS; BALI.

0090 AZZAM, O. Tungro screen kits for extension agents and plant breeders/Azzam, O.; Kenyon, L.; Nath, P.D. Rice tungro disease management/Chancellor, T.C.B.; Azzam, O.; Heong, K.L. (ed.). International Rice Research Institute, Los Banos (Philippines). Los Banos (Philippines): IRRI, 1999 p.77-80 1 ill., 5 ref. Summary (En)

ORYZA SATIVA; TUNGRO DISEASE; GERMPASM; IMMUNE SERUM; DIAGNOSIS; TESTING; INDIA; INDONESIA; PHILIPPINES.

0091 BADRIAH, D.S. Gladiolus cv. Dayang Sumbi. Gladiol 'Dayang Sumbi'/Badriah, D.S.; Sutater, T.; Herlina, D.; Djatnika, I. (Balai Penelitian Tanaman Hias, Jakarta (Indonesia)); Permadi, A.H. *Jurnal Hortikultura (Indonesia)* ISSN 0853-7097 (2000) v. 9(4) p. 385-389 3 tables; 9 ref. Summaries (En, In)

GLADIOLUS; VARIETIES; HYBRIDIZATION; DISEASE RESISTANCE; FUSARIUM OXYSPORUM.

0092 BASUKI, W. [Impact of transgenic plant to environment]. Dampak tanaman transgenik terhadap lingkungan/Basuki, W. (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)). *Majalah BPPT (Indonesia)* ISSN 0216-6569 (1997) (no. 78) p. 84-90 2 tables; 16 ref. Summary (En)

TRANSGENIC PLANTS; WEEDS; GENE TRANSFER; TOXICITY; ANTIBIOTICS; RESISTANCE TO CHEMICALS.

0093 CABUNAGAN, R.C. Multilocation evaluation of advanced breeding lines for resistance to rice tungro viruses/Cabunagan, R.C.; Angeles, E.R.; Villareal, S.; Azzam, O.; Teng, P.S.; Khush, G.S.; Chancellor, T.C.B.; Tingco, E.R.; Truong, X.H.; Mancao, S.C.; Astika, I G.N.; Muis, A.; Chowdhury, A.K.; Narasimhan, V.; Ganapathy, T.; Subramanian, N.. Rice tungro disease management/Chancellor, T.C.B.; Azzam, O.; Heong, K.L. (ed.). International Rice Research Institute, Los Banos (Philippines). Los Banos (Philippines): IRRI, 1999 p. 45-57 4 ill.; 5 tables; 12 ref. Summary (En)

ORYZA SATIVA; RICE TUNGRO VIRUS; PROGENY; DISEASE RESISTANCE; YIELDS; NEPHOTETTIX VIRESCENS; INFECTION; PHILIPPINES; INDONESIA; INDIA.

0094 CHOLIDI, M. [New varieties introduction through red sugar industry]. Introduksi varietas baru melalui industri gula merah, sebagai upaya percepatan alternatif/Cholidi, M.; Sutaryanto, T. (Tanaman Perkebunan Gula Ngadiredjo, Kediri (Indonesia)). [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency for improving national sugar industry competitiveness]. Pertemuan Teknis P3GI: produktivitas dan efisiensi tinggi untuk peningkatan daya saing industri gula nasional/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Surabaya (Indonesia): P3GI, 2000 (pt. 9) 4 p. 2 tables

SACCHARUM OFFICINARUM; INTRODUCED VARIETIES; HIGH YIELDING VARIETIES; PRODUCTIVITY; SUGAR PALMS; SUGAR INDUSTRY.

0095 DARADJAT, A.A. Breeding for rice tungro virus resistance in Indonesia/Daradjat, A.A.; Widiarta, N.; Hasanuddin, A.. Rice tungro disease management/Chancellor, T.C.B.; Azzam, O.; Heong, K.L. (ed.) (International Rice Research Institute, Los Banos (Philippines). Los Banos (Philippines): IRRI, 1999 p. 31-37 4 tables; 7 ref. Summary (En)

ORYZA SATIVA; VARIETIES; SELECTION; TUNGRO DISEASE; DISEASE RESISTANCE; INFECTION; BREEDING METHODS; INDONESIA.

0096 EFENDI. Transformation of soybean with LEA gene: I. Production and analysis of the transgenic plants. Transformasi kedelai dengan gen LEA: I. produksi dan analisis tanaman transgenik/Efendi (Universitas Syiah Kuala, Banda Aceh (Indonesia). Fakultas Pertanian). Jurnal Agrista (Indonesia) ISSN 1410-3389 (2001) v. 5(3) p. 260-265 4 ill., 1 table; 13 ref. Summary (In)

GLYCINE MAX; TRANSGENIC PLANTS; AGROBACTERIUM TUMEFACIENS; INJECTION.

0097 ERMAYANTI, T.M. [Biotechnology in developing countries]. Bioteknologi dan negara berkembang/Ermayanti, T.M. Warta Biotek (Indonesia) ISSN 0215-2835 (2001) v. 15(1) p. 27-28

RICE; BIOTECHNOLOGY; AGRICULTURE; DISEASE CONTROL.

0098 HADAD E.A., M. [Characteristics of cashew high yielding varieties Gunung Gangsir 1 and 2 and its development opportunity]. Karakter varietas unggul jambu mente Gunung Gangsir 1 dan 2 serta peluang pengembangannya/Hadad E.A., M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 1-5 8 tables

ANACARDIUM OCCIDENTALE; HIGH YIELDING VARIETIES; PLANT ANATOMY; ADAPTATION; PLANT PREPARATION.

0099 HASNAM. [Transgenic plants]. Menyikapi keberadaan tanaman transgenik/Hasnam (Pusat Penelitian dan Pengembangan Perkebunan, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(2) p. 9-12

TRANSGENIC PLANTS; BIOTECHNOLOGY; PEST RESISTANCE; DISEASE RESISTANCE; STRESS.

0100 MARDJONO, R. [Possibility of cotton varieties planting in D4 Olderman climate type and technical irrigated land]. Kemungkinan penggunaan varietas kapas genjah di daerah type iklim D4 Olderman dan lahan beririgasi teknis/Mardjono, R. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(1) p. 5-7 1 table

GOSSYPIMUM HIRSUTUM; VARIETIES; IRRIGATED LAND; CLIMATE.

0101 SUPRIADI, H. [Performance of hybrid coconut Indonesia 1 (KHINA-1) in tidal swamp peat soils, West Kalimantan (Indonesia)]. Keragaan kelapa hibrida Indonesia 1 (KHINA-1) di lahan gambut pasang surut Kalimantan Barat/Supriadi, H. (Loka Penelitian Pola Tanam Kelapa (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(1) p. 12-15 5 tables; 12 ref.

COCOS NUCIFERA; HYBRIDS; AGRO-ECOSYSTEMS; PEAT SOILS; TIDES; WEST KALIMANTAN.

0102 TENDA, E.T. [Several promising cultivar of coconuts]. Beberapa kultivar kelapa unggul harapan/Tenda, E.T. (Balai Penelitian Kelapa dan Palma Lain, Manado (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(1) p. 7-9 1 table

COCOS NUCIFERA; VARIETIES; HYBRIDS; FLOWERING; PRODUCTION; DISEASE RESISTANCE; PHYTOPHTHORA.

0103 TIRTAWINATA, M.R. [Rapih (Nephelium)]. Rapih tidak cuma satu/Tirtawinata, M.R.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 41-42 5 ill., 1 table

NEPHELIUM; VARIETIES; PLANT ANATOMY; AGRONOMIC CHARACTERS; PRODUCTIVITY.

0104 TJOKRODIRDJO, H.S. [Number of planted sugarcane varieties and national production increase through statistical data]. Jumlah varietas tebu tertanam dan peningkatan produksi hablur nasional secara imajiner melalui data statistik/Tjokrodirdjo, H.S. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency for improving national sugar industry competitiveness]. Pertemuan Teknis P3GI: produktivitas dan efisiensi tinggi untuk peningkatan daya saing

industri gula nasional: Makalah poster pertanian/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Surabaya (Indonesia): P3GI, 2000 (pt. 3) 21 p. 10 tables; 11 ref. Appendices

SACCHARUM OFFICINARUM; HIGH YIELDING VARIETIES; PLANTATIONS; PRODUCTION INCREASE; CRYSTALLIZATION; STATISTICAL DATA.

#### **F40 PLANT ECOLOGY / EKOLOGI TANAMAN**

0105 SOMPOTAN, C. [Forest ecosystem and its impact for coral reefs]. Ekosistem hutan dan dampaknya terhadap terumbu karang/Sompotan, C. Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (2000) v. 8 (3) p. 10-11 2 ill.

FORESTS; FOREST ECOLOGY; ECOSYSTEMS; ENERGY RESOURCES; AQUACULTURE; CORAL REEFS; WATER CONSERVATION; MARINE ECOLOGY; MARINE ENVIRONMENT; RESOURCE CONSERVATION.

#### **F50 PLANT STRUCTURE / MORFOLOGI DAN ANATOMI TANAMAN**

0106 ANDAYANI, S.T. [Prospect of neem tree for arid region in Indonesia]. Prospek mimba untuk daerah kering di Indonesia/Andayani, S.T. (Institut Pertanian Stiper, Yogyakarta (Indonesia)). [Papers compilation on ninth monthly seminar of Instiper Yogyakarta (Indonesia)]. Kumpulan makalah seminar bulanan 9/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): INSTIPER, 2000 (pt. 1) p. 1-13 24 ref. Summary (En)

AZADIRACHTA INDICA; PLANT ANATOMY; GROWTH; CLIMATOLOGY; USES; DRY FARMING; INDONESIA.

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

0107 GOENARSO, D. [Effect of *Azadirachta indica* leaves extract on non target aquatic animal]. Dampak ekstrak daun mimba terhadap

hewan akuatik bukan sasaran/Goenarso, D. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 14) 6 p. 2 tables; 4 ref. Appendix

AZADIRACHTA INDICA; LEAVES; PLANT EXTRACTS; DAPHNIA; TOXICITY; GROWTH; MORTALITY.

0108 PADMAWINATA, K. [Phytochemical analysis of *Azadirachta indica* leaves extract]. Analisis fitokimia ekstrak daun *Azadirachta indica* Juss/Padmawinata, K.; Ruslan, K.; Soetarno, S.; Soediro, I. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati); Kubo, I. [Report on research results: natural product for insecticides and nematoda]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 2) 19 p. 21 ref. Appendices

AZADIRACHTA INDICA; LEAVES; EXTRACTS; BIOCHEMISTRY; CHROMATOGRAPHY; FLAVONOIDS.

0109 RAHARDJO, M. [Echinacea : potential introduced drug plants]. Echinacea tanaman obat introduksi potensial/Rahardjo, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(2) p. 1-3 1 table

ECHINACEA; DRUG PLANTS; CHEMICAL COMPOSITION; PLANT ANATOMY.

0110 RAHARDJO, M. [Productivity and flavonoid content in *Sonchus arvensis* L. planted at various water stress condition]. Produktivitas dan kadar flavonoid simplisia tempuyung (*Sonchus arvensis* L.) yang diperoleh pada berbagai tingkat kondisi stres air/Rahardjo, M.; Rosita, S.M.D.; Sudiarto; Hernani (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia)

ISSN 0853-8204 (2000) v. 6(2) p. 13-15 1 ill., 2 tables; 5 ref.

SONCHUS; FLAVONOIDS; YIELDS; WATER LEVELS; DROUGHT STRESS; CHEMICAL COMPOSITION.

0111 SUHANDONO, S. [Effect of ethanol extracted from *Azadirachta indica* leaves on mortality, body weight and faeces of cockroach (*Periplaneta americana*). Efek ekstrak etanol dari daun *Azadirachta indica* terhadap kematian, berat tubuh dan faeses dari kacoak *Periplaneta americana*/Suhandono, S. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 7) 12 p. 10 ill., 4 ref. Appendices

AZADIRACHTA INDICA; EXTRACTS; ETHANOL; PERIPLANETA AMERICANA; BODY WEIGHT; MORTALITY; FAECES.

0112 SURIPTO. [Effect of neem leaf extracts on non target mammals]. Dampak ekstrak daun nimba terhadap hewan bukan sasaran mamalia/Suripto (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 13) 4 p. 1 ill., 2 tables

AZADIRACHTA INDICA; LEAVES; EXTRACTS; RABBITS; BLOOD PRESSURE; CARDIO VASCULAR SYSTEM.

0113 TRIKOESOEMANINGTYAS. [Effect of callus extract of *Azadirachta indica* on *Aedes aegypti* larvae]. Pengaruh ekstrak kalus *Azadirachta indica* terhadap larva *Aedes aegypti*/Trikoesoemaningtyas; Noerhadi, E. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut



Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 9) 5 p. 1 table; 6 ref. Appendices

AZADIRACHTA INDICA; CALLUS; EXTRACTS; AEDES AEGYPTI; LARVAE; MORTALITY.

#### **F61 PLANT PHYSIOLOGY - NUTRITION / FISILOGI TANAMAN - NUTRISI**

0114 ANGKASA, S. [Karkaoeh (*Hibiscus sabdariffa*)]. Nikmatnya hibiskus teh/Angkasa, S.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 102

HIBISCUS SABDARIFFA; DRUG PLANTS; TRADITIONAL MEDICINES; ORNAMENTAL PLANTS.

0115 BUDIANA, N.S. [Makuto dewo (*Phaleria macrocarpa*) a medicinal plant for liver]. Makuto dewo penakluk lever/Budiana, N.S.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 51-52 2 ill.

DRUG PLANTS; LIVER DISEASES; TRADITIONAL USES.

0116 SUBIYANTO, B.S. Hades (*Foeniculum vulgare* Miller) as herbal medicine. Manfaat tanaman adas sebagai obat (*Foeniculum vulgare* Miller)/Subiyanto, B.S. (Biro Penyuluhan Departemen Kehutanan dan Perkebunan, Jakarta (Indonesia)). Duta Rimba (Indonesia): Majalah Bulanan Perum Perhutani ISSN 0126-1118 (2000) v. 24(237) p. 27-28 3 ill.

FOENICULUM VULGARE; FRUCTOSE; OILS; FERTILIZERS; DRUGS; SOIL TYPES.

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

0117 ANGKASA, S. [Promoting flower on anting putri (*Wrightia pubescens*)]. Lebatkan bunga anting putri anda/Angkasa, S.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 101

ORNAMENTAL PLANTS; PLANT PROPAGATION; PRUNING; FLOWERING.

0118 DZAJULI, M. [Study of growth pattern and NPK absorption of temuireng (*Curcuma auriginosa*)]. Studi pola pertumbuhan dan serapan hara NPK temuireng/Dzajuli, M.; Darwati, I.; Rosita (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 13-15 5 ill., 1 table; 8 ref.

CURCUMA; GROWTH; NPK FERTILIZERS; NUTRIENT UPTAKE; NUTRITIONAL STATUS.

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

0119 PRAYITNO, S. [Condition and potential of biota in Mamberamo Hilir Subdistrict for agricultural development in Mamberamo river flows, Irian Jaya (Indonesia)]. Kondisi dan potensi biota darat di Kecamatan Mamberamo Hilir bagi pengembangan pertanian di daerah aliran sungai Mamberamo/Prayitno, S. Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1996: 7 p.

BIOTA; AGRICULTURAL DEVELOPMENT; TOPOGRAPHY; VEGETATION; FAUNA; SURVEYS; WATERSHEDS; IRIAN JAYA

0120 RAHAYU, S. [Biological aspects of Hoya R.Br. a genus of Asclepiadaceae family]. Beberapa aspek biologi marga Hoya R.Br. (Asclepiadaceae)/Rahayu, S. (Lembaga Ilmu Pengetahuan Indonesia, Bogor (Indonesia). Kebun Raya). Warta Kebun Raya (Indonesia). Majalah Semi Populer/Populer ISSN 0215-5001 (2001) v. 3(1) p. 1-6.

ASCLEPIADACEAE; TAXONOMY; PLANT ANATOMY, ECOLOGY; CYTOLOGY; REPRODUCTIVE PERFORMANCE; HABITATS; GEOGRAPHICAL DISTRIBUTION; CULTIVATION.

**H10 PESTS OF PLANTS / HAMA TANAMAN**

0121 BAEHAKI. [Effectiveness of botanical insecticides (*Azadirachta indica* A. Juss) extract on brown planthopper (*Nilaparvata lugens* (Stal))]. Efektivitas insektisida botani (ekstrak nimba) terhadap wereng coklat *Nilaparvata lugens* (Stal)/Baehaki; Sastrodihardjo, S. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematoda]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 5) 16 p. 13 tables; 6 ref. Appendices

AZADIRACHTA INDICA; LEAVES; EXTRACTS; BOTANICAL INSECTICIDES; NILAPARVATA LUGENS; MORTALITY; FEEDING HABITS.

0122 DHARMADI, A. [Bio-analysis of *Azadirachta* and *Toona sureni* extract on *Helopeltis antonii signoreta* major pest on tea plantation]. Uji hayati ekstrak *Azadirachta* dan *Toona sureni* terhadap *Helopeltis antonii signoreta* suatu hama utama di kebun teh/Dharmadi, A. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematoda]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 6) 10 p. 3 ill., 4 tables; 3 ref.

AZADIRACHTA; TOONA; EXTRACTS; BOTANICAL INSECTICIDES; HELOPELTIS ANTONII; ANTIFEEDANTS; MORTALITY.

0123 MUDJISIHONO, R. [Manual on pest and disease control on "IP Padi-300 specific location programme" in Yogyakarta province (Indonesia)]. Pedoman pengendalian organisme pengganggu tanaman (OPT) pada pelaksanaan program IP Padi-300 spesifik lokasi di Propinsi Daerah Istimewa Yogyakarta/Mudjisihono, R.; Thamrin, M.; Santosa, T. Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 1999 26 p. 11 ref.

ORYZA SATIVA; DISEASE CONTROL; CULTIVATION; VARIETIES; CROPPING SYSTEMS; PESTICIDES; CENTRAL JAVA.

0124 PRAMONO, D. [Boktor (Cerambycidae, Coleoptera) pest on sugar cane plantations (Indonesia)]. Boktor (Cerambycidae, Coleoptera), hama potensial baru pada perkebunan tebu di Indonesia/Pramono, D.; Rifal, A.; Juliadi, D.; Achadian, E.M. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency to increase competitive ability of Indonesian sugar industry]. Pertemuan teknis P3GI: produktivitas dan efisiensi tinggi untuk meningkatkan daya saing industri gula Indonesia/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Pasuruan (Indonesia): P3GI, 2000 (pt. 14) p. 1-9 3 ill., 2 tables; 10 ref.

SACCHARUM OFFICINARUM; CERAMBYCIDAE; ANIMAL MORPHOLOGY; BEHAVIOUR; LIFE CYCLE; MIGRATORY PESTS; ALTERNATIVE HOSTS; IDENTIFICATION; PLANTATIONS; INDONESIA.

0125 RAHARDJA, M. [Effect of concentrates level of *Azadirachta indica* leaves extracts and soaking duration on root knot (*Meloidogyne spp.*) activities]. Pengaruh tingkat konsentrasi ekstrak daun nimba (*Azadirachta indica*) dan lamanya perendaman terhadap aktivitas nematoda bengkak akar (*Meloidogyne spp.*)/Rahardja, M. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 11) 4 p. 1 table; 7 ref.

LYCOPERSICON ESCULENTUM; MELOIDOGYNE; AZADIRACHTA INDICA; LEAVES; PLANT EXTRACTS; APPLICATION RATES; SOAKING; LARVAE; BILE; TOXICITY.

0126 SASTRODIHARDJO, S. [Evaluation of insecticidal activity of neem (*Azadirachta indica*

A. Juss) leave extract]. Evaluasi daya insektisida dari ekstrak daun nimba (*Azadirachta indica* A. Juss)/Sastrodihardjo, S. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematoda]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 4) 16 p. 13 ill., 26 ref.

AZADIRACHTA INDICA; LEAVES; EXTRACTS; AZADIRACHTIN; ANTI-FEEDANTS; BOTANICAL INSECTICIDES; EVALUATION; INSECTA; GROWTH; MORTALITY.

0127 SASTROSISWOJO, S. [Integrated pest control program on *Theobroma cacao*]. Program pengendalian hama terpadu pada tanaman kakao/Sastrosiswojo, S. (Balai Penelitian Sayuran, Lembang (Indonesia)). Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15(3) p.264-273 9 ref. Appendices

THEOBROMA CACAO; INTEGRATED PEST CONTROL; RESEARCH.

0128 SULISTYOWATI, E. [Resistance of *Hypothenemus hampei* Ferr. On endosulfan insecticide and its distribution mechanism]. Resistensi *Hypothenemus hampei* Ferr. terhadap insektisida endosulfan dan mekanisme penyebarannya/Sulistyowati, E. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15(3) p. 274-280 3 ill. 8 ref.

COFFEA; HYPOTHENEMUS HAMPEI; PEST RESISTANCE; INSECTICIDES; ENDO-SULFAN.

0129 TRIKOESOEMANINGTYAS. [Response of *A. aegypti* larvae on ethanol extracted from *Azadirachta indica* leaves and M. azedarach]. Respon larva *A. aegypti* terhadap ekstrak etanol daun *A. indica* dan buah M. azedarach/Trikoesoemaningtyas; Sastrodihardjo, S.; Soetarno, S. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides

and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 8) 4 p. 1 table; 6 ref.

AZADIRACHTA INDICA; MELIA AZEDARACH; LEAVES; EXTRACTS; ETHANOL; AEDES AEGYPTI; LARVAE; MORTALITY.

## H20 PLANT DISEASES / PENYAKIT TANAMAN

0130 ASHANDI, A.A. [Pest and disease control on potato through environmental friendly methods]. Kendalikan musuh kentang secara ramah lingkungan/Ashandi, A.A.. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 78-79

SOLANUM TUBEROSUM; PESTS OF PLANTS; PLANT DISEASES.

0131 DALMADIYO, G. [Stem rot disease on tobacco var. Besuki]. Penyakit busuk batang berlubang pada tembakau cerutu Besuki/Dalmadiyo, G.; Rachman, A. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 5-6

NICOTIANA TABACUM; ERWINIA CAROTOVORA; SYMPTOMS; DISEASE CONTROL.

0132 HASANUDDIN, A. Improving IPM technology for rice tungro disease in Indonesia/Hasanuddin, A.; Widiarta, I.N.; Yulianto. Rice tungro disease management/Chancellor, T.C.B.; Azzam, O.; Heong, K.L. (ed.). International Rice Research Institute, Los Banos (Philippines). Los Banos (Philippines): IRRI, 1999 p. 129-137 4 ill.; 5 tables; 10 ref. Summary (En)

ORYZA SATIVA; VARIETIES; PLANTING DATE; CROP ROTATION; TUNGRO DISEASE; NEPHOTETTIX VIRESCENS; PEST RESISTANCE; INTEGRATED PEST MANAGEMENT; INDONESIA.

0133 MANOHARA, D. [White powdery spot disease on *Tinospora tuberculata* leaves]. Penyakit bercak putih bertepung (White powdery spot) pada daun Brotowali/Manohara, D. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Tanaman Industri (Indonesia) ISSN 0853-8204 (2000) v. 6(3) p. 11-12

TINOSPORA; CERCOSPORELLA; LEAVES; DISEASE CONTROL.

0134 SUPRIADI. Strategy for controlling wilt disease of ginger caused by *Pseudomonas solanacearum*. Strategi pengendalian penyakit layu bakteri pada jahe yang disebabkan oleh *Pseudomonas solanacearum*/Supriadi; Mulya, K.; Sitepu, D. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2000) v. 19(3) p. 106-111 2 ill., 2 tables; 41 ref. Summaries (En, In)

ZINGIBER OFFICINALE; PSEUDOMONAS SOLANACEARUM; DISEASE CONTROL; PLANTING STOCK; INTERCROPPING; SOIL AMENDMENTS; WEED CONTROL.

0135 UTAMI KP. [Fungal disease caused by *Peronosclerospora maydis* attack sweet corn]. Penyakit ganas landa jagung manis/Utami KP. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 68-69

SWEET CORN; PERONOSCLEROSPORA; SEED TREATMENT; APPLICATION RATES; DISEASE CONTROL.

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

0136 RISWANDI, D. [Effect of Glyphosate dosage on weed, growth and yield of soybean (*Glycine max*) zero tillage]. Pengaruh dosis herbisida glifosat terhadap gulma, pertumbuhan dan hasil kedelai (*Glycine max* (L.) Mer.) pada tanpa olah tanah/Riswandi, D.; Widayat, D.; Sumekar, Y. (Universitas Padjadjaran, Bandung (Indonesia)). Fakultas Pertanian). Bandung (Indonesia): UNPAD, 2000 24 p. 14 tables; 13 ref.

GLYCINE MAX; WEEDS; HERBICIDES; ZERO TILLAGE; APPLICATION RATES; GROWTH; YIELDS.

0137 SANTI, I.S. [(Argentina's fly *Procecidochares connexa*) use for controlling Siam weed (*Chromolaena odorata*)]. Lalat Argentina (*Procecidochares connexa*) untuk mengendalikan gulma siam (*Chromolaena odorata*)/Santi, I.S. (Institut Pertanian Stiper, Yogyakarta (Indonesia)). Fakultas Pertanian). [Papers compilation on twelfth monthly seminar of Instiper Yogyakarta (Indonesia)]. Kumpulan makalah seminar bulanan 12/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): INSTIPER, 2000 (pt.3) 2 p. 4 ref.

CHROMOLAENA ODORATA; WEED CONTROL; BIOLOGICAL CONTROL; NATURAL ENEMIES.

#### **J11 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF AGRICULTURAL PRODUCTS / PENANGANAN, TRANSPOR. PENYIMPANAN DAN PERLINDUNGAN HASIL TANAMAN**

0138 KISMOSATMORO. Postharvest handling of bananas. Penanaman pascapanen pisang/Kismosatmoro (Direktorat Bina Usaha Tani dan Pengolahan Hasil Tanaman Pangan dan Hortikultura). Buletin Pascapanen Hortikultura (Indonesia) ISSN 1410-7740 (1999) v. 1(4) p. 43-48 1 ill.

BANANAS; POSTHARVEST TECHNOLOGY; HARVESTING; TRANSPORT; GRADING; BLEACHING; SOAKING; PACKAGING.

0139 REYES, V.G. Packaging and shelf-life extension of fresh and minimally processed fruits and vegetables. Pengemasan dan perpanjangan ketahanan segar dan minimal proses buah dan sayuran/Reyes, V.G. (The Food Science Australia, Werribee, Victoria). Buletin Pascapanen Hortikultura (Indonesia) ISSN 1410-7740 (1998) v. 1(3) p. 1-6 1 ill., 2 tables; 7 ref.

VEGETABLE PRODUCTS; FRUIT PRODUCTS; PACKAGING; KEEPING QUALITY; CONTROLLED ATMOSPHERE STORAGE; TEMPERATURE.

0140 SULISTYOWATI, E. [Introducing storehouse pest on *Theobroma cacao* and its breeding method in laboratory]. Pengenalan hama gudang pada kakao dan metode pembiakannya di laboratorium/Sulistiyowati, E. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15 (3) p. 306-312 4 ill. 9 ref.

COCOA BEANS; STOREHOUSES; STORED PRODUCTS PESTS; BREEDING METHODS; LABORATORIES.

0141 WAHYUDI, T. [Fumigation of cocoa bean pest in storehouse]. Fumigasi hama gudang biji kakao/Wahyudi, T.; Misnawi. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15 (3) p. 313-323 5 ill., 2 tables; 18 ref.

COCOA BEANS; STORED PRODUCTS PESTS; STOREHOUSES; FUMIGATION; INSECTICIDES.

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

0142 ROSSNARTINI. [Simple preservation of rabbit hairy skin]. Pengawetan kulit bulu kelinci secara sederhana/Rosnartini (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 87-90 3 ref.

RABBITS; SKIN; PRESERVATION.

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

0143 BUDHIYANTI, S.A. Effect of cooking methods on the omega-3 fatty acid content of

scad (*Rastrelliger sp.*). Pengaruh berbagai cara pengolahan ikan kembung (*Rastrelliger sp.*) terhadap kandungan asam lemak omega-3 /Budhiyanti, S.A. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). Jurnal Perikanan (Indonesia) ISSN 0853-6384 (2001) v. 3(1) p. 27-34 5 tables; 15 ref. Summary (En)

RASTRELLIGER; FISH PROCESSING; MOISTURE CONTENT; LIPID CONTENT; SALTS.

0144 PRIYONO, P.R. Sensory evaluation on deterioration of red tilapia (*Oreochromis sp.*) and king catfish (*Clarias gariepinus*) at room temperature. Evaluasi kemunduran mutu nila merah (*Oreochromis sp.*) dan lele dumbbo (*Clarias gariepinus*) secara inderawi selama penyimpanan pada suhu kamar/Priyono, P.R.; Lelana, I.Y.B.; Raharjo, S. (Universitas Gadjah Mada, Yogyakarta (Indonesia)). Jurnal Perikanan (Indonesia) ISSN 0853-6384 (2001) v. 3(1) p. 17-26 2 ill., 4 tables; 26 ref. Summary (En)

CLARIAS GARIEPINUS; OREOCHROMIS; STORAGE; ANIMAL MORPHOLOGY; QUALITY; ORGANOLEPTIC PROPERTIES; TEMPERATURE.

**J15 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF NON-FOOD OR NON-FEED AGRICULTURAL PRODUCTS / PENANGANAN, TRANSPOR, PENYIMPANAN DAN PERLINDUNGAN HASIL NON-PANGAN DAN NON-PAKAN**

0145 SUHERMAN, D. [Processing of crude saponin extract dust from *Sapindus rarak* Dc (EKM)]. Pembuat serbuk ekstrak saponin kasar dari buah lerak (EKM)/Suherman, D. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 105-106

SAPONINS; PROCESSING; SAPINDUS.

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

0146 SANTOSO, H. [Forestry reformation: towards forest conception for people]. Reformasi kehutanan: menuju konsepsi forest for people/Santoso, H. (Institut Pertanian Stiper, Yogyakarta (Indonesia). Fakultas Kehutanan). [Compilation papers presented on the fourth monthly seminar of STIPER Agricultural Institute]. Kumpulan makalah seminar bulanan IV/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): Institut Pertanian Stiper, 1999 (pt. 2) p. 1-19 5 tables; 19 ref.

FOREST RESOURCES; FOREST MANAGEMENT; FORESTRY POLICIES; SOCIAL FORESTRY; COMMUNAL FORESTS.

**K10 FORESTRY PRODUCTION / PRODUKSI HUTAN**

0147 BEUKEBOOM, H. [Social institution model on productive natural forest]. Model kelembagaan masyarakat dalam pengelolaan hutan alam produksi/Beukeboom, H.. [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 54-59

FORESTRY PRODUCTION; FORESTRY MANAGEMENT; SOCIAL INSTITUTIONS.

0148 DEPARTEMEN KEHUTANAN DAN PERKEBUNAN, JAKARTA. [Management of forest area by public]. Pengelolaan kawasan hutan oleh masyarakat/Departemen Kehutanan dan Perkebunan, Jakarta (Indonesia). [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat

Produksi Hasil Hutan, 2000 p. 27-53 7 ill. Appendices

FOREST LAND; FOREST MANAGEMENT; SOCIAL PARTICIPATION; KALIMANTAN.

0149 DIREKTORAT PENGEMBANGAN HUTAN KEMASYARAKATAN, JAKARTA. [Development on application of social forestry]. Perkembangan pelaksanaan hutan kemasyarakatan/Direktorat Pengembangan Hutan Kemasyarakatan, Jakarta (Indonesia). [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 1-8 1 table

SOCIAL FORESTRY; FOREST MANAGEMENT; STAND IMPROVEMENT; FORESTRY DEVELOPMENT.

0150 NGADIONO. [Model on management of productive natural forest by communities surrounding forest area]. Model pengelolaan hutan alam produksi oleh masyarakat sekitar hutan/Ngadiono (Yayasan Adi Sanggoro, Bogor (Indonesia)). [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 77-106 5 ill., 13 tables

FORESTRY PRODUCTION; FOREST MANAGEMENT; FOREST PRODUCTS INDUSTRY; FORESTRY POLICIES; SOCIAL PARTICIPATION; COMMUNITIES.

0151 PAERTHAMA, P. [Alternative silviculture system]. Sistem silvikultur alternatif, perlukah/Paerthama, P. (Balai Penelitian Kehutanan, Pematang Siantar (Indonesia)). Sylvatropika (Indonesia) ISSN 1411-2604 (2000) (No. 23) p. 4-6

## INDONESIA; SILVICULTURE; FORESTRY.

0152 RATUK, P.A. [Experience and evaluation of part of public in forest production effort]. Pengalaman dan evaluasi peran serta masyarakat dalam pengusaha hutan produksi/Ratuk, P.A. (ITCI Kayan Hutan (PT), Jakarta (Indonesia)). [Proceedings on the Seminar of Strategy and Empowering Communities Participation on Production Forestry System]. Prosiding Seminar Strategi dan Peningkatan Pemberdayaan Peran Serta Masyarakat dalam Kegiatan Pengusahaan Hutan Produksi/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.). Direktorat Jenderal Pengelolaan Hutan Produksi, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 24-63 Appendices

## FOREST PRODUCTS; PUBLIC SECTOR; ECONOMIC SITUATION; EVALUATION.

0153 SANTOSO, N. [Utilization model of mangrove area by communities surrounding forest area]. Model pemanfaatan mangrove oleh masyarakat sekitar hutan/Santoso, N.. [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 60-76 1 ill., 2 tables; 12 ref.

## MANGROVES; FOREST LAND; SOCIAL PARTICIPATION; USES; ECONOMIC VALUE; CHARCOAL; COMMUNITIES.

0154 SISWANTO, B.E. Tree volume tariff for *Agathis loranthifolia* Salisb. in Banyumas Barat forest district, Central Java. Tarif isi pohon untuk jenis *Agathis loranthifolia* Salisb. di kesatuan pemangkuan hutan Banyumas Barat, Jawa Tengah/Siswanto, B.E.; Krisnawati, H.. Buletin Penelitian Hutan (Indonesia) ISSN 1410-0649 (1998) (no. 615) p. 1-7 1 table, 10 ref. Summary (En). Appendix

## AGATHIS DAMMARA; FORECASTING; VOLUME; JAVA.

0155 SUBARUDI. [Forest and plantation situation in the millenium era]. Potret kehutanan dan perkebunan di era millenium ke III/Subarudi; Effendi, R. (Pusat Penelitian dan Pengembangan Sosial Ekonomi Kehutanan dan Perkebunan, Bogor (Indonesia)). Sylvatropika (Indonesia) ISSN 1411-2604 (2000) (No. 23) p. 9-11

## INDONESIA; FORESTRY; PLANTATIONS; INSTITUTIONS; FORESTRY POLICIES.

0156 SUPARNA, N. [Part of public in forest production effort]. Pengalaman dan evaluasi peran serta masyarakat dalam pengusaha hutan produksi/Suparna, N.; Ratuk, P.A. (Direktorat Produksi Hasil Hutan, Jakarta (Indonesia)). [Proceedings on the Seminar of Strategy and Empowering Communities Participation on Production Forestry System]. Prosiding Seminar Strategi dan Peningkatan Pemberdayaan Peran Serta Masyarakat dalam Kegiatan Pengusahaan Hutan Produksi/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.). Direktorat Jenderal Pengelolaan Hutan Produksi, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 15-23

## FOREST PRODUCTS; FOREST MANAGEMENT; PUBLIC WORKS; FOREST RESOURCES.

0157 SUWARNO. [Forestry sector in East Kalimantan, Indonesia]. Sekilas tentang sektor kehutanan di Kalimantan Timur/Suwarno; Rahmanto, R.G.H. (Balai Penelitian Kehutanan, Samarinda (Indonesia)). Sylvatropika (Indonesia) ISSN 1411-2604 (2000) (No. 23) p. 6-9 5 tables

## KALIMANTAN; FORESTRY; FOREST RESOURCES; FORESTRY PRODUCTS.

0158 TADJUDIN, D. [Social institution model on natural forest management in Indonesia]. Model kelembagaan masyarakat dalam pengelolaan hutan alam di Indonesia/Tadjudin,

D. (Lembaga Alam Tropika Indonesia, Jakarta (Indonesia)). [Proceedings of the Seminar on Stabilizing of Forest Management Concept by Public]. Seminar Pemantapan Konsepsi Pengelolaan Hutan oleh Masyarakat/Mangiwa, L.; Sukmananto, B.; Setiawan, D.; Triono, D.; Kusnandar, M.D.; Suwandi; Rusmana, I. (eds.) Direktorat Produksi Hasil Hutan, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Produksi Hasil Hutan, 2000 p. 9-26 11 ref.

FORESTRY PRODUCTION; FOREST LAND; FORESTRY MANAGEMENT; SOCIAL INSTITUTIONS; COOPERATIVE ACTIVITIES.

#### **L01 ANIMAL HUSBANDRY / PETERNAKAN**

0159 AMINAH, S. [Etawah crossbreds prospect as production of milk]. Prospek kambing peranakan etawah sebagai penghasil susu/Aminah, S. (Balai Penelitian Ternak Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 14-18 2 tables; 7 ref.

GOATS; CROSSBREDS; DEVELOPMENTAL STAGES; DEVELOPMENT POLICIES; MILK; CHEMICOPHYSICAL PROPERTIES.

0160 ANON. [Indonesian standard for cattle carcass]. SNI karkas sapi/Anon.. Buletin Informasi Pasar (Indonesia) (2000) (Jan) p. 16-18 3 table.

SHEEP; MEAT PRODUCTS; CARCASSES; STANDARDS; SALMONELLA; INDONESIA.

0161 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN, NAIBONAT. [Semi intensive rearing technique of local chicken in the home yards]. Pemeliharaan ayam buras secara semi intensif di lahan pekarangan/Balai Pengkajian Teknologi Pertanian Naibonat (Indonesia). Kupang (Indonesia): BPTP, 2000 16 p. 6 ill., 2 tables; 5 ref.

CHICKENS; INTENSIVE HUSBANDRY; POULTRY HOUSING; FEEDING;

HATCHING; DISEASE CONTROL; ANIMAL DISEASE.

0162 BUDIANA, N.S. [Swallow cultivation]. Seri budidaya walet (41): harta karun Beteng Pendem/Budiana, N.S.. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 78-79 1 ill.

SWALLOWS; ANIMAL HUSBANDRY; FARM STRUCTURE.

0163 HASTONO. [Performance of calf of Brang-Bal hybrids in West Nusa Tenggara]. Penampilan anak sapi keturunan Brang-Bal di NTB/Hastono; Mathius, I W.; Handiwirawan, E.; Putu, I Gede; Situmorang, P. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 80-85 4 tables; 18 ref. Summary (In)

BEEF CATTLE; ANIMAL PERFORMANCE; CROSSBREEDING; BEEF; BIRTH WEIGHT; GROWTH RATE; FEEDS; NUSA TENGGARA.

0164 KARYONO. [Duck "Sharing" system for duck farming in Batara Jaya Indah, Karangrejo (East Java (Indonesia))]. Itik sistem "Sharing" ala Batara Jaya Indah/Karyono. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 76-77 3 ill.

DUCKS; POULTRY FARMING.

0165 KARYONO. [Swallow cultivation]. Seri budidaya walet: Buat lagur sendiri supaya murah/Karyono. Trubus (Indonesia) ISSN 0128-0057 (2001) v. 32(375) p. 25-26

SWALLOWS; CULTIVATION.

0166 KETAREN, P.P. [Productivity of MA crossbred duck in Ciawi and Cirebon].



Produktivitas itik silang MA di Ciawi dan Cirebon/Ketaren, P.P.; Prasetyo, L.H. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 198-205 1 ill., 4 tables; 22 ref. Summary (In

DUCKS; FEEDS; NUTRITIVE VALUE; EGG PRODUCTION; MOULTING; FEED CONVERSION EFFICIENCY; PRODUCTIVITY; JAVA.

0167 PURBA, M. [Duck husbandry model in agriculture system with rice plantation index 3 times/year: 2. productivity during 12 months]. Model usaha ternak itik dalam sistim pertanian dengan indek pertanaman padi tiga kali per tahun (IP padi 300): 2. Produktivitas selama 12 bulan/Purba, M.; Setioko, A.R.; Murtisari, T. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 206-215 3 ill., 6 tables; 6 ref. Summary (In

DUCKS; ORYZA SATIVA; FEEDS; CHEMICAL COMPOSITION; EGG PRODUCTION; MOULTING; MORTALITY; COST ANALYSIS; INTENSIVE FARMING.

0168 RESNAWATI, H. [Optimalization of layer native and broiler chicken culture technology]. Optimalisasi teknologi budidaya ternak ayam lokal penghasil daging dan telur/Resnawati, H.; Nataamijaya, A.G.; Kusnadi, U.; Sugiyono; Iskandar, S. (Balai Penelitian Ternak, Bogor (Indonesia)); Hamid, H.. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 172-176 2 tables; 9 ref. Summary (In

CHICKENS; REARING TECHNIQUES; BODY WEIGHT; EGGS; CARCASSES; THORAX; MORTALITY.

0169 SUDARDJAT, S. [Strategies on increasing food sustainability in animal husbandry]. Strategi peningkatan ketahanan pangan nasional bidang peternakan /Sudardjat, S. (Direktorat Jenderal Produksi Peternakan, Jakarta (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 17-20

FOOD SECURITY; ANIMAL HUSBANDRY; FOOD CONSUMPTION; PROTEINS; FOOD POLICIES.

0170 SURYANA, A. [Prospect and challenge of animal husbandry subsector in increasing national food sustainability]. Harapan dan tantangan bagi subsektor peternakan dalam meningkatkan ketahanan pangan nasional/Suryana, A. (Badan Urusan Ketahanan Pangan, Jakarta (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 21-28 6 tables

INDONESIA; ANIMAL HUSBANDRY; FOOD SECURITY; FOOD SUPPLY; ECONOMIC DISTRIBUTION; FOOD CONSUMPTION; PRICES; DIVERSIFICATION.

## L02 ANIMAL FEEDING / MAKANAN TERNAK

0171 ATMİYATI. [Storage of rice straw as feed animal reserve for dry season]. Cara penyimpanan jerami sebagai cadangan pakan ternak pada musim kemarau/Atmiyati (Balai Penelitian Ternak, Bogor (Indonesia)).

[Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 72-75 2 ill., 2 ref. Summary (In)

RICE STRAW; FEED CROPS; STORAGE; METHODS; DRY SEASON.

0172 JUSNANDAR, M.E. [Utilization of Sago wastes for feeding ruminants]. Pemanfaatan ampas sago untuk pakan ternak ruminansia/Jusnandar, M.E.; Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 61-62 3 ref.

SAGO; WASTES; ANIMAL FEEDING; RUMINANTS

0173 MARLINA, N. [*Leucaena leucocephala* as soybean meal substitute in layer chicken feed]. Lamtoro sebagai pengganti bungkil kedelai dalam ransum ayam petelur/Marlina, M.; Askar, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 97-100 3 tables; 4 ref.

LEUCAENA LEUCOCEPHALA; ANIMAL FEEDING; NUTRITIVE VALUE; SOYBEAN MEAL; RATIONS; LAYER CHICKENS.

0174 PASAMBE, D. [Effect of balinese parent cattle feed improvement on weight increasing of weaning calves]. Pengaruh perbaikan pakan pada induk sapi bali terhadap pertambahan bobot badan pedet yang sedang menyusui/Pasambe, D.; Sariubang, M.; Nurhayu, A.; Bahar, S.; Chalidjah (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Gowa (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo;

Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 224-227 3 tables; 7 ref. Summary (In)

BEEF CATTLE; CALVES; FEEDS; SUPPLEMENTS; BODY WEIGHT; BIRTH WEIGHT; LACTATION.

0175 SABRANI, M. [Technique of simple feed processing and substitution effort for poultry]. Teknik pembuatan pakan unggas secara sederhana dan usaha substitusi/Sabrani, M. (Balai Penelitian Ternak, Ciawi, Bogor (Indonesia)). [Proceedings of the National Workshop on Research Results and Agricultural Technology Assessment]. Prosiding Lokakarya Nasional Hasil Penelitian dan Pengkajian Teknologi Pertanian/Balai Pengkajian Teknologi Pertanian, Palangkaraya (Indonesia). Palangkaraya (Indonesia): BPTP, 1999 p. 180-186 5 tables; 2 ref.

CHICKENS; ANIMAL FEEDING; RATIONS; NUTRITIVE VALUE.

0176 SARIUBANG, M. [Probiotic application on straw fermentation as balinese cattle feed dry season]. Pemanfaatan probiotik dalam fermentasi jerami sebagai pakan sapi bali di musim kemarau/Sariubang, M.; Pasambe, D.; Nurhayu, A.; Natal, T.S.; Chalidjah (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Gowa (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 219-223 3 tables; 5 ref. Summary (In)

BEEF CATTLE; FEEDS; PROBIOTICS; RICE STRAW; FERMENTATION; GROWTH; BODY WEIGHT; TECHNOLOGY TRANSFER; DRY SEASON.

0177 SAROSO, B. [Utilization of ramie as textile, pulp, feeds, and drug materials]. Tanaman rami sebagai bahan tekstil, pulp, pakan ternak dan obat/Saroso, B.; Sastrosupadi, A. (Balai Penelitian Tembakau dan Tanaman Serat, Malang (Indonesia)). Warta Penelitian dan

Pengembangan Tanaman Industri (Indonesia)  
ISSN 0853-8204 (2000) v. 6(1) p. 3-5

RAMIE; TEXTILES; PULP AND PAPER;  
FEEDS; DRUGS; CHEMICOPHYSICAL  
PROPERTIES; QUALITY.

0178 SASANGKA, B.H. [Application of two different NPN various supplement on fattening Onggole hibrid cattle]. Pemberian dua macam suplemen yang berbeda sumber NPN pada penggemukan sapi peranakan Onggole/Sasangka, B.H. (Pusat Penelitian dan Pengembangan Teknologi Isotop dan Radiasi-BATAN, Jakarta (Indonesia)). [Proceedings of the national seminar on animal husbandry and veterinary]. Prosiding seminar nasional peternakan dan veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000: p. 228-232 3 ill., 9 ref. Summary (In

BEEF CATTLE; FEEDS; SUPPLEMENTS;  
FATTENING; ZINC; UREA; BODY WEIGHT;  
FAECES.

0179 SUDIN, A. [Prospect and challenge of feed production on supporting national food sustainability]. Harapan dan tantangan produsen pakan ternak dalam mendukung ketahanan pakan nasional/Sudin, A. (Gabungan Perusahaan Makanan Ternak Indonesia, Jakarta (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 29-30 2 tables

LIVESTOCK; FEEDS; FEED PRODUCTION;  
IMPORTS.

0180 SUPRIYATI. The effect of continuous feeding of gliricidia on reproduction and production performances of Javanese Fat-Tailed sheep: impact on the second breeding. Pengaruh pemberian glirisidia secara kontinu terhadap kinerja reproduksi dan produksi domba ekor gemuk: dampak pada perkawinan kedua/

Supriyati; Budiarsana, I G.M.; Utama, I-K. (Balai Penelitian Ternak, Bogor (Indonesia)). Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1999) v. 4(3) p. 161-166 5 tables; 21 ref. Summaries (En, In)

SHEEP; GLIRICIDIA SEPIUM; FEEDING  
FREQUENCY; REPRODUCTIVE PER-  
FORMANCE; WEIGHT GAIN; MATING  
SYSTEMS.

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

0181 ADIATI, U. [The effect of male, ejaculation period and parent weight on pregnancy level and kid delivery]. Pengaruh pejantan, periode ejakulasi dan kelompok bobot induk saat di IB terhadap tingkat kebuntingan dan kelahiran anak/Adiati, U.; Suparyanto, A. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 101-110 2 ill., 4 tables; 5 ref. Summary (In)

SHEEP; PREGNANCY; PARTURITION;  
EJACULATION; ARTIFICIAL INSEMI-  
NATION; BODY WEIGHT; PREGNANCY  
COMPLICATION.

0182 AFIATI, F. [Increase of embryo production of cow through in vitro fertilization technique]. Peningkatan produksi embrio sapi dengan teknik fertilisasi in vitro/Afiati, F. (Pusat Penelitian dan Pengembangan Bioteknologi. Lembaga Ilmu Penelitian Ilmiah, Cibinong Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 32-35 2 ill., 1 table; 5 ref.

CATTLE; EMBRYONIC DEVELOPMENT;  
EMBRYO TRANSFER; IN VITRO  
CULTURE; IN VITRO FERTILIZATION;  
OVA.

0183 DARWATI S. [Productivity of native chicken, Pelung cock and their reciprocals].

Produktivitas ayam kampung, pelung dan resiprokalnya/Darwati S. (Institut Pertanian Bogor (Indonesia) Fakultas Pertanian). Media Peternakan: Jurnal Ilmu Pengetahuan dan Teknologi Peternakan (Indonesia) ISSN 0126-0472 (2000) v. 23(2) p. 32-35 3 tables; 9 ref. Summary (En)

CHICKENS; PRODUCTIVITY; EGG PRODUCTION; EGG HATCHABILITY.

0184 DRAJAT A.S. [Velvet antler production of rusa (*Cervus timorensis*) and sambar (*Cervus unicolor*) hybrid]. Produksi ranggah muda pada persilangan rusa timorensis (*Cervus timorensis*) dan rusa sambar (*Cervus unicolor*)/Drajat A.S. (Universitas Mataram (Indonesia) Fakultas Peternakan. Media Peternakan: Jurnal Ilmu Pengetahuan dan Teknologi Peternakan (Indonesia) ISSN 0126-0472 (2000) v. 23(2) p. 36-39 16 ref. Summary (En)

CERVUS; ANTLERS; HYBRIDS; PRODUCTION.

0185 GUNAWAN, A. [Local knowledge system of native chicken selection and treatment on its potential productivity. Sistem pengetahuan lokal cara seleksi ayam buras dan uji coba potensi produktivitasnya/Gunawan, A.; Sulistyati, M.; Budiman (Balai Pengkajian Teknologi Pertanian, Lembang (Indonesia)); Sulaeman, M.; Hidayat, K.. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 185-188 1 table; 7 ref. Summary (In)

LAYER CHICKENS; EGG PRODUCTION; SELECTION; PRODUCTIVITY.

0186 HASTONO. [Similarity of oestrous time using CIDR on people sheeps in Nagrak (West Java, Indonesia)]. Penyerempakan berahi dengan menggunakan CIDR pada domba rakyat di Kecamatan Nagrak/Hastono; Inounu, I.; Saleh, A.; Hidayati, N. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and

Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 143-148 2 tables; 17 ref. Summary (In)

SHEEP; SEXUAL BEHAVIOUR; BODY WEIGHT; PMSG; WEST JAVA.

0187 HOHENBOKEN, W.D. Animal breeding in the global world: present state and future prospects/Hohenboken, W.D.. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 65-72 Summary (En)

ANIMALS; ANIMAL RESOURCES; BREEDING METHODS; HUMAN RESOURCES.

0188 PAMUNGKAS, D. [Observation of performance on young native chicken of arabic-white kedu breed in onfarm condition at Pacitan, East Java (Indonesia)]. Observasi performan ayam buras muda persilangan arab-kedu putih dalam kondisi on farm di Kabupaten Pacitan Jawa Timur/Pamungkas, D.; Affandhy, L.; Umiyasih, U.; Rasyid, A. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Grati, Pasuruan (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 177-184 3 ill., 8 tables; 8 ref. Summary (In)

CHICKENS; CROSSBREDS; INGREDIENTS; CONSUMPTION; FEED CONVERSION EFFICIENCY; BODY WEIGHT; MORTALITY; EGG PRODUCTION.

0189 PRAHARANI, L. [Evaluation of scrotum diameter and young ram libido of

composit and Barbados cross groups]. Evaluasi lingkaran skrotum dan libido pejantan muda rumpun domba komposit dan Barbados cross/Praharani, L.; Subandriyo; Tiesnamurti, B.; Adiati, U. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 130-133 1 table; 11 ref. Summary (In)

SHEEP; SCROTUM; LIBIDO; BODY WEIGHT; EJACULATION.

0190 PURNAMA, R.D. [Utilization of artificial insemination technology on increasing productivity of rabbit in Indonesia]. Pemanfaatan teknologi kawin suntik (IB) dalam usaha meningkatkan produktivitas induk kelinci di Indonesia/Purnama, R.D. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 91-96 4 tables; 9 ref.

RABBITS; ARTIFICIAL INSEMINATION; PRODUCTIVITY; INDONESIA.

0191 RAHMANI, N. [Genetic evaluation of Fries Holland dairy cattle on milk production in Cijanggal Co. Ltd. Lembang (West Java, Indonesia)]. Evaluasi genetik produksi susu sapi Fries Holland di PT Cijanggal-Lembang/Rahmani, N.; Pallawarukka (Institut Pertanian Bogor, Bogor (Indonesia). Fakultas Peternakan); Anggraeni, A. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 86-93 3 tables; 13 ref. Summary (In)

DAIRY CATTLE; ANIMAL BREEDING; GENETIC PARAMETERS; MILK PRODUCTION; JAVA.

0192 SARI, E.M. Estimation of genetic parameters for poll dorset sheep. Estimasi parameter genetik pada domba poll dorset/Sari, E.M. (Universitas Syiah Kuala, Banda Aceh (Indonesia). Fakultas Pertanian). Jurnal Agrista (Indonesia) ISSN 1410-3389 (2001) v. 5(3) p. 296-301 3 tables; 19 ref. Summary (In)

SHEEP; GENETIC PARAMETERS; HERITABILITY; GENETIC CORRELATION.

0193 SUBANDRIYO. [Pre and post weaning growth of hairy and local (Sumatra) sheeps crossbreds on field treatment condition]. Pertumbuhan pra-dan pasca sapih persilangan domba rambut dan lokal Sumatera pada kondisi lapangan percobaan/Subandriyo; Setiadi, B.; Suparyanto, A.; Handiwirawan, E.; Praharani, L. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 116-129 3 ill., 4 tables; 9 ref. Summary (In)

SHEEP; CROSS BREEDING; BODY WEIGHT; GROWTH RATE; AGE; WEANING.

0194 SULAEMAN. [Several genetic aspect in sea ranching]. Beberapa aspek genetika dalam melakukan sea ranching/Sulaeman (Balai Penelitian Perikanan Pantai, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2001) v. 7(1) p. 2-5 1 ill., 14 ref.

SALTWATER FISHES; AQUACULTURE; GENETICS; BEHAVIOUR; ADAPTATION; ENVIRONMENT; POPULATION GROWTH; SELECTION.

0195 SUMANTADINATA, K. [Research program of fish genetic]. Program penelitian genetika ikan/Sumantadinata, K. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Proceedings of the Seminar on Research Results of Fish Genetic]. Prosiding Seminar Hasil Penelitian Genetika Ikan/Hardjamulia, A. (ed.) Pusat Penelitian dan

Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): PUSLITBANGKAN, 1999 p. 16-17

FISHES; GENETICS; RESEARCH.

0196 SUMANTRI, M. [Factors influence the success of artificial insemination on cattle]. Faktor-faktor yang mempengaruhi keberhasilan inseminasi buatan pada ternak sapi/Sumantri, M.; Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 8-13 2 tables; 8 ref.

CATTLE; ARTIFICIAL INSEMINATION; SPERMATOZOA.

0197 SUPARYANTO, A. [Variability of morphological traits and genetic relationships estimation within sheep groups in people animal production center and experiment station]. Keragaman sifat morfologis dan estimasi jarak pertalian genetik antar rumpun domba pada sentra produksi peternakan rakyat dan stasiun percobaan/Suparyanto, A.; Subandriyo; Praharani, L.; Adiati, U. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 134-142 1 ill., 4 tables; 10 ref. Summary (In)

SHEEP; ANIMAL MORPHOLOGY; GENETICS; SMALL FARMS.

0198 TAMBING, S.N. [Birth weight and reproduction performance of cattle resulted from *Bos taurus* x *bos* banteng crossbreeding]. Bobot lahir dan kinerja reproduksi sapi hasil persilangan *Bos taurus* x *bos* banteng: /Tambing, S.N.; Sariubang, M.; Chalidjah (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Gowa, Sulawesi Selatan (Indonesia)). [Proceedings of the National Seminar on Animal

Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 75-79 2 tables; 15 ref. Summary (In)

CATTLE; CROSSBREEDING; ARTIFICIAL INSEMINATION; LITTER SIZE; REPRODUCTION; BIRTH WEIGHT.

## L20 ANIMAL ECOLOGY / EKOLOGI HEWAN DARAT

0199 ERNIWATI. [Insect diversity in gold mining waste farmland]. Keaneka ragam serangga di lahan pertanian bekas penambangan emas/Erniwati (Pusat Penelitian Biologi, Bogor (Indonesia). Bidang Zoologi). [Project of assessment and utilization of biological resources]. Proyek pengkajian dan pemanfaatan sumberdaya hayati/Rahmansyah, M.; Hidayat, M.; Praptiwi (Eds.). Pusat Penelitian Biologi, Bogor (Indonesia). Bogor (Indonesia): Puslit Biologi, 2001 p. 171-176. 6 ref.

ORTHOPTERA; COLEOPTERA; LEPIDOPTERA; HEMIPTERA; HYMENOPTERA; BIODIVERSITY; IDENTIFICATION; HABITATS; TRAPS; FARM-LAND; WASTE LAND

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

0200 DAHELMI. [Physiological effect of *Azadirachta indica* leaves extract on grasshopper (*Valanga sp.*)]. Efek fisiologis ekstrak daun *Azadirachta indica* terhadap belalang (*Valanga sp.*)/Dahelmi (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematode]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 15) 26 p. 4 ill., 5 tables; 21 ref.

AZADIRACHTA INDICA; LEAVES; EXTRACTS; ACRIDIDAE; INTESTINES;

FEEDING HABITS; FEED INTAKE; FAECES.

0201 TIESNAMURTI, B. [Characteristic behaviour of weaning garut sheep]. Karakteristik tingkah laku menyusu anak domba garut/Tiesnamurti, B.; Inounu, I. (Balai Penelitian Ternak, Bogor (Indonesia)); Herwidi, I.B. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 149-155 2 ill., 9 ref. Summary (In)

SHEEP; LACTATION; PREWEANING PERIOD; BEHAVIOUR.

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

0202 KUSHARTONO, B. [Estimation technique of age on several ruminants]. Teknik pendugaan umur pada beberapa ternak ruminansia/Kushartono, B. (Balai Penelitian Ternak, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 15-17 1 ill., 3 tables; 4 ref.

CATTLE; WATER BUFFALOES; GOATS; SHEEP; TEETH; AGE; DEVELOPMENTAL STAGES; ANIMAL PHYSIOLOGY.

0203 SEMIADI, G. Body weight changes of sambar deer (*Cervus unicolor*) under temperate pasture conditions. Perubahan berat badan rusa sambar (*Cervus unicolor*) pada kondisi padang rumput di daerah beriklim sedang/Semiadi, G. (Lembaga Ilmu Pengetahuan Indonesia, Balai Penelitian dan Pengembangan Zoologi, Cibinong-Bogor (Indonesia)); Barry, T.N.; Muir, P.D.. Jurnal Biologi Indonesia (Indonesia) ISSN 0854-4427 (1998) v. 2(2) p. 104-110 2 ill., 1 table; 14 ref. Summaries (En, In)

CERVUS; WEIGHT GAIN; PASTURES; SUPPLEMENTS; SEASONS; PADDOCK GRAZING; TEMPERATE ZONES.

## L53 ANIMAL PHYSIOLOGY - REPRODUCTION / FISILOGI TERNAK - REPRODUKSI

0204 AMIN, M.R. Effect of bovine seminal plasma on frozen semen quality of swamp buffaloes (*Bubalus bubalis*). Pengaruh plasma semen sapi terhadap kualitas semen beku kerbau lumpur (*Bubalus bubalis*)/Amin, M.R. (Universitas Pattimura, Ambon (Indonesia). Fakultas Pertanian); Toelihere, M.R.; Yusuf, T.L.; Situmorang, P.. Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1999) v. 4(3) p. 143-147 3 tables; 13 ref. Summaries (En, In)

WATER BUFFALOES; SEMEN; BOVINE; QUALITY; SPERMATOZOA; MORTALITY; CHEMICOPHYSICAL PROPERTIES.

0205 INOUNU, I. Lamb production of prolific sheep. Produksi anak pada domba prolific/Inounu, I.; Tiesnamurti, B.; Subandriyo (Balai Penelitian Ternak, Bogor (Indonesia)); Martojo, H.. Jurnal Ilmu Ternak dan Veteriner (Indonesia) ISSN 0853-7380 (1999) v. 4(3) p. 148-160 5 ill., 3 tables; 42 ref. Summaries (En, In)

SHEEP; GENOTYPES; LITTER SIZE; WEIGHT; REPRODUCTIVE PERFORMANCE; SURVIVAL; BIRTH RATE; WEANING.

0206 KOSTAMAN, T. [Effect of various solution and time equilibration on quality of Etawah hybrid]. Pengaruh jenis pengencer dan waktu ekuilibrasi terhadap kualitas semen beku kambing peranakan Etawah/Kostaman, T.; Utama, I-K.; Situmorang, P.; Budiarsana, I G.M. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 156-163. 1 ill., 3 tables; 17 ref. Summary (In)

GOATS; SEMEN; QUALITY; SPERMATOZOA; MOVEMENT; SURVIVAL.

0207 SARTIKA, T. [Application of DNA mitochondrian genetic marker and its relation to nesting habits of local chicken]. Penggunaan genetik marker mitokondria DNA dan hubungannya dengan sifat mengeram pada ayam lokal/Sartika, T.; Gunawan, B. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 164-171 7 ill., 16 ref. Summary (In)

CHICKENS; BROODING; GENETIC MARKERS; DNA; RESTRICTION ENZYMES.

0208 SETIOKO, A.R. [Effect of diluent cryoprotectant and equilibration time on quality and spermatozoa fertility of duck]. Pengaruh diluen, cryoprotectant, dan waktu equilibrasi terhadap kualitas dan fertilitas spermatozoa itik dan entog/Setioko, A.R.; Situmorang, P.; Triwulaningsih, E.T. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 189-197 6 tables; 8 ref. Summary (In)

DUCKS; SPERMATOZOA; COAGULATION; QUALITY; FERTILITY; SEMEN PRESERVATION; TEMPERATURE; CRYOPROTECTANTS; MOVEMENT; SURVIVAL.

0209 SUDARMADI, B. [Accuracy analysis on means of body weight estimates of female dairy cow]. Analisis ketepatan sarana penduga berat badan pada sapi perah dara/Sudarmadi, B. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Grati (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 21-23 4 ill., 7 ref.

DAIRY CATTLE; BODY WEIGHT; DIMENSIONS; ANIMAL PHYSIOLOGY.

0210 SUMARYADI, M.Y. [Effect of PMSG (Pregnant Mare's Serum Gonadotropin) injection on progesteron concentration related to the growth of uteric gland in sheep luteum phase of oestrous cycle]. Efek penyuntikan PMSG terhadap konsentrasi progesteron kaitannya dengan pertumbuhan kelenjar uterus domba pada fase luteal siklus berahi/Sumaryadi, M.Y.; Haryati (Universitas Jenderal Soedirman, Purwokerto (Indonesia). Fakultas Peternakan); Manalu, W.. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 111-115 1 table; 22 ref. Summary (In)

SHEEP; PMSG; PROGESTERONE; UTERUS; CORPUS LUTEUM; GROWTH.

0211 SURYANA. [Isolation technique and identification of hatching room of alabio duck and its environment]. Teknik isolasi dan identifikasi pada ruang penetasan itik alabio dan lingkungannya/Suryana (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Banjarbaru (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 18-20 2 tables; 17 ref.

DUCKS; HATCHING; EGG INCUBATION; LABORATORY DIAGNOSIS; ISOLATION TECHNIQUES; IDENTIFICATION; SALMONELLA; ESCHERICHIA COLI; ENTEROBACTER.

0212 TALIB, C. [Growth of virgin FH cattle as candidate for parent stock during age of 120-240 day]. Pertumbuhan sapi FH dara calon bibit dari umur 120-240 hari/Talib, C.; Kuswandi; Anggraeni, A. (Balai Penelitian Ternak, Bogor (Indonesia)); Diwyanto, K.. [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 94-100 1 ill., 6 tables; 14 ref. Summary (In)



BEEF CATTLE; GROWTH RATE; BODY WEIGHT; CONCENTRATES; PROXIMATE COMPOSITION; BREEDS (ANIMALS).

0213 YOGA, G.P. [Effect of pesticide on sexual hormone balance of fish]. Pengaruh pestisida terhadap ketidakseimbangan hormon seks pada ikan/Yoga, G.P. (Pusat Penelitian dan Pengembangan Limnologi, Cibinong, Bogor (Indonesia)). *Warta Limnologi (Indonesia)* (1999) v. 13(31) p. 10-11

FISHES; SEX HORMONES; PESTICIDES.

#### **L60 ANIMAL TAXONOMY AND GEOGRAPHY / TAKSONOMI HEWAN DAN SEBARAN GEOGRAFINYA**

0214 SUWELo, I.S. [*Orcaella brevirostris* Gray 1866 documentation]. Catatan tentang pesut (*Orcaella brevirostris* Gray 1866)/Suwelo, I.S. (Pusat Pendidikan dan Latihan Kehutanan, Bogor (Indonesia)). *Warta Konservasi: Lahan Basah (Indonesia)* ISSN 0854-963X (1999) v. 8(2) p. 16-17 1 ill.

DELPHINUS; SURVEYS; RESEARCH; TAXONOMY; VERTEBRATA; AQUATIC ANIMAL; ANIMAL ECOLOGY; GEOGRAPHICAL DISTRIBUTION.

#### **L70 VETERINARY SCIENCE AND HYGIENE - GENERAL ASPECTS / ILMU VETERINER DAN KESEHATAN TERNAK - ASPEK UMUM**

0215 SUKATA, K.T. [Readiness of animal medicine business on supporting national food sustainability]. Kesiapan usaha obat hewan Indonesia dalam mendukung ketahanan pangan nasional/Sukata, K.T. (Asosiasi Obat Hewan Indonesia, Jakarta (Indonesia)). [Proceedings of the National Seminar on Animal Husbandry and Veterinary]. Prosiding Seminar Nasional Peternakan dan Veteriner/Haryanto, B.; Darminto; Hastiono, S.; Utama, I K.; Partoutomo, S.; Subandriyo; Sinurat, A.P.; Darmono; Supar; Butarbutar, S.O. (Eds.). Bogor (Indonesia): PUSLITBANGNAK, 2000 p. 31-34 1 table

LIVESTOCK; VETERINARY MEDICINE; QUALITY; FOOD SECURITY; INDONESIA.

#### **L73 ANIMAL DISEASES / PENYAKIT TERNAK**

0216 ANON. [Anthrax disease on Ostrich]. Waspada terhadap penyakit radang limpa (Anthrax)/Anon.. *Buletin Informasi Pasar (Indonesia)* (2000) (Jan) p. 4-6

OSTRICHES; BACILLUS ANTHRACIS; CATTLE; BACTERIAL SPORES; FEED MEALS; ENDEMIC; JAVA

0217 BARKAH, K. [Isolation technique of anthrax from ostriches sample]. Teknik isolasi kuman antraks dari sampel burung unta/Barkah, K. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings on Functional Technical Meeting of Non Researcher]. Prosiding Temu Teknis Fungsional Non Peneliti/Tresnawati, M.B.; Nurhadi, A.; Darmono; Rachmawati, S.; Wina, E.; Kalsid, E.; Budiman, H. (Eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 2000: p. 40-45

OSTRICHES; ANTHRAX; BACILLUS ANTHRACIS; ISOLATION TECHNIQUES; IMMUNDIAGNOSIS.

0218 BARKAH, K. [Isolation technique of *Bacillus anthrax* from pig]. Teknik isolasi kuman antraks dari babi/Barkah, K. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 158-162 2 ill., 5 ref.

SWINE; ISOLATION TECHNIQUES; ANTHRAX; BACILLUS ANTHRACIS.

0219 KURNIASIH, N. [Technical test of antibiotic resistance of enterotoxigenic *E. coli* isolate on diarrhea piglet]. Teknik uji kepekaan *Escherichia coli* enterotoksigenik isolat dari anak babi diare terhadap antibiotika/Kurniasih, N. (Balai Penelitian Veteriner, Bogor

(Indonesia). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 153-157 2 tables; 5 ref.

SWINE; DRUG RESISTANCE; ANTI-BIOTICS; DIARRHOEA; ESCHERICHIA COLI.

0220 MARIYONO. [Inventory technique of giant prawn diseases]. Teknik inventarisasi penyakit udang galah/Mariyono (Balai Penelitian Perikanan Air Tawar, Sukamandi (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 39-41 1 ill.; 4 tables, 8 ref.

MACROBRACHIUM ROSENBERGII; FISH DISEASES; IDENTIFICATION; PROTOZOA; BACTERIA.

0221 RAHMAWATI, S. [Control of *Escherichia coli* infection]. Senjata baru melawan *E. coli*/Rahmawati, S.. Warta Biotek (Indonesia) ISSN 0215-2835 (2001) v. 15(1) p. 21-22

CATTLE; ESCHERICHIA COLI; DISEASE CONTROL; MEAT HYGIENE.

0222 SAFUAN, A. [Analysis of magnesium and calcium mineral content in cattle serum using atom absorption spectrophotometry]. Analisis kandungan mineral kalsium dan magnesium dalam serum sapi dengan cara spektrofotometer serapan atom/Safuan, A. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 163-166 3 tables; 5 ref.

CATTLE; ANALYTICAL METHODS; CALCIUM; MAGNESIUM; SPECTROMETRY.

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

0223 LASUT, M.T. [Comparison of toxicity level of some pesticides (Endosulfan, Phenthoate, BPMC, Glyphosate, Sulposate, 2,4 D) using milk fish (*Chanos chanos* Forsk.)]. Komparasi tingkat toksisitas beberapa pestisida (Endosulfan, Fentoat, BPMC, Glifosat, Sulfosat, 2,4 D) dengan menggunakan ikan bandeng (*Chanos chanos* Forsk.)/Lasut, M.T. (Universitas Sam Ratulangi, Manado (Indonesia). Fakultas Pertanian); Polii, B.; Kumurur, V.A.. Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam (2001) v. 1(1) p. 1-6 1 table; 23 ref. Summary (En)

CHANOS; PESTICIDES; ENDOSULFAN; PHENTHOATE; GLYPHOSATE; SULFOSATE; 2,4-D; DOSAGE; TOXICITY; MORTALITY; POLLUTION CONTROL.

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

0224 AHMAD, T. [Analysis of sea farming development in Indonesia]. Analisis pengembangan sea farming di Indonesia/Ahmad, T. (Balai Penelitian Perikanan Pantai, Maros (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2001) v. 7(1) p. 9-14 2 ill.

SALTWATER FISHES; FISH CULTURE; CONSTRAINTS; DEVELOPMENT POLICIES; INDONESIA.

0225 INDRAWADI. [Coral reefs rehabilitation with old tire]. Merehabilitasi terumbu karang dengan ban bekas/Indrawadi (Universitas Bung Hatta, Padang (Indonesia). Fakultas Perikanan). Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (1999) v. 8(2) p. 10-11 2 ill.

CORAL REEFS; ARTIFICIAL REEFS; AQUACULTURE; AQUACULTURE TECHNIQUES; FISHING GROUNDS; SUMATRA.

0226 ISMAIL, W. [Stock enhancement of Indonesian waters]. Pengkayaan stok (Stock enhancement) kegiatan dan prospeknya untuk perairan Indonesia/Ismail, W. (Pusat Penelitian dan Pengembangan Eksplorasi Laut dan Perikanan, Jakarta (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2001) v. 7(1) p. 14-18 1 ill., 4 ref.

INDONESIA; COASTAL WATERS; POPULATION GROWTH; SITE FACTORS; BIOTA; HABITAT IMPROVEMENT.

0227 SAVITRI, L.A. [Collaborate in beach management]. Berkolaborasi dalam pengelolaan pesisir/Savitri, L.A. (Wetlands International AP-Indonesia Programme, Bogor (Indonesia)). Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (2000) v. 8(3) p. 6-8 1 ill.

BEACHES; AQUACULTURE; AQUATIC ECOLOGY; AQUATIC ENVIRONMENT; MANAGEMENT; WATER CONSERVATION.

0228 SETYAWATI T., E. [Research and development institution guidance project supporting fishes research and development]. Dukungan proyek PKP3/ARM-II untuk penelitian dan pengembangan perikanan/Setyawati T., E.; Iskandar, S.; Lukiati, H. (Departemen Pertanian, Jakarta (Indonesia)). [Proceedings on Technical Workshop of Fisheries Research and Development Center]. Kumpulan Makalah Rapat Kerja Teknis Puslitbang Perikanan/Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): PUSLITBANGKAN, 1999 (pt. 4) 9 p. 3 tables, 9 ref.

FISHERIES DEVELOPMENT; RESEARCH; RESEARCH INSTITUTIONS; RESEARCH SUPPORT.

0229 SOFIAWAN, A. [Wetland conserve]. Melestarikan lahan basah/Sofiawan, A.. Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (2000) v. 8 (3) p. 20-21

WETLANDS; AQUACULTURE; WATER CONSERVATION; AQUATIC ENVIRONMENT; AQUATIC ECOLOGY.

0230 SURYADIPUTRA, I.N.N. [Utilization and conservation of sea turtle in Indonesia]. Pemanfaatan dan perlindungan penyu laut di Indonesia/Suryadiputra, I.N.N. (Wetlands International AP-Indonesia Programme, Bogor (Indonesia)). Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (2000) v. 8 (3) p. 16-17

CHELONIA; DERMOCHELYS; LEPIDOSAPPHES; ERETMOCHELYS; CARETTA; ANIMAL ECOLOGY; NATURE CONSERVATION; RESOURCE MANAGEMENT.

## M11 FISHERIES PRODUCTION / PRODUKSI PERIKANAN

0231 DIREKTORAT JENDERAL PERIKANAN, JAKARTA. [Fisheries development programme supporting export, fishermen economic empowerment and food security]. Program pembangunan perikanan menunjang peningkatan ekspor, pemberdayaan ekonomi nelayan dan ketahanan pangan/Direktorat Jenderal Perikanan, Jakarta (Indonesia). [Proceedings on Technical Workshop of Fisheries Research and Development Center]. Kumpulan makalah rapat kerja teknis Puslitbang Perikanan/Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): Puslitbangkan, 1999 (pt. 1) 24 p. 6 tables

FISHERIES DEVELOPMENT; FISHERY PRODUCTION; EXPORT PROMOTION; FISHERMEN; FOOD SECURITY; COSTS.

0232 SUDRADJAT, A. [Marine culture development in Indonesia]. Pengembangan marikultur di Indonesia/Sudradjat, A.; Ismail, W.; Philip T.I. [Proceedings on Technical Workshop of Fisheries Research and Development Center]. Kumpulan Makalah Rapat Kerja Teknis Puslitbang Perikanan/Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): PUSLITBANGKAN, 1999 (pt. 2) 18 p. 5 tables; 4 ref. Appendices

MARINE FISHERIES; FISH CULTURE; FISHERIES DEVELOPMENT; INDONESIA.

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

0233 GIRI, N.A. [*Epinephelus microdon* hatchery for marine fishery development]. Pembenhian ikan kerapu batik (*Epinephelus microdon*) sebagai upaya penyediaan benih untuk pengembangan budidaya laut/Giri, N.A. (Loka Penelitian Perikanan Pantai Gondol, Bali (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2001) v. 7(1) p. 6-9 3 ill., 2 tables; 11 ref.

EPINEPHELUS; HATCHERIES; FISH LARVAE; OVIPOSITION; FISH FEEDING.

0234 KAMSO, H.N. [Concept of national fish hatchery system]. Konsep sistem perbenihan ikan nasional/Kamso, H.N. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). [Proceedings of the Seminar on Research Results of Fish Genetic]. Prosiding Seminar Hasil Penelitian Genetika Ikan/ Hardjamulia, A. (ed.) Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): PUSLITBANGKAN, 1999 p. 9-15 14 ref.

FISHES; HATCHERIES; AQUACULTURE; FEEDS; FISH DISEASES.

0235 KRISTANTO, A.H. [Technology of local material - based feeds supporting hatchery development and fattening of local fish in Central Kalimantan (Indonesia)]. Teknologi pakan berbasis bahan baku lokal guna mendukung pengembangan pembenihan dan pembesaran ikan lokal di Kalimantan Tengah/Kristanto, A.H. (Balai Penelitian Perikanan Air Tawar Sukamandi (Indonesia)). [Proceedings of the National Workshop on Research Results and Agricultural Technology Assessment]. Prosiding Lokakarya Nasional Hasil Penelitian dan Pengkajian Teknologi Pertanian/Balai Pengkajian Teknologi Pertanian, Palangkaraya (Indonesia). Palangkaraya (Indonesia): BPTP, 1999 p. 228-253 4 tables; 12 ref.

FISHES; FISH FEEDING; NUTRITIVE VALUE; FISH FARM; REARING TECHNIQUES; TECHNOLOGY; GROWTH; BODY WEIGHT; KALIMANTAN.

0236 MARZUKI, S. [Adaptability study on *Epinephelus tauvina* rearing culture in pond]. Uji adaptasi teknologi budidaya pembesaran kerapu lumpur di tambak/Marzuki, S.; Pawarti, M.; Rusmadji; Budihardjo, S.; Asro, M.; Suratno; Handoko, E. Balai Pengkajian Teknologi Pertanian, Ungaran (Indonesia). Ungaran (Indonesia): BPTP, 2000 32 p. 5 ill., 4 tables; 22 ref. Summary (In). Appendices

EPINEPHELUS; FISH CULTURE; BRACKISH WATER; STOCKING DENSITY; FEED CONVERSION EFFICIENCY; GROWTH RATE; SURVIVAL; MORTALITY; WATER QUALITY.

0237 RACHMANSYAH. [Super milkfish production cultured at floating net cage in the sea]. Produksi bandeng super dalam keramba jaring apung di laut/Rachmansyah; Usman; Ahmad, T. (Balai Penelitian Perikanan Pantai, Maros (Indonesia)). Warta Penelitian Perikanan Indonesia (Indonesia) ISSN 0853/894 (2001) v. 7(1) p. 18-27 3 ill., 3 tables; 19 ref.

CHANOS; FISH CULTURE; SITE FACTORS; CAGE CULTURE; FISH FEEDING; WATER QUALITY; HARVESTING; DISEASE CONTROL; COST ANALYSIS.

0238 RAMELAN, S.H. [Aim and strategy of fish hatcheries]. Arah dan strategi perbenihan ikan/Ramelan, S.H. (Direktorat Jenderal Perikanan, Jakarta (Indonesia)). [Proceedings of the Seminar on Research Results of Fish Genetic]. Prosiding Seminar Hasil Penelitian Genetika Ikan/Hardjamulia, A. (ed.) Pusat Penelitian dan Pengembangan Perikanan, Jakarta (Indonesia). Jakarta (Indonesia): PUSLITBANGKAN, 1999 p. 7-8

FISHES; HATCHERIES; DEVELOPMENT POLICIES; INDONESIA.

**M40 AQUATIC ECOLOGY / EKOLOGI PERAIRAN**

0239 MEUTIA, A.A. [Design of ecology with wetlands for lake and river restoration]. Aplikasi rekayasa ekologi dengan wetlands untuk restorasi danau dan sungai/Meutia, A.A. (Pusat Penelitian dan Pengembangan Limnologi,

Cibinong, Bogor (Indonesia)). *Warta Limnologi (Indonesia)* (1999) v. 13(31) p. 2-5 9 ref.

INDONESIA; ECOLOGY; WETLANDS; WATER RESERVOIRS; LAKES; RIVERS.

0240 MULYADI. Composition and distribution of the family Pontellidae (Crustacea: Copepoda) in Indonesian waters. Komposisi dan distribusi famili Pontellidae (Krustasea: Kopepoda) di perairan Indonesia/Mulyadi (Lembaga Ilmu Pengetahuan Indonesia. Balai Penelitian dan Pengembangan Zoologi, Cibinong, Bogor (Indonesia)). *Jurnal Biologi Indonesia (Indonesia)* ISSN 0854-4427 (1998) v. 2(2) p. 83-94 4 ill., 2 tables; 22 ref. Summaries (En, In)

CRUSTACEA; SPECIES; POPULATION STRUCTURE; PLANKTON; GENERA; COASTAL WATERS; INDONESIA.

0241 NEBATH J., J. [Aquatic plants abundance in Tondano Lake (Sulawesi, Indonesia)]. Kelimpahan tumbuhan akuatik di Danau Tondano/Nebath J., J. (Universitas Sam Ratulangi, Manado (Indonesia). Fakultas Pertanian). *Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam* (2001) v. 1(1) p. 33-37 2 tables; 11 ref. Summary (En)

EICHHORNIA CRASSIPES;  
CERATOPHYLLACEAE; HYDRILLA  
VERTICILLATA; LAKES; DOMINANT  
SPECIES; GEOGRAPHICAL DISTRI-  
BUTION; EUTROPHICATION; BIO-  
DIVERSITY.

0242 NIRARITA, CH.E. [Ecology succession on wet land]. Sukses ekologi di lahan basah/Nirarita, CH. E. *Warta Konservasi: Lahan Basah (Indonesia)* ISSN 0854-963X (1999) v. 8 (2) p. 15 1 ill.

WETLANDS; ECOLOGY; ECOLOGICAL SUCCESSION.

0243 SETIO, P. [Leather-back turtle]. Penyu belimbing; generasi yang tak mengenal orang tua/Setio, P. (Balai Penelitian Kehutanan, Manokwari (Indonesia)). *Sylvatropika*

(Indonesia) ISSN 1411-2604 (2000) (No. 23) p. 1-4

TURTLES; HABITATS; IRIAN JAYA.

0244 SULAWESTY, F. [Phantom midge: an important freshwater insects]. Phantom midge salah satu insekta air tawar penting/Sulawesty, F. (Pusat Penelitian dan Pengembangan Limnologi, Cibinong, Bogor (Indonesia)). *Warta Limnologi (Indonesia)* (1999) v. 13(31) p. 7-9

CHAOBORUS; FRESHWATER ECOLOGY; INDONESIA.

0245 SUNANISARI, S. [Role of plants on constructed wetland]. Peranan tumbuhan pada constructed wetland/Sunanisari, S. (Pusat Penelitian dan Pengembangan Limnologi, Cibinong, Bogor (Indonesia)). *Warta Limnologi (Indonesia)* (1999) v. 13(31) p. 5-7 2 ref.

PLANTS; WETLANDS; ECOLOGY.

## **N01 AGRICULTURAL ENGINEERING / REKAYASA PERTANIAN**

0246 KUSHARTONO, B. [Modification of pump from conventional fuelled to electric system on tractor]. Modifikasi pompa bahan bakar traktor cara konvensional menjadi sistem pompa elektrik/Kushartono, B.; Santoso, G.D. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. *Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia)*. Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 121-124 4 ref.

PUMPS; FUELS; ELECTRICITY.

0247 SITOMPUL, S. [Service technique of chemistry analysis and its constraint]. Teknik pelayanan analisis kimia dan kendala-kendalanya/Sitompul, S.; Aryani, E. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. *Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan,*

Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 125-128 5 ref.

ANALYTICAL METHODS; SERVICES; CONSTRAINTS.

## **N10 AGRICULTURAL STRUCTURES / BANGUNAN-BANGUNAN PERTANIAN**

0248 ADIYUWONO, N.S. [Rack form and type for shiitake mushroom cultivation]. Bentuk dan ragam rak untuk shiitake/Adiyuwono, N.S. Trubus (Indonesia) ISSN 0128-0057 (2000) v. 31(372) p. 66-67 2 ill.

EDIBLE FUNGI; CULTIVATION; FARM EQUIPMENT.

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

0249 ANANTO, E.E. [Development of agricultural equipment supporting farming system and postharvest improvement in tidal swamp land in South Sumatra (Indonesia)]. Pengembangan alat dan mesin pertanian menunjang sistim usaha tani dan perbaikan pascapanen di lahan pasang surut Sumatera Selatan/Ananto, E.E.; Sutrisno; Astanto; Soentoro Badan Penelitian dan Pengembangan Pertanian (Indonesia). Jakarta (Indonesia): Badan Litbang Pertanian, 2000: 96 p. 11 ill., 57 tables; 17 ref.

RICE; CORN; POSTHARVEST EQUIPMENT; FARM EQUIPMENT; THRESHER; HARVESTING; DRYING; MILLING; SOYBEANS; PLANTING; DRYER.

0250 LATIEF, A. [Engineering of efficient seed sortation equipment technology for seed]. Rekayasa teknologi tepatguna alat sortasi biji-bijian untuk benih/Latief, A.; Priyatna, E.; Widodo, Y.; Kushartono, B. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, 40

Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 101-104

SEEDS; SORTING EQUIPMENT; ENGINEERING; SEEDLINGS.

0251 PRAYITNO, S. [Plant and agricultural machinery system analysis on lowland rice production using plant growth model]. Analisis sistim tanaman dan mesin pertanian pada produksi padi sawah menggunakan model pertumbuhan tanaman/Prayitno, S. (Universitas Muhammadiyah, Jakarta (Indonesia). Fakultas Teknik). Kultum (Indonesia) ISSN 0854-7246 (1997) v. 5(13) p. 74-83 1 ill., 1 table; 5 ref. Summary (In)

IRRIGATED RICE; FARM EQUIPMENT; GROWTH; AGRICULTURAL PRODUCTS; PRODUCTION ECONOMICS; MODELS.

0252 SURACHMAN, H. [Construction of fermentation for production of fermented feed]. Pembuatan ruang fermentor untuk produk fermentasi pakan/Surachman, H.; Sya'id, M.M. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 67-71 4 ref.

FERMENTATION; FERMENTERS; FEEDS; BUILDINGS; BUILDING CONSTRUCTION.

## **P01 NATURE CONSERVATION AND LAND RESOURCES / KONSERVASI SUMBERDAYA ALAM DAN SUMBERDAYA LAHAN**

0253 ARASY, R. [National park in Kerinci Seblat]. Taman nasional Kerinci Seblat/Arasy, R. (Departemen Pekerjaan Umum, Padang (Indonesia). Kantor Wilayah). Warta Konservasi : Lahan Basah (Indonesia) ISSN 0854-963X (1999) v. 8 (2) p. 12-13

SUMATRA; NATIONAL PARKS; FOREST PROTECTION; BIODIVERSITY; NATURE CONSERVATION; ENVIRONMENTAL PROTECTION.

0254 INDRAWADI. [Mangrove forest in Sarabua Gulf need to conserve]. Hutan mangrove Teluk Sarabua perlu segera di-konservasi/Indrawadi (Universitas Bung Hatta, Padang (Indonesia). Fakultas Pertanian)). Warta Konservasi: Lahan Basah (Indonesia) ISSN 0854-963X (2000) v. 8(3) p. 9

MANGROVES; FORESTS; FOREST PROTECTION; RESOURCE CONSERVATION; CORAL REEFS; SUMATRA.

0255 ISKANDAR, S. The study of coastal birds diversity and their habitat condition at Pulau Rambut Nature Reserve. Kajian keragaman merandai kondisi lingkungannya di Cagar Alam Pulau Rambut/Iskandar, S.; Heriyanto, N.M.; Bismark, M.; Eman. Buletin Penelitian Hutan (Indonesia) ISSN 1410-0649 (1998) (615) p. 39-48 3 ill., 4 tables; 6 ref. Summary (En). Appendix

BIRDS; BIODIVERSITY; HABITATS; ENVIRONMENTAL FACTORS.

0256 SAWITRI, R. Biodiversity and management of estuarine ecosystem in Way Kambas National Park, Lampung (Indonesia). Keragaman hayati dan pengelolaan ekosistem estuaria di Taman Nasional Way Kambas, Lampung/Sawitri, R.; Mukhtar, A.S.; Heriyanto, N.M.. Buletin Penelitian Hutan (Indonesia) ISSN 1410-0649 (1998) (615) p. 21-37 1 ill., 4 tables; 19 ref. Summary (En). Appendices

SUMATRA; BIODIVERSITY; ECOSYSTEMS; FLORA; FAUNA; PLANKTON; CYCLING.

0257 ZURAIIDA. Biodiversity and effect of land use pattern in bufferzone to mount Halimun National Park conservation, West Java [Indonesia]. Keragaman jenis hayati dan pengaruh pola pemanfaatan lahan di daerah penyangga terhadap kelestarian Taman Nasional Gunung Halimun, Jawa Barat/Zuraida; Setyawati, T Buletin Penelitian Hutan (Indonesia) ISSN 1410-0649 (1998) (617) p. 41-54 4 tables., 7 ref. Summary (En) Appendices

BIODIVERSITY; CONSERVATION; LAND USE; FLORA; FAUNA; NATIONAL PARKS; JAVA.

## **P10 WATER RESOURCES AND MANAGEMENT / SUMBERDAYA AIR DAN PENGELOLAANNYA**

0258 WANTASEN, S. [Water quality decreasing of Tondano watershed in North Sulawesi (Indonesia)]. Penurunan kualitas air DAS Tondano di Sulawesi Utara/Wantase, S.; Kereh, M.R. (Universitas Sam Ratulangi, Manado (Indonesia)). Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam (2001) v. 1(1) p. 29-32 1 ill., 2 tables; 8 ref. Summary (En)

SULAWESI; LAKES; WATERSHEDS; WATER QUALITY; LAND USE; FISHING METHODS; PHOSPHATES; NITRATES; PESTICIDES; RESIDUES.

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

0259 ERWIYONO, R. Bioaggregation of a montmorillonitic acid soil: the role of organic matter and microbial activity. Bioagregasi tanah masam montmorilonitik: peran bahan organik dan aktivitas mikroba/Erwiyono, R. (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia))Away, Y. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 161-169 2 ill., 4 tables; 18 ref. Summary (En)

JAVA; ACID SOILS; SOIL ORGANIC MATTER; SOIL BIOLOGY.

0260 KADERI, H. [Formation process of ferrous sulphate on actual acid sulphate soil]. Proses terbentuknya pirit-S pada lahan sulfat masam aktual/Kaderi, H. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(2) p. 8-11 2 ill., 4 ref.

SOIL PH; ACID SOILS; SULPHURIC ACID; OXIDATION; REDUCTION; SOIL CHEMICOPHYSICAL PROPERTIES.

0261 KUSNADI, K. [Observation on peat thickness using simple equipment]. Pengamatan ketebalan gambut dengan menggunakan alat

sederhana/Kusnadi, K. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 1-2 2 ill., 3 ref.

PEAT SOILS; SOIL MANAGEMENT EQUIPMENT; SOIL SURVEYS; THICKNESS.

0262 MANIK, K.E.S. Utilization of liquid waste of oil palm plantation land. Pemanfaatan limbah cair pengolahan minyak sawit pada areal tanaman kelapa sawit/Manik, K.E.S. (Universitas Lampung, Bandar Lampung (Indonesia).. Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 147-152 2 tables; 6 ref. Summary (En)

ELAEIS GUINEENSIS; LIQUID WASTES; PALM OILS; USES; SOIL CHEMICO-PHYSICAL PROPERTIES; SOIL WATER.

0263 MUHAMMAD, H. Maximum of sulfate sorptions of Vertisol, Inceptisol, and Entisol soils from Jeneponto regency [South Sulawesi (Indonesia). Erapan maksimum sulfat pada tanah Vertisol, Inceptisol dan Entisol dari Kabupaten Jeneponto/Muhammad, H. (Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Jeneponto (Indonesia))Rachim, A.; Sabihan, S.; Adijuwana, H. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 153-159

SULAWESI; SOIL SORPTION; SULPHATES; SOIL CHEMICO-PHYSICAL PROPERTIES.

0264 MULUDI, K. Optimum sample number for predicting regional soil physical characteristics: application of regional variable theory. Penetapan jumlah sampel sifat-sifat fisik tanah yang optimal untuk pendugaan nilai sifat-sifat fisik tanah regional: aplikasi teori variable regional/Muludi, K. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 225-233 4 ill., 22 ref. Summary (En)

SUMATRA; SOIL CHEMICO-PHYSICAL PROPERTIES; SOIL; SAMPLING.

0265 PURNOMO, E. The variation of soil pH, aluminium, and phosphorus within the root zone of maize strains differing in their tolerance to aluminium toxicity/Purnomo, E.; Syaifuddin, H.; Fahmi, A.; Kasim, F.; Yasin, M.H.G.. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 171-178 8 ill., 15 ref. Summary (En)

ZEA MAYS; SOIL CHEMICO-PHYSICAL PROPERTIES; PH; ALUMINIUM; PHOSPHORUS; TOXICITY; RHIZOSPHERE; RESISTANCE TO CHEMICALS.

0266 SABIHAN, S. Studies on the inherent properties and behaviour of peat: the losses of Carbon dioxide (CO<sub>2</sub>) and methane through the reduction-oxidation processes. Kajian beberapa sifat inheren dan perilaku gambut: kehilangan karbon dioksida (CO<sub>2</sub>) dan metana (CH<sub>4</sub>) melalui proses reduksi-oksidasi/Sabihan, S. (Institut Pertanian Bogor (Indonesia) Fakultas Pertanian)Sulistiyono, E. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 127-135 12 tables; 13 ref. Summary (En)

SUMATRA; PEAT SOILS; SOIL CHEMICO-PHYSICAL PROPERTIES; CARBON DIOXIDE.

0267 SALAM, A.K. Chemical availabilities of phosphorus, manganese and iron in limin LC treated tropical soils/Salam, A.K.; Wiharso, D. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian)Suyatno; Handoko; Harahap, J.T. Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils ISSN 0852-257X (2000) v. 5(10) p. 137-145 4 ill., 3 tables; 22 ref. Summary (En)

SUMATRA; TROPICAL SOILS; SOIL CHEMICO-PHYSICAL PROPERTIES; PHOSPHORUS; MANGANESE; INDUSTRIAL WASTES.

0268 SYARNADI H.M.A. A study on changes in paddy soil hydraulic conductivity as affected by duration of cultivation on a podzolic soil in Lampung [Indonesia]. Penelitian perubahan nilai hydraulic conductivity tanah sawah akibat lama pemanfaatan lahan berjenis tanah Podzolik di Propinsi Lampung/Syarnadi



H.M.A. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). *Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils* ISSN 0852-257X (2000) v. 5(10) p. 179-185 2 tables; 14 ref. Summary (En)

SUMATRA; PODZOLS; SOIL HYDRAULIC PROPERTIES; PADDY SOIL.

0269 WIHARSO, D. Use of the corrected clay CEC value for Oxisols identification. Penggunaan nilai KTK liat (Terkoreksi) untuk identifikasi tanah Oxisols/Wiharso, D. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). *Jurnal Tanah Tropika (Indonesia) = Journal of Tropical Soils* ISSN 0852-257X (2000) v. 5(10) p. 217-223 3 tables; 8 ref. Summary (En)

TROPICAL ZONES; CLAY SOILS; SOIL CHEMICOPHYSICAL PROPERTIES.

### P34 SOIL BIOLOGY / BIOLOGI TANAH

0270 KARYADI, S. Inorganic phosphate solubilizing and cellulose degradation capability of some soil bacterial isolates. Kemampuan melarutkan fosfat anorganik dan merombak selulosa dari beberapa isolat bakteri asal tanah/Karyadi, S.; Wardoyo, S.S.; Sumarsih, S. (Universitas Pembangunan Nasional "Veteran", Yogyakarta (Indonesia) Fakultas Pertanian). *Agrivet (Indonesia)* ISSN 1410-3796 (1998) v. 2(1) p. 74-84 2 ill., 2 tables; 25 ref. Summary (En)

JAVA; SOIL CHEMICOPHYSICAL PROPERTIES; SOIL BIOLOGY; PHOSPHATES; CELLULOSE; SOLUBILIZATION.

### P40 METEOROLOGY AND CLIMATOLOGY / CUACA DAN IKLIM

0271 BUDIANTO, J. [Anticipating effort in agricultural technology facing climate anomaly in 2002]. Upaya antisipatif di bidang teknologi pertanian dalam menghadapi anomali iklim tahun 2002/Budianto, J.; Admihardja, A. (Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia)). [Proceedings of the Seminar on Increasing Food Security in Central Java (Indonesia)]. *Prosiding Seminar Usaha Peningkatan Ketahanan Pangan di Jawa Tengah/*

Mudjisihono, R.; Hardjono, S.P.; Prawirodigdo, S.; Subiharta; Prasetyo, T.; Yulianto (eds.). Bogor (Indonesia): PSE, 2001 p. 1-3

AGRICULTURAL SECTOR; TECHNOLOGY; CLIMATE; LOWLAND; UPLAND SOILS.

0272 PRABOWO, A. Study of climate requirement for sorghum (*S. bicolor* L. Moench.) in Sikka and Kupang [Indonesia]. Studi iklim wilayah Kabupaten Sikka dan Kupang untuk pertanaman sorgum/Prabowo, A. (Balai Penelitian Tanaman Jagung dan Serealia Lainnya, Maros (Indonesia)). *Hasil Penelitian Pascapanen dan Mekanisasi (Indonesia)* (1997) v. 16 p. 14-21 6 ill., 4 ref. Summary (En)

SORGHUM BICOLOR; CLIMATE; EVAPOTRANSPIRATION; RAIN; NUSA TENGGARA.

0273 SURASANA, E. [Eco-climatic zone of *Azadirachta indica* A. Juss in West Java (Indonesia)]. Zona eko-klimat *Azadirachta indica* A. Juss di Jawa Barat/Surasana, E. (Institut Teknologi Bandung (Indonesia). Bidang Ilmu Hayati). [Report on research results: natural product for insecticides and nematoda]. Laporan hasil penelitian: produk alami untuk anti hama (insektisida dan nematoda)/Institut Teknologi Bandung (Indonesia). Bandung (Indonesia): ITB, 1999 (pt. 3) 9 p. 4 ref. Appendices

AZADIRACHTA INDICA; ECOLOGY; CLIMATIC ZONES; GROWTH; VEGETATION; PLANT DEVELOPMENTAL STAGES; JAVA.

0274 WINDIHARTO. [Sugarcane yield estimate on year 2000 based on climate correlation with sucrose content]. Perkiraan rendemen tahun 2000 yang bisa dicapai tiga PG PTPN XI berdasarkan koreksi iklim dengan rendemen/Windiharto; Chujaemi, M. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)). [Indonesian Sugar Research Institute (ISRI) technical meeting: high productivity and efficiency for improving national sugar industry competitiveness]. *Pertemuan Teknis P3GI: produktivitas dan efisiensi tinggi untuk peningkatan daya saing industri gula nasional: Makalah poster*

pertanian/Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia). Surabaya (Indonesia): P3GI, 2000 (pt. 13) 12 p. 1 table; 7 ref.

SUGARCANE; CLIMATIC FACTORS; RAIN; TEMPERATURE; SUCROSE; EFFICIENCY.

#### **Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN MAKANAN**

0275 KUSMARWATI, A. The examination of *Staphylococcus aureus* on traditionally processed fish products in Bangka Regency. Pemeriksaan bakteri *Staphylococcus aureus* pada produk perikanan yang diolah secara tradisional di Kabupaten Bangka/Kusmarwati, A.; Darmosuwito, S.; Lelana, I.Y.B. (Universitas Gadjah Mada, Yogyakarta (Indonesia)). Jurnal Perikanan (Indonesia) ISSN 0853-6384 (2001) v. 3(1) p. 1-8 3 tables; 15 ref. Summary (En)

FISH PRODUCTS; PROCESSED ANIMAL PRODUCTS; STAPHYLOCOCCUS AUREUS; BIOLOGICAL CONTAMINATION; CHEMICOPHYSICAL PROPERTIES.

0276 SUGIARTO. [Yoghurt quality made from cattle and goat milk] Mutu yoghurt susu sapi dan yoghurt susu kambing/Sugiarto (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 28-32 5 ref.

YOGHURT; MILK; METHODS; CHEMICOPHYSICAL PROPERTIES; QUALITY; CATTLE; GOATS.

#### **Q03 FOOD CONTAMINATION AND TOXICOLOGY / KONTAMINASI DAN TOKSIKOLOGI PANGAN**

0277 SUNARDI. [Food contamination by bacteria: potential danger and its control]. Pencemaran pangan oleh bakteri: potensi bahaya dan pencegahannya/Sunardi (Institut Pertanian

Stiper, Yogyakarta (Indonesia). Fakultas Teknologi Pertanian). [Papers compilation on twelfth monthly seminar of Instiper Yogyakarta (Indonesia)]. Kumpulan makalah seminar bulanan 12/Institut Pertanian Stiper, Yogyakarta (Indonesia). Yogyakarta (Indonesia): INSTIPER, 2000 (pt. 1) 9 p. 2 ill., 5 tables; 5 ref.

FOODS; CONTAMINATION; BACTERIA; FOOD SAFETY; FOOD HYGIENE.

#### **Q04 FOOD COMPOSITION / KOMPOSISI MAKANAN**

0278 KUSNINGSIH. [Nutritive value on cattle meat ball from some trader in Bogor]. Nilai gizi bakso sapi dari beberapa pedagang di Kotamadya Bogor/Kusningsih; Sugiarto (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 19-24 8 ref.

CATTLE; MEAT; NUTRITIVE VALUE; TRADE; JAVA.

0279 SULISTYOWATI. [Organoleptic testing for cocoa beans quality analysis]. Uji cita rasa untuk pengujian mutu biji kakao/Sulistyowati. Warta Pusat Penelitian Kopi dan Kakao (Indonesia) ISSN 0215-1308 (1999) v. 15 (3) p. 324-332 6 ref.

COCOA BEANS; ORGANOLEPTIC ANALYSIS; QUALITY.

0280 WAHYUDIN, E. [Analysis of nutrients content of red tilapia (*Oreochromis niloticus*)]. Analisis kandungan gizi ikan nila merah/Wahyudin, E.; Puspitasari, A.; Sutomo (Balai Penelitian Perikanan Air Tawar, Sukamandi (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 36-41 1 table; 5 ref.

OREOCHROMIS NILOTICUS; PROTEIN CONTENT; MOISTURE CONTENT; LIPID CONTENT; ASH CONTENT; CRUDE FIBRE.

0281 WILDAN, F. [Comparison of fat extraction methods for long fatty acid analysis]. Perbandingan metode ekstraksi lemak untuk analisis asam lemak rantai panjang/Wildan, F.; Darmasih (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 44-48 2 tables; 2 ref.

MILK FAT; FATTY ACIDS; EXTRACTION.

#### **Q52 FEED PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN PAKAN**

0282 HAMID, H. [Change of protein content during the fermentation process of cashew wastes using *Aspergillus niger*]. Perubahan kadar protein pada proses fermentasi limbah jambu mete dengan *Aspergillus niger*/Hamid, H. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 38-43 3 tables; 5 ref.

ANACARDIUM OCCIDENTALE; PROTEIN CONTENT; AGRICULTURAL WASTES; FERMENTATION; ASPERGILLUS NIGER.

0283 KUSHARTONO, B. [Factors affecting of pellet forming]. Faktor-faktor yang dapat mempengaruhi proses pembentukan pellet/Kushartono, B. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 63-66 4 ref.

PELLETS; PROCESSING; FEEDS; INGREDIENTS.

0284 PANJAITAN, H. [Feed processing method]. Metode pengolahan pakan ternak/Panjaitan, H. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional

Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 52-56 5 ill.

FEEDS; PROCESSING; RUMINANTS; POULTRY.

0285 PANJAITAN, H. [Silage making technique for King grass (*Pennisetum purpureophoides*)]. Teknik pembuatan silase dengan menggunakan rumput raja (*Pennisetum purpureophoides*)/Panjaitan, H.; Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 49-51 3 ref.

PENNISETUM PURPUREUM; SILAGE PROCESSING.

#### **Q54 FEED COMPOSITION / KOMPOSISI PAKAN**

0286 ABDURACHMAN. [Preliminary experiment of protein crude analysis using Conway on soybean meal]. Percobaan pendahuluan analisis protein kasar dengan cawan Conway pada bungkil kedelai/Abdurachman; Askar, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 137-142 2 ill., 2 tables; 3 ref.

SOYBEAN MEAL; ANALYTICAL METHODS; CRUDE PROTEIN.

0287 ASKAR, S. [Determination of soluble protein in ruminants feeds]. Penentuan protein terlarut dalam pakan ternak ruminansia/Askar, S. (Balai Penelitian Ternak, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (1999) v. 4(1) p. 26-29 4 tables; 15 ref.

RUMINANTS; PROTEINS; PH; SOLUBILITY; SOLVENT; RUMEN; FEEDS; DEGRADATION; NUTRITIVE VALUE.

0288 IRIANI, N. [Variation of protein content of some green feeds]. Keragaman kandungan protein dari beberapa jenis hijauan pakan ternak/Iriani, N. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 57-60 7 ref.

PROTEIN CONTENT; LEUCAENA LEUCOCEPHALA; CALLIANDRA; GLIRICIDIA; SESBANIA GRANDIFLORA.

0289 NUGRAHA, E. [Technique of Silica analysis using HCl as solvent]. Teknik analisis silika dengan menggunakan HCl sebagai pelarut/Nugraha, E. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 76-79 2 tables; 6 ref.

ANALYTICAL METHODS; HYDROCHLORIC ACID; RICE STRAW; CHICKENS; FARMYARD MANURE.

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

0290 ANON. [Betel nut (*Areca catechu*) for export]. Bentuk pinang untuk ekspor/Anon. Buletin Informasi Pasar (Indonesia) (2000) (Jan) p. 13-15 1 table.

ARECA CATECHU; DRIED PRODUCTS; DRUG PLANTS; PROCESSED PLANT PRODUCTS; DRYING; MARKETS; EXPORTS; PAKISTAN; INDIA.

**Q70 PROCESSING OF AGRICULTURAL WASTES / PENGOLAHAN LIMBAH PERTANIAN**

0291 DJAJADININGRAT, S.T. [Zero emissions approach to cluster agroindustry with

environmental friendly]. Pendekatan nir limbah menuju agroindustri yang ramah lingkungan/Djajadiningrat, S.T. (Kantor Menteri Negara Lingkungan Hidup, Jakarta (Indonesia)). [Proceedings of the Third National Symposium on Agroindustry; Process for Achieving Added Value which Completing Agricultural Successes]. [Kumpulan] Makalah Simposium Nasional Agroindustri III, Agroindustri: Proses Nilai Tambah yang Menyempurnakan Sukses Pertanian/Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian. Bogor (Indonesia): IPB, 1997 (pt. 6) 10 p.

AGROINDUSTRIAL SECTOR; ENVIRONMENTAL CONTROL; POLLUTION CONTROL.

0292 SORMIN, R.B.D. Yield, physico-chemical characteristics, and application of chitosan produced from shrimp wastes. Rendemen, sifat fisikokimia, dan aplikasi khitosan dari limbah beberapa jenis udang/Sormin, R.B.D.; Winarno, F.G.; Assik, A.N. (Institut Pertanian Bogor (Indonesia)); Heruwati, E.S.. Jurnal Perikanan (Indonesia) ISSN 0853-6384 (2001) v. 3(1) p. 9-16 3 tables; 22 ref. Summary (En)

PRAWNS AND SHRIMPS; AGRICULTURAL WASTES; CHITOSAN; CHITIN; PROCESSING; CHEMICAL COMPOSITION; PROXIMATE COMPOSITION; CHEMICO-PHYSICAL PROPERTIES.

0293 SUMANTRI. [Super compost processing using EM4 technology]. Pembuatan pupuk kompos super dengan teknologi EM4/Sumantri (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 118-120 2 ref.

COMPOSTS; FERTILIZERS; PROCESSING; LACTOBACILLUS; ACTINOMYCETALES; YEASTS.

0294 SURYANTO, F.H. [Compost processing from organic waste]. Pembuatan kompos dari sampah organik/Suryanto, F.H. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceeding of Non Researcher Workshop]. Prosiding Lokakarya Fungsional Non Peneliti/Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 1999 p. 113-117 2 ref.

COMPOSTS; PROCESSING; ORGANIC WASTES

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

0295 ANON. [Packaging of horticultural product]. Pengemasan komoditas agroindustri hortikultura/Anon.. [Proceedings of the National Seminar of Horticultural Agroindustry: its opportunity and constraint]. [Kumpulan makalah] Seminar Nasional Pengembangan Usaha Agroindustri Hortikultura: peluang dan tantangan/Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 1999 (pt. 5) p. 1-19 7 ill., 4 tables; 7 ref. Summary (In)

FRUIT; VEGETABLES; FLOWERS; HORTICULTURE; PACKAGING; PACKAGING MATERIALS; CONTROLLED ATMOSPHERE STORAGE; TRANSPORT.

### **T01 POLLUTION / POLUSI**

0296 LASUT, M.T. Pollution in marine coastal environment: A. consideration for designing sustainable development of marine resources/Lasut, M.T.; Kumurur, V.A. (Universitas Sam Ratulangi, Manado (Indonesia)). Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam (2001) v. 1(1) p. 22-28 11 ref. Summary (En)

INDONESIA; MARINE ENVIRONMENT; COASTAL WATERS; ENVIRONMENTAL DEGRADATION; POLLUTION; POLLUTANTS; INDUSTRIAL WASTES; MARINE RESOURCES.

0297 POLII, B. [Metal and cyanida pollution status in Buyat Strait water and surrounding, Province of Sulawesi in 1999 (Indonesia)]. Status pencemaran logam dan sianida di perairan Teluk Buyat dan sekitarnya, Propinsi Sulawesi Utara tahun 1999/Polii, B.; Waworuntu-W, L.A.J.; Kumurur, V.A.; Lasut, M.T. (Universitas Sam Ratulangi, Manado (Indonesia)); Simanjuntak, H.. Ekoton (Indonesia): Jurnal Lingkungan Hidup dan Sumberdaya Alam (2001) v. 1(1) p. 14-21 2 tables; 29 ref. Summary (In)

SULAWESI; AQUATIC ENVIRONMENT; POLLUTION; HEAVY METALS; ARSENIC; CADMIUM; IRON; MERCURY; CYANIDES; ENVIRONMENTAL IMPACT.

0298 SUNARKO, B. Degradation of acetonitrile with immobilized cells of corynebacterium UBT 9. Degradasi asetonitril dengan sel imobil corynebacterium UBT 9/Sunarko, B. (Lembaga Ilmu Pengetahuan Indonesia. Balai Penelitian dan Pengembangan Mikrobiologi, Bogor (Indonesia)). Jurnal Biologi Indonesia (Indonesia) ISSN 0854-4427 (1998) v. 2(2) p. 73-82 8 ill., 9 ref. Summaries (En, In). Appendix

CORYNEBACTERIUM; DEGRADATION; IMMOBILIZATION; CELLS; ENZYMES; BIOCATALYSTS; MICROORGANISMS; PH.

0299 WINARNO, H. [Degradation of organic pollutant with UV ray]. Penguraian pencemar organik menggunakan sinar UV/Winarno, H.; Katrin W., E. (Pusat Aplikasi Isotop dan Radiasi, Jakarta (Indonesia)). Buletin Batan (Indonesia) ISSN 0216-3293 (1997) v. 18(2) p. 34-43 2 tables; 19 ref. Summary (In)

ORGANIC WASTES; POLLUTANTS; ULTRAVIOLET RADIATION; DEGRADATION.

### **U30 RESEARCH METHODS / METODE PENELITIAN**

0300 GOENADI, D.H. [Experience in obtaining research patent right]. Pengalaman

dalam mendapatkan hak paten penelitian/  
Goenadi, D.H. (Unit Penelitian Bioteknologi  
Perkebunan, Bogor (Indonesia)). [Proceedings  
on Technical Workshop of Fisheries Research  
and Development Center]. Kumpulan Makalah  
Rapat Kerja Teknis Puslitbang Perikanan/Pusat

Penelitian dan Pengembangan Perikanan,  
Jakarta (Indonesia). Jakarta (Indonesia):  
PUSLITBANGKAN, 1999 (pt. 3) 32 p. 1 ill., 3  
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| 0001, 0034, 0271        | 0172, 0173, 0175        | 0181, 0190, 0196, 0198  |
| AGRICULTURAL            | ANIMAL HUSBANDRY        | ARTIFICIAL REEFS        |
| SITUATION               | 0006, 0044, 0050, 0162, | 0225                    |
| 0056                    | 0169, 0170              | ASCLEPIADACEAE          |
| AGRICULTURAL            | ANIMAL MORPHOLOGY       | 0120,                   |
| WASTES                  | 0124, 0144, 0197        | ASH CONTENT             |
| 0073, 0082, 0282, 0292  | ANIMAL                  | 0280                    |
| AGRICULTURE             | PERFORMANCE             | ASPERGILLUS NIGER       |
| 0097                    | 0163                    | 0282                    |
| AGROBACTERIUM           | ANIMAL PHYSIOLOGY       | AUSTRALIA               |
| TUMEFACIENS             | 0202, 0209              | 0061                    |
| 0096                    | ANIMAL PRODUCTION       | AZADIRACHTA             |
| AGROECOSYSTEMS          | 0038                    | 0122                    |

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0112, 0113, 0121, 0125,  
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- BACTERIAL SPORES  
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0111, 0168, 0174, 0176,  
0178, 0181, 0186, 0188,  
0189, 0193, 0209, 0212,  
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| CLARIAS GARIEPINUS      | 0210                    | 0287, 0298, 0299        |
| 0144                    | CORYNEBACTERIUM         | DELPHINUS               |
| CLAY SOILS              | 0298                    | 0214                    |
| 0269                    | COST ANALYSIS           | DENDROBIUM              |
| CLIMATE                 | 0036, 0167, 0237        | 0066, 0071              |
| 0009, 0032, 0100, 0271  | COSTS                   | DERMOCHELYS             |
| 0272                    | 0029, 0041, 0231        | 0230                    |
| CLIMATIC FACTORS        | CREDIT                  | DEVELOPMENT             |
| 0078, 0274              | 0014                    | POLICIES                |
| CLIMATIC ZONES          | CROP MANAGEMENT         | 0007, 0015, 0028, 0031, |
| 0273                    | 0088                    | 0034, 0055, 0159, 0224, |
| CLIMATOLOGY             | CROP ROTATION           | 0238                    |
| 0106                    | 0132                    | DEVELOPMENTAL           |
| COAGULATION             | CROPPING PATTERN        | STAGES                  |
| 0208                    | 0027                    | 0159, 0202              |
| COASTAL WATERS          | CROPPING SYSTEMS        | DIAGNOSIS               |
| 0226, 0240, 0296        | 0069, 0123              | 0090                    |
| COCOA BEANS             | CROSSBREDS              | DIARRHOEA               |
| 0140, 0141, 0279        | 0159, 0188              | 0219                    |
| COCOS NUCIFERA          | CROSSBREEDING           | DIFFUSION OF            |
| 0033, 0072, 0088, 0101, | 0163, 0193, 0198        | INFORMATION             |
| 0102                    | CRUDE FIBRE             | 0001                    |
| COFFEA                  | 0280                    | DIMENSIONS              |
| 0037, 0128              | CRUDE PROTEIN           | 0209                    |
| COFFEA ARABICA          | 0286                    | DIRECT SOWING           |
| 0076                    | CRUSTACEA               | 0068                    |
| COLEOPTERA              | 0240                    | DISEASE CONTROL         |
| 0199                    | CRYOPROTECTANS          | 0048, 0075, 0097, 0123, |
| COMMUNAL FORESTS        | 0208                    | 0131, 0133, 0134, 0135, |
| 0146                    | CRYSTALIZATION          | 0161, 0221, 0237        |
| COMMUNITIES             | 0104                    | DISEASE RESISTANCE      |
| 0150, 0153              | CULTIVATED LAND         | 0075, 0089, 0091, 0093, |
| COMPOSTS                | 0011                    | 0095, 0099, 0102        |
| 0082, 0293, 0294        | CULTIVATION             | DIVERSIFICATION         |
| CONCENTRATES            | 0029, 0033, 0068, 0069, | 0021, 0170              |
| 0212                    | 0075, 0080, 0120, 0123, | DNA                     |
| CONSERVATION            | 0165, 0248              | 0207                    |
| 0257                    | CULTURE MEDIA           | DOMESTIC                |
| CONSTRAINTS             | 0074                    | PRODUCTION              |
| 0224, 0247              | CURCUMA                 | 0030                    |
| CONSUMPTION             | 0118                    | DOMINANT SPECIES        |
| 0069, 0188              | CUT FLOWERS             | 0241                    |
| CONTAMINATION           | 0071                    | DOSAGE                  |
| 0277                    | CYANIDES                | 0223                    |
| CONTROLLED              | 0297                    | DOSAGE EFFECTS          |
| ATMOSPHERE              | CYCLING                 | 0084                    |
| STORAGE                 | 0256                    | DRIED PRODUCTS          |
| 0139, 0295              | CYTOLOGY                | 0290                    |
| COOPERATIVE             | 0120                    | DROUGHT STRESS          |
| ACTIVITIES              | <b>D</b>                | 0110                    |
| 0042, 0158              | DAIRY CATTLE            | DRUG PLANTS             |
| CORAL REEFS             | 0191, 0209              | 0109, 0114, 0115, 0290  |
| 0105, 0225, 0254        | DAPHNIA                 | DRUG RESISTANCE         |
| CORN                    | 0107                    | 0219                    |
| 0249                    | DEGRADATION             | DRUGS                   |
| CORPUS LUTEUM           |                         | 0116, 0177              |

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| DRY FARMING             | 0211                    | 0230                    |
| 0048, 0081, 0086, 0106  | EGG PRODUCTION          | ERWINIA                 |
| DRY SEASON              | 0166, 0167, 0183, 0185, | CAROTOVORA              |
| 0171, 0176              | 0188                    | 0131                    |
| DRYER                   | EGGS                    | ESCHERICHIA COLI        |
| 0249                    | 0168                    | 0211, 0219, 0221        |
| DRYING                  | EICHHORNIA              | ETHANOL                 |
| 0065, 0249, 0290        | CRASSIPES               | 0111, 0129              |
| DUCKS                   | 0241                    | EUTROPHICATION          |
| 0164, 0166, 0167, 0208, | EJACULATION             | 0011, 0241              |
| 0211                    | 0181, 0189              | EVALUATION              |
| <b>E</b>                | ELAEIS GUINEENSIS       | 0126, 0152              |
| ECHINACEA               | 0262                    | EVAPOTRANSPIRATION      |
| 0109                    | ELECTRICITY             | 0272                    |
| ECOLOGICAL              | 0246                    | EXPORT PROMOTION        |
| SUCCESSION              | EMBRYO TRANSFER         | 0231                    |
| 0242                    | 0182                    | EXPORTS                 |
| ECOLOGY                 | EMBRYONIC               | 0054, 0060, 0061, 0062, |
| 0037, 0120, 0239, 0242, | DEVELOPMENT             | 0067, 0070, 0290        |
| 0245, 0273              | 0182                    | EXTENSION               |
| ECONOMIC ANALYSIS       | ENDEMIC                 | ACTIVITIES              |
| 0012, 0013, 0027, 0029, | 0089, 0216              | 0001, 0049              |
| 0069, 0086              | ENDOSULFAN              | EXTRACTION              |
| ECONOMIC                | 0128, 0223              | 0281                    |
| COMPETITION             | ENERGY RESOURCES        | EXTRACTS                |
| 0052                    | 0105                    | 0108, 0111, 0112, 0113, |
| ECONOMIC CRISES         | ENGINEERING             | 0121, 0122, 0126, 0129, |
| 0034                    | 0250                    | 0200                    |
| ECONOMIC                | ENTEROBACTER            |                         |
| DEVELOPMENT             | 0211                    | <b>F</b>                |
| 0047, 0063              | ENTERPRISES             | FAECES                  |
| ECONOMIC                | 0008                    | 0111, 0178, 0200        |
| DISTRIBUTION            | ENVIRONMENT             | FARM                    |
| 0170                    | 0026, 0194              | 0038                    |
| ECONOMIC                | ENVIRONMENTAL           | FARM EQUIPMENT          |
| INDICATORS              | CONTROL                 | 0065, 0248, 0249, 0251  |
| 0008                    | 0049, 0291              | FARM INCOME             |
| ECONOMIC SECTOR         | ENVIRONMENTAL           | 0033, 0050, 0070, 0086, |
| 0020                    | DEGRADATION             | 0087, 0088              |
| ECONOMIC SITUATION      | 0296                    | FARM INPUTS             |
| 0152                    | ENVIRONMENTAL           | 0048                    |
| ECONOMIC VALUE          | FACTORS                 | FARM MANAGEMENT         |
| 0008, 0153              | 0255                    | 0075, 0088              |
| ECOSYSTEMS              | ENVIRONMENTAL           | FARM STRUCTURE          |
| 0105, 0256              | IMPACT                  | 0162                    |
| EDIBLE FUNGI            | 0037, 0297              | FARMING SYSTEMS         |
| 0064, 0248              | ENVIRONMENTAL           | 0035, 0036              |
| EDUCATIONAL             | PROTECTION              | FARMLAND                |
| INSTITUTIONS            | 0253                    | 0199                    |
| 0049                    | ENZYMES                 | FARMS                   |
| EFFICIENCY              | 0298                    | 0013                    |
| 0080, 0088, 0274        | EPINEPHELUS             | FARMYARD MANURE         |
| EGG HATCHABILITY        | 0233, 0236              | 0289                    |
| 0183                    | EQUIPMENT               | FATTENING               |
| EGG INCUBATION          | 0065, 0074              | 0031, 0178              |
|                         | ERETMOCHELYS            |                         |

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| FATTY ACIDS             | FISHERIES               | INDUSTRY          |
| 0281                    | DEVELOPMENT             | 0150              |
| FAUNA                   | 0228, 0231, 0232        | FOREST PROTECTION |
| 0119, 0256, 0257        | FISHERMEN               | 0253, 0254        |
| FEED CONVERSION         | 0231                    | FOREST RESOURCES  |
| EFFICIENCY              | FISHERY PRODUCTION      | 0146, 0156, 0157  |
| 0166, 0188, 0236        | 0231                    | FOREST SOILS      |
| FEED CROPS              | FISHES                  | 0003, 0005        |
| 0171                    | 0195, 0213, 0234, 0235, | FORESTRY          |
| FEED INTAKE             | 0238                    | 0151, 0155, 0157  |
| 0200                    | FISHING GROUNDS         | FORESTRY          |
| FEED MEALS              | 0225                    | DEVELOPMENT       |
| 0216                    | FISHING METHODS         | 0019, 0149        |
| FEED PRODUCTION         | 0258                    | FORESTRY          |
| 0179                    | FLAVONOIDS              | MANAGEMENT        |
| FEEDING                 | 0108, 0110              | 0147, 0158        |
| 0161                    | FLOODED RICE            | FORESTRY POLICIES |
| FEEDING FREQUENCY       | 0068                    | 0146, 0150, 0155  |
| 0180                    | FLORA                   | FORESTRY          |
| FEEDING HABITS          | 0256, 0257              | PRODUCTION        |
| 0121, 0200              | FLOWERING               | 0147, 0150, 0158  |
| FEEDS                   | 0066, 0102, 0117        | FORESTRY PRODUCTS |
| 0006, 0031, 0163, 0166, | FLOWERS                 | 0157              |
| 0167, 0174, 0176, 0177, | 0295                    | FORESTS           |
| 0178, 0179, 0234, 0252, | FOENICULUM              | 0105, 0254        |
| 0283, 0284, 0287        | VULGARE                 | FRANCE            |
| FERMENTATION            | 0116                    | 0060              |
| 0176, 0252, 0282        | FOOD CONSUMPTION        | FRESHWATER        |
| FERMENTERS              | 0044, 0169, 0170        | ECOLOGY           |
| 0252                    | FOOD CROPS              | 0244              |
| FERTILITY               | 0013, 0023              | FROG CULTURE      |
| 0208                    | FOOD HYGIENE            | 0060              |
| FERTILIZER              | 0277                    | FROGS             |
| APPLICATION             | FOOD POLICIES           | 0060              |
| 0058, 0081, 0084        | 0169                    | FRUCTOSE          |
| FERTILIZER              | FOOD SAFETY             | 0116              |
| COMBINATIONS            | 0277                    | FRUIT             |
| 0081                    | FOOD SECURITY           | 0062, 0295        |
| FERTILIZERS             | 0006, 0007, 0015, 0044, | FRUIT CROPS       |
| 0116, 0293              | 0169, 0170, 0215, 0231  | 0023              |
| FINANCING               | FOOD SUPPLY             | FRUIT PRODUCTS    |
| 0014, 0059              | 0044, 0170              | 0139              |
| FISH CULTURE            | FOODS                   | FUELS             |
| 0224, 0232, 0236, 0237  | 0277                    | 0246              |
| FISH DISEASES           | FORECASTING             | FUMIGATION        |
| 0220, 0234              | 0154                    | 0141              |
| FISH FARM               | FOREST ECOLOGY          | FUSARIUM          |
| 0235                    | 0105                    | OXYSPORUM         |
| FISH FEEDING            | FOREST LAND             | 0075, 0091        |
| 0233, 0235, 0237        | 0148, 0153, 0158        |                   |
| FISH LARVAE             | FOREST MANAGEMENT       | <b>G</b>          |
| 0233                    | 0020, 0146, 0148, 0149, | GENE TRANSFER     |
| FISH PROCESSING         | 0150, 0156              | 0092              |
| 0143                    | FOREST PRODUCTS         | GENERA            |
| FISH PRODUCTS           | 0152, 0156              | 0240              |
| 0275                    | FOREST PRODUCTS         |                   |

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| GENETIC                 | 0226                    | IMMUNE SERUM            |
| CORRELATION             | HABITATS                | 0090                    |
| 0192                    | 0120, 0199, 0243, 0255  | IMMUNODIAGNOSIS         |
| GENETIC ENGINEERING     | HARVESTING              | 0217                    |
| 0004                    | 0065, 0138, 0237, 0249  | IMPORTS                 |
| GENETIC MARKERS         | HARVESTING DATE         | 0054, 0062, 0179        |
| 0207                    | 0064                    | IN VITRO CULTURE        |
| GENETIC PARAMETERS      | HATCHERIES              | 0182                    |
| 0191, 0192              | 0233, 0234, 0238        | IN VITRO                |
| GENETICS                | HATCHING                | FERTILIZATION           |
| 0024, 0194, 0195, 0197  | 0161, 0211              | 0182                    |
| GENOTYPES               | HEAVY METALS            | INDIA                   |
| 0205                    | 0297                    | 0090, 0093, 0290        |
| GEOGRAPHICAL            | HELOPELTIS ANTONII      | INDONESIA               |
| DISTRIBUTION            | 0122                    | 0001, 0002, 0014, 0015, |
| 0069, 0120, 0214, 0241  | HEMIPTERA               | 0016, 0017, 0018, 0031, |
| GERMPLASM               | 0199                    | 0034, 0040, 0069, 0090, |
| 0063, 0090              | HERBICIDES              | 0093, 0095, 0106, 0124, |
| GLADIOLUS               | 0136                    | 0132, 0151, 0155, 0160, |
| 0091                    | HERITABILITY            | 0170, 0190, 0215, 0224, |
| GLIRICIDIA              | 0192                    | 0226, 0232, 0238, 0239, |
| 0288                    | HIBISCUS SABDARIFFA     | 0240, 0244, 0296        |
| GLIRICIDIA SEPIUM       | 0114                    | INDUSTRIAL CROPS        |
| 0180                    | HIGH YIELDING           | 0009                    |
| GLYCINE MAX             | VARIETIES               | INDUSTRIAL WASTES       |
| 0096, 0136              | 0072, 0094, 0098, 0104  | 0267, 0296              |
| GLYPHOSATE              | HONGKONG                | INFECTION               |
| 0223                    | 0061                    | 0089, 0093, 0095        |
| GNETUM GNEMON           | HORTICULTURE            | INFORMATION             |
| 0029                    | 0002, 0014, 0016, 0295  | SYSTEMS                 |
| GOATS                   | HUMAN RESOURCES         | 0002                    |
| 0031, 0159, 0202, 0206, | 0005, 0021, 0049, 0051, | INGREDIENTS             |
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| 0100                    | 0091                    | 0096                    |
| GRADING                 | HYBRIDS                 | INNOVATION              |
| 0138                    | 0072, 0101, 0102, 0184  | 0045, 0300              |
| GRAFTING                | HYDRILLA                | INOCULATION             |
| 0078, 0079              | VERTICILLATA            | 0064                    |
| GRANDIS                 | 0241                    | INORGANIC               |
| 0047                    | HYDROCHLORIC ACID       | FERTILIZERS             |
| GROWING MEDIA           | 0289                    | 0080                    |
| 0064                    | HYDROPONICS             | INSECTA                 |
| GROWTH                  | 0073                    | 0126                    |
| 0077, 0081, 0083, 0084, | HYMENOPTERA             | INSECTICIDES            |
| 0085, 0106, 0107, 0118, | 0199                    | 0128, 0141              |
| 0126, 0136, 0176, 0210, | HYPOTHENEMUS            | INSTITUTIONS            |
| 0235, 0251, 0273        | HAMPEI                  | 0016, 0025, 0155        |
| GROWTH PERIOD           | 0128                    | INTEGRATED PEST         |
| 0064                    |                         | CONTROL                 |
| GROWTH RATE             | <b>I</b>                | 0127                    |
| 0163, 0193, 0212, 0236  | IDENTIFICATION          | INTEGRATED PEST         |
| <b>H</b>                | 0124, 0199, 0211, 0220  | MANAGEMENT              |
| HABITAT                 | IMMOBILIZATION          | 0132                    |
| IMPROVEMENT             | 0298                    | INTENSIVE FARMING       |
|                         |                         | 0167                    |



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| INTENSIVE               | 0045                    | LOWLAND                 |
| HUSBANDRY               | LACTATION               | 0271                    |
| 0161                    | 0174, 0201              | LYCOPERSICON            |
| INTERCROPPING           | LACTOBACILLUS           | ESCULENTUM              |
| 0027, 0033, 0086, 0087, | 0293                    | 0125                    |
| 0134                    | LAKES                   |                         |
| INTERTIDAL              | 0011, 0239, 0241, 0258  | <b>M</b>                |
| ENVIRONMENT             | LAND CLASSIFICATION     | MACADAMIA               |
| 0036                    | 0010                    | 0076                    |
| INTESTINES              | LAND DIVERSION          | MACHINERY               |
| 0200                    | 0030                    | 0065                    |
| INTRODUCED              | LAND MANAGEMENT         | MACROBRACHIUM           |
| VARIETIES               | 0010                    | ROSENBERGII             |
| 0094                    | LAND SUITABILITY        | 0220                    |
| IRIAN JAYA              | 0009, 0010, 0012, 0078  | MAGNESIUM               |
| 0032, 0119, 0243        | LAND USE                | 0222                    |
| IRON                    | 0011, 0013, 0026, 0030, | MALAYSIA                |
| 0297                    | 0257, 0258              | 0060                    |
| IRRIGATED LAND          | LANSIUM                 | MANAGEMENT              |
| 0100                    | DOMESTICUM              | 0057, 0227              |
| IRRIGATED RICE          | 0079                    | MANGANESE               |
| 0251                    | LARVAE                  | 0267                    |
| IRRIGATION SYSTEMS      | 0113, 0125, 0129        | MANGOES                 |
| 0074                    | LAW                     | 0063                    |
| ISOLATION               | 0017                    | MANGROVES               |
| TECHNIQUES              | LAYER CHICKENS          | 0153, 0254              |
| 0211, 0217, 0218        | 0173, 0185              | MARINE ECOLOGY          |
|                         | LEAVES                  | 0105                    |
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| JAPAN                   | 0125, 0126, 0129, 0133, | ENVIRONMENT             |
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| 0047, 0154, 0166, 0191, | LEPIDOPTERA             | MARINE RESOURCES        |
| 0216, 0257, 0259, 0270, | 0199                    | 0296                    |
| 0273, 0278              | LEPIDOSAPHE             | MARKET RESEARCH         |
| JOB PERFORMANCE         | 0230                    | 0038                    |
| 0051                    | LEUCAENA                | MARKETING               |
|                         | LEUCOCEPHALA            | 0035, 0038, 0048, 0061  |
| <b>K</b>                | 0173, 0288              | MARKETS                 |
| KALIMANTAN              | LIBIDO                  | 0002, 0016, 0033, 0055, |
| 0036, 0148, 0157, 0235  | 0189                    | 0060, 0062, 0067, 0290  |
| KAPOK                   | LIFE CYCLE              | MATING SYSTEMS          |
| 0039                    | 0124                    | 0180                    |
| KEEPING QUALITY         | LIPID CONTENT           | MEAT                    |
| 0139                    | 0143, 0280              | 0060, 0278              |
| KENAF                   | LIQUID WASTES           | MEAT HYGIENE            |
| 0041                    | 0083, 0262              | 0221                    |
|                         | LITTER SIZE             | MEAT PRODUCTS           |
| <b>L</b>                | 0198, 0205              | 0160                    |
| LABORATORIES            | LIVER DISEASES          | MECHANIZATION           |
| 0140                    | 0115                    | 0022                    |
| LABORATORY              | LIVESTOCK               | MELIA AZEDARACH         |
| DIAGNOSIS               | 0179, 0215              | 0129                    |
| 0211                    | LOCAL GOVERNMENT        | MELOIDOGYNE             |
| LABOUR                  | 0015, 0017, 0018, 0053  | 0125                    |

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