

**Departemen Pertanian
PUSAT PERPUSTAKAAN DAN
PENYEBARAN TEKNOLOGI
PERTANIAN
Jalan Ir. H. Juanda 20, Bogor 16122,
Indonesia**

**INDEKS BIOLOGI DAN
PERTANIAN INDONESIA**

**(Indonesian Biological
and Agricultural Index)**

**Vol. 37, No. 2
Tahun 2007**



**INDEKS BIOLOGI DAN PERTANIAN
INDONESIA**

(Indonesian Biological and Agricultural
Index)

ISSN 0216-0803

Terbit sejak tahun 1969

Kata Pengantar

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Kepala Pusat Perpustakaan dan
Penyebaran Teknologi Pertanian

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

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

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

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

Alamat Redaksi :

Pusat Perpustakaan dan Penyebaran
Teknologi Pertanian
Jl. Ir. H. Juanda 20
B O G O R - 16122

Bogor, 2007

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Penyebaran Teknologi Pertanian

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EXTENSION ACTIVITIES; FARMERS; AGROINDUSTRIAL SECTOR; ENTERPRISES.

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

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RICE; FOOD SECURITY; MARKETS; TRADE; FOOD STOCKS; PRICE STABILIZATION.

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VEGETABLES; CROP MANAGEMENT; FARM MANAGEMENT; ECONOMIC

ANALYSIS; FARM INCOME; COST BENEFIT ANALYSIS; WATERSHEDS; JAVA.

304 KHUSH, G.S. Food security by design: improving the rice plant in partnership with NARS. Ketahanan pangan menurut rancangan: perbaikan tanaman padi melalui kemitraan dengan sistem penelitian pertanian Nasional/Khush, G.S. (Lembaga Internasional Penelitian Padi, Los Banos (Pilipina)). [Rice policy and innovation of rice technology]. Kebijakan perberasan dan inovasi teknologi padi/Suprihatno, B.; Soejitno, J.; Syam, M.; Makarim, A.K.; Suwandi; Widiarto, I N.; Hermanto (eds.). Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor: PUSLITBANGTAN, 2002: p. 80 47 ref.

RICE; FOOD SECURITY; PRODUCTION INCREASE; RESEARCH; PARTNERSHIPS; PLANT BREEDING; GENETIC ENGINEERING.

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KALIMANTAN; FOODS STOCKS; SELF SUFFICIENCY; TECHNOLOGY; ENVIRONMENT.

306 SUWANDI. [Regional autonomous implementation in food security]. Implementasi otonomi daerah dalam ketahanan pangan/Suwandi (Badan Urusan Ketahanan Pangan, Jakarta (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian

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PEATLANDS; LAND MANAGEMENT; VEGETABLE CROPS; FERTILIZER COMBINATIONS; YIELDS.

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KALIMANTAN; ECOSYSTEMS; LAND USE; PLANNING; MONITORING; EVALUATION.

309 MA'SHUM, M. [Strategies in agricultural resources management for environmental - based dry land farming in

West Nusa Tenggara]. Strategi pengelolaan sumberdaya pertanian lahan kering berwawasan lingkungan di Nusa Tenggara Barat/Ma'shum, M.; Lolita E.S.; Sukartono (Universitas Mataram (Indonesia)). [Proceedings of the National Seminar on the Increasing of Farmers Income through Effective Utilization of Farm Resources and Application of Proper Agricultural Technologies]. Prosiding Seminar Nasional Peningkatan Pendapatan Petani melalui Pemanfaatan Sumberdaya Pertanian dan Penerapan Teknologi Tepat Guna/Baharuddin A. B.; Puspadi, K.; Suheri, H.; Mashur; Rur, D.M.; Praptomo, D. (eds.). Mataram: BPTP Nusa Tenggara Barat, 2002: p. 36-42 1 ill., 1 table; 9 ref.

NUSA TENGGARA; DRY FARMING; AGRICULTURAL RESOURCES; WEATHER DATA; AGRONOMY; ECOSYSTEMS; ECONOMIC SOCIOLOGY; LAND MANAGEMENT.

310 MULYANI, A. [Evaluation of land availability for food crop extensification in nine provinces of Indonesia]. Evaluasi ketersediaan lahan untuk perluasan areal tanaman pangan di 9 Propinsi Indonesia /Mulyani, A.; Subardja, D.; Ritung, S. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyuardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 171-181 1 ill., 6 tables; 12 ref.

FOOD CROPS; AGRICULTURAL DEVELOPMENT; LAND SUITABILITY; LAND USE; LAND POLICIES; LAND MANAGEMENT; SOIL FERTILITY; ABANDONED LAND; RECLAMATION; EXTENSIFICATION; INTENSIFICATION; INDONESIA.

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RICE; LAND OWNERSHIP; THRESHERS; INTERTIDAL ENVIRONMENT.

312 SABIHAM, S. [Agro-input technology in peat land management]. Teknologi agro-input dalam pengelolaan lahan gambut/Sabiham, S.; Anwar, S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Proceedings on the National Workshop of Technology Innovation and Partnership of Peat Land Agriculture, Pontianak 15-16 December 2003]. Prosiding Lokakarya Nasional Inovasi Teknologi dan Kemitraan Pertanian Lahan Gambut, Pontianak 15-16 Desember 2003/Adimihardja, A.; Syukur, M.; Ibrahim, T.M.; Hatta, M. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Barat, Pontianak (Indonesia). Pontianak: BPTP Kalimantan Barat, 2004: p. 16-29 14 ref.

PEATLANDS; LAND MANAGEMENT; LAND SUITABILITY; SOIL MANAGEMENT; AGROPASTORAL SYSTEMS.

313 SALWATI. [Study of land use change impact on hydrology response Cilalawi Citarum Watersheds, West Java (Indonesia) using AGNP model]. Kajian dampak perubahan penggunaan lahan terhadap respons hidrologi sub DAS Cilalawi-DAS Citarum, Jawa Barat menggunakan model AGNPS/Salwati. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2004: 130 p.

JAVA; LAND USE; HYDROLOGY; WATERSHEDS; EROSION; SEDIMENT; RUNOFF.

314 SUBAGYO H. [Change of land use in relation to food security]. Perubahan tataguna lahan dalam kaitannya dengan ketahanan pangan/Subagyo H.; Abdurachman, A.; Djaenudin, D. (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil

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KALIMANTAN; LAND USE; FOOD RESOURCES; LAND RESOURCES; FOOD SECURITY; LABOUR.

315 SUHARTA, N. [Land for agricultural development in East Region of East Kalimantan]. Lahan untuk usaha pertanian di Kawasan Timur Kalimantan Timur/Suharta, N.; Mulyani, A.; Suwanto (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 14-17

FOOD CROPS; VEGETABLE CROPS; INDUSTRIAL CROPS; LIVESTOCK; FISHERIES; FARMING SYSTEMS; LAND SUITABILITY; DRY FARMING; WETLANDS; KALIMANTAN.

E14 DEVELOPMENT ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKAN PEMBANGUNAN

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KALIMANTAN; TIDES; PEAT SOILS; FARMING SYSTEMS; LAND; WATER MANAGEMENT.

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AGRICULTURAL DEVELOPMENT; PLANNING; ZONING; ENVIRONMENT; LAND USE; AGROCLIMATIC ZONES; KALIMANTAN.

318 CANTRELL, R.P. A walk through rice research's "field of dream". Perjalanan melintas "Ladang Impian" penelitian padi/Cantrell, R.P.; Hettel, G.P. (International Rice Research Institute, Los Banos (Philippine)). [Rice policy and innovation of rice technology]. Kebijakan perberasan dan inovasi teknologi padi/Suprihatno, B.; Soejitno, J.; Syam, M.; Makarim, A.K.; Suwandi; Widiarto, I N.; Hermanto (eds.). Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor: PUSLIT-BANGTAN, 2002: p. 19-30

ORYZA SATIVA; BREEDING METHODS; RESEARCH; MOLECULAR HYBRIDIZATION.

319 DAHONO. [Application of tampurin technology to increase soybean productivity in peat soil]. Teknologi tampurin meningkatkan produktivitas kedelai di lahan gambut/Dahono (Balai Pengkajian Teknologi Pertanian Padang Marpoyan, Riau (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 182-187 11 tables; 5 ref.

GLYCINE MAX; WATER MANAGEMENT; MICROORGANISMS; LIMING; UREA; POTASSIUM CHLORIDE; DOLOMITE; CELL CULTURE; APPROPRIATE TECHNOLOGY; AGRONOMIC CHARACTERS; YIELD COMPONENTS; PRODUCTIVITY; PEATLANDS.

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SUMATRA; AGRICULTURAL DEVELOPMENT; LAND MANAGEMENT; SUSTAINABILITY; FARMING SYSTEMS; INTERTIDAL ENVIRONMENT; APPROPRIATE TECHNOLOGY; TECHNOLOGY TRANSFER; PRODUCTIVITY.

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E16 PRODUCTION ECONOMICS / EKONOMI PRODUKSI

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

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FOOD CROPS; FRUIT CROPS; VEGETABLE CROPS; LIVESTOCK; FARMING SYSTEMS; PRODUCTION; FARM INCOME; INTERTIDAL ENVIRONMENT.

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E21 AGROINDUSTRY / AGRO-INDUSTRI

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ORYZA SATIVA; FARMING SYSTEMS; ROLE OF WOMEN; FARM INCOME; INTERTIDAL ENVIRONMENT; DECISION MAKING.

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GOSSYPIUM; COTTON; PRODUCTIVITY; QUALITY; PRICES; IMPORTS.

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MANIHOT ESCULENTA; VARIETIES; SEED; PLANTING DATE; CROPPING SYSTEMS; FERTILIZER APPLICATION; PEST CONTROL.

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ORYZA SATIVA; NPK FERTILIZERS; FLOODED LAND; SWAMP SOILS; SOIL FERTILITY; GROWTH; YIELD COMPONENTS.

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BRASSICA; NITROGEN FERTILIZERS; ORGANIC FERTILIZERS; APPLICATION RATES; DRY FARMING; GROWTH; YIELDS.

417 SYAMSUDDIN. [Use of organic matter on rice as alternative fertilizers in Merauke]. Pemanfaatan bahan organik sebagai pupuk alternatif pada tanaman padi di Merauke/Syamsuddin; Atekan (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia)). [Proceedings of the Agricultural Technology Recommendation in Papua]. Prosiding Rekomendasi Paket Teknologi Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah, 2003: p. 30-32 2 tables; 8 ref.

ORYZA SATIVA; VARIETIES; ORGANIC FERTILIZERS; RICE STRAW; RICE HUSKS; ASHES; FARMYARD MANURE; FERTILIZER APPLICATION; SOIL CHEMICOPHYSICAL PROPERTIES; SOIL CONDITIONERS; APPLICATION RATES; IRIAN JAYA.

418 WIHARDJAKA, A. [N-N₂O losses and efficiency of N fertilizers on rainfed rice]. Kehilangan N-N₂O dan efisiensi pemupukan N pada padi sawah tadah hujan/Wihardjaka, A.; Indratin (Loka Penelitian Pencemaran Lingkungan Pertanian, Jakenan (Indonesia)). [[Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar

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ORYZA SATIVA; RAINFED FARMING; NITROGEN FERTILIZERS; EFFICIENCY; NITRIFICATION; DENITRIFICATION; SLOW RELEASE FERTILIZERS; GROWTH; YIELDS.

F06 IRRIGATION / IRIGASI

419 JULIARDI, I. [Contribution of potassium nutrient from irrigation water of irrigated rice in West Java]. Sumbangan hara kalium dari air irigasi padi tanaman padi sawah di Jawa Barat/Juliardi, I. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2004) (no. 29) p. 9-11 3 tables; 9 ref.

ORYZA SATIVA; IRRIGATED RICE; IRRIGATION WATER; POTASSIUM; JAVA.

420 SARAGIH, S. [Role of damage on land productivity and yield increase of secondary crops in acid sulphate soil]. Peranan saluran kemalir terhadap peningkatan produktivitas lahan dan hasil tanaman palawija di lahan sulfat masam/Saragih, S.; Nazemi, D.; Rina, Y. (Balai Penelitian Pertanian Lahan Rawa, Banjarbaru (Indonesia)). [Proceedings of the Seminar on Research and Assessment Result of Agricultural Technology at Tidal Swamp Land]. Prosiding Seminar Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian di Lahan Pasang Surut/Sabran, M.; Ar-Riza, I.; Masganti; Utomo, B.N.; Suriansyah (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor: PSE, 2003: p. 206-213 6 ill., 1 table; 5 ref. Summary (In)

GLYCINE MAX; ARACHIS HYPOGAEA; WATER MANAGEMENT; PRODUCTIVITY; DRAINAGE; ACID SULPHATE SOILS; YIELDS; SOIL CHEMICOPHYSICAL PROPERTIES.

**F07 SOIL CULTIVATION / PENG-
OLAHAN TANAH**

421 MULYADI. [Effect of soil tillage and organic matter on mungbean yield and N₂O emission in lowland]. Pengaruh olah tanah dan bahan organik pada hasil kacang hijau dan emisi gas N₂O di lahan sawah/Mulyadi; Poniman; Sasa, I.J. (Loka Penelitian Pencemaran Lingkungan Pertanian, Jakenan (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 265-277 5 tables; 16 ref. Summary (In)

VIGNA RADIATA RADIATA; TILLAGE; ORGANIC MATTER; GASES; IRRIGATED LAND; SOIL CHEMICOPHYSICAL PROPERTIES; GROWTH; YIELDS.

422 PIRNGADI, K. [Effect of land preparation and organic fertilizer on upland rice production in rainfed land]. Persiapan lahan dan pemberian pupuk organik pada hasil padi gogo rancah di lahan sawah tadah hujan/Pirngadi, K.; Pane, H.; Noor, E.S. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 301-315 9 tables; 13 ref. Summary (In)

UPLAND RICE; ORGANIC FERTILIZERS; APPLICATION RATES; TILLAGE; RAINFED FARMING; GROWTH; YIELDS.

423 UTOMO, M. [Soil conservation processing to support food security]. Olah tanah konservasi untuk mendukung ketahanan pangan/Utomo, M. (Universitas Lampung, Bandar Lampung (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.;

Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 43-61 3 tables; 18 ref.

CONSERVATION TILLAGE; AGRO-INDUSTRIAL SECTOR; ENVIRONMENTAL DEGRADATION; SUSTAINABILITY; CULTIVATION.

**F08 CROPPING PATTERNS AND
SYSTEMS / POLA TANAM DAN
SISTEM PERTANAMAN**

424 DAHONO. [Rotational system of maize and rice in tidal land Riau]. Sistem pergiliran tanaman jagung dan padi di lahan pasang surut Inhil Riau/Dahono; Ekalinda, O.; Kardiyo; Usman; Hendri, Y.; Aris, A. (Balai Pengkajian Teknologi Pertanian Riau (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyuardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 188-192 8 tables; 9 ref.

ZEA MAYS; ORYZA SATIVA; CROP ROTATION; LAND USE; INTERTIDAL ENVIRONMENT; YIELD INCREASES; FARM INCOME; COST BENEFIT ANALYSIS; SUMATRA.

425 DINAS PERTANIAN DAN KEHUTANAN KABUPATEN LAMONGAN. [Opportunity, constraint, and challenge of Lamongan Regency as rainfed cotton development center in East Java]. Peluang, kendala, dan tantangan Kabupaten Lamongan sebagai sentra pengembangan kapas lahan sawah tadah hujan di Jawa Timur/Dinas Pertanian dan Kehutanan Kabupaten Lamongan (Indonesia). [Proceedings on the Workshop of Cotton Development in Regional Autonomous]. Prosiding Lokakarya Pengembangan Kapas dalam rangka Otoda/Soebandrijo; Subiyakto; Gothama, A.A.A.; Mukani (eds.). Pusat Penelitian dan Pengembangan Perkebunan, Bogor (Indonesia). Bogor: PUSLITBANGBUN, 2004: p. 18-23 2 tables

GOSSYPIMUM; RAINFED FARMING; MULTIPLE CROPPING; GLYCINE MAX;

ORYZA SATIVA; CROP ROTATION;
JAVA.

426 PIRNGADI, K. [Monoculture planting method for upland rice]. Cara tanam monokultur padi gogo/Pirngadi, K.; Rustiadi, T.; Toha, H.M. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2003) (no. 28) p. 9-10 1 table; 3 ref

ORYZA SATIVA; UPLAND RICE;
CROPPING SYSTEMS; MONOCULTURE;
YIELDS.

427 PURBA, R. [Development of oil palm (*Elaeis guineensis* Jacq.) and teak (*Tectona grandis*) intercropping system]. Pengembangan pola tanam intercropping kelapa sawit (*Elaeis guineensis* Jacq.) dan Jati (*Tectona grandis*)/Purba, R. (Pusat Penelitian Kelapa Sawit, Medan (Indonesia)); Jayusman; Poeloengan, Z. [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa sawit-Sapi Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 167-174 3 ill., 9 ref.

ELAEIS GUINEENSIS; INTERCROPPING;
TECTONA GRANDIS; AGROFORESTRY.

428 SETYORINI, D. Research on increasing of land productivity through organic farming technology. Penelitian peningkatan produktivitas lahan melalui teknologi pertanian organik/Setyorini, D.; Subowo; Husnain. Balai Penelitian Tanah, Bogor (Indonesia). Bogor: Balai Penelitian Tanah, 2003: 68 p.

HORTICULTURE; ORGANIC AGRICULTURE; LAND PRODUCTIVITY; SOIL FERTILITY; ORGANIC FERTILIZERS; BOTANICAL PESTICIDES; TECHNOLOGY TRANSFER.

429 WARDIANA, E. [Catch crops among oil palm plantation]. Tanaman sela diantara per-tanaman kelapa sawit/Wardiana, E.; Mahmud, Z. (Loka Penelitian Tanaman Sela

Perkebun-an, Sukabumi (Indonesia)). [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa Sawit-Sapi Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 175-186 5 tables; 22 ref.

ELAEIS GUINEENSIS; INTERCROPPING;
CATCH CROPPING; FOOD CROPS;
PLANTATIONS; HORTICULTURE;
ECONOMIC ANALYSIS.

430 YUSRON, M. [Utilization of young oil palm land by medicinal roots as catchcrops]. Pemanfaatan lahan pada kelapa sawit muda dengan temu-temuan sebagai tanaman sela/Yusron, M.; Januwati, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa sawit-Sapi, Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 199-210 6 tables; 29 ref.

ELAEIS GUINEENSIS; PLANTATIONS;
DRUG PLANTS; SPICE CROPS; INTERCROPPING; CATCH CROPPING.

F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN

431 ADIE, M.M. [Panderman big seed soybean varieties and resistant to lodging]. Panderman varietas kedelai berbiji besar dan tahan rebah/Adie, M.M.; Susanto, G.W.A. (Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2004) (no. 29) p. 7-9 2 tables; 4 ref.

GLYCINE MAX; LODGING RESISTANCE;
YIELDS; CROPS PERFORMANCE.

432 AKUBA, R.H. Jepara Tall (JPT). Dalam Jepara (DJA)/Akuba, R.H. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 112-116 4 ill., 4 ref. COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; HISTORY; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; YIELD COMPONENTS.

433 AKUBA, R.H. Takome Tall (TKT). Dalam Takome (DTE)/Akuba, R.H. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 71-75 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; DROUGHT; DISEASES RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

434 AZZAHRA, F. [Agronomical performance of selected rice lines at tidal swampy land of South Kalimantan]. Penampilan sifat-sifat agronomi galur-galur padi terpilih di lahan rawa pasang surut Kalimantan Selatan/Azzahra, F.; Sutami; Hamijaya, M.Z. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 214-218 3 ref. Appendix

ORYZA SATIVA; VARIETIES; FLOODED RICE; HIGH YIELDING VARIETIES; TIDES; KALIMANTAN.

435 BASWARSATI. [Genotype variation and improvement of shallot varieties in Indonesia]. Keragaman genotipe dan perbaikan varietas bawang merah di Indonesia/Baswarsati (Balai Penelitian Teknologi Pertanian Jawa Timur (Indonesia)). Buletin Teknologi dan Informasi Pertanian (Indonesia) ISSN 1410-8976 (2003) v. 6 p. 1-18 13 tables; 32 ref.

ALLIUM ASCALONICUM; GENOTYPES; HYBRIDIZATION; GERMPLASM COLLECTION; ADAPTATION; PEST RESISTANCE; DISEASE RESISTANCE; GLOMERELLA CINGULATA; SPODOPTERA EXIGUA; ALTERNARIA PORRI.

436 DIREKTORAT JENDERAL BINA PRODUKSI TANAMAN PANGAN. [Guidance of adaptation test and varieties release observation on food crops]. Pedoman uji adaptasi dan observasi dalam rangka pelepasan varietas tanaman pangan/Direktorat Jenderal Bina Produksi Tanaman Pangan, Jakarta (Indonesia). Jakarta: Ditjen. Bina Produksi Tanaman Pangan, 2003: 14 p.

FOOD CROPS; VARIETIES; ADAPTATION; TESTING; BREEDERS SEED; AGRONOMIC CHARACTERS.

437 EFFENDI, K. [Novelty clones of carnation with standard type]. Klon-klon novelty anyelir tipe standar/Effendi, K. (Balai Penelitian Tanaman Hias, Segunung (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 18-20 1 ill., 2 tables

DIANTHUS CARYOPHYLLUS; CLONES; PLANT PROPAGATION; PRODUCTIVITY; AGRONOMIC CHARACTERS; SEEDLINGS.

438 HUMAIRIE, R. [Adaptation and acceptability of rice lines at potential tidal land]. Adaptasi dan akseptabilitas galur-galur padi di lahan pasang surut potensial/Humairie, R.; Saleh, M. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah,

T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 208-213 6 ref. Appendices

ORYZA SATIVA; ADAPTATION; VARIETIES; TIDES.

439 KUMAUNANG, J. Bali Yellow Dwarf (BYD). Genjah Kuning Bali (GKB)/Kumaunang, J. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 11-15 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; HISTORY; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

440 KUMAUNANG, J. Sagerat Orange Dwarf (SOD). Genjah Orange Sagerat (GOS)/Kumaunang, J. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 36-40 4 ill., 2 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; ADAPTATION; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

441 LENGKEY, H.G. Nias Green Dwarf (NGD). Genjah Hijau Nias (GHN)/Lengkey, H.G. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman

Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 6-10 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

442 LENGKEY, H.G. Tebing Tinggi Dwarf (TTD). Genjah Tebing Tinggi (GTT)/Lengkey, H.G. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 26-30 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; ADAPTATION; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

443 MANGINDAAN, H.F. Bawang Tall. Dalam Bawang (DB6)/Mangindaan, H.F.. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 102-106 2 ill., 1 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; DROUGHT.

444 MANGINDAAN, H.F. Jombang Green Dwarf (JGD). Genjah Hijau Jombang (GHJ)/Mangindaan, H.F. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 46-50 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT

ANATOMY; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE.

445 MANGINDAAN, H.F. Mamuaya Tall. Dalam Mamuaya (DMA)/Mangindaan, H.F. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 122-130 4 ill., 1 ref

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; YIELD COMPONENTS.

446 MANGINDAAN, H.F. Riau Tall (RUT). Dalam Riau (DRU)/Mangindaan, H.F. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 117-121 2 ill., 2 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; HISTORY; BOTANY; PLANT ANATOMY; DROUGHT; DISEASE RESISTANCE; PEST RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

447 MASKROMO, I. Solo Tall (SOT). Dalam Solo (DSO)/Maskromo, I. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 82-86 2 ill., 1 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; YIELD COMPONENTS.

448 MIFTAHORRACHMAN. Igoduku Tall (IDT). Dalam Igoduku (DID)/Miftahorrachman. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 76-81 4 ill., 3 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; ADAPTATION; DISEASE RESISTANCE; PEST RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; YIELD COMPONENTS.

449 MIFTAHORRACHMAN. Lubuk Pakam Tall (LPT). Dalam Lubuk Pakam (DLP)/Miftahorrachman. Indonesian coconut germ-plasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 122-126 (En, In)

COCOS NUCIFERA; GERMPLASM COLLECTIONS; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; DISEASES RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; YIELD COMPONENTS.

450 MIFTAHORRACHMAN. Raja Brown Dwarf (RBD). Genjah Raja (GRA)/Miftahorrachman. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 16-20 4 ill., 4 ref.

COCOS NUCIFERA; GERMPLASM COLLECTIONS; HISTORY; GERMPLASM CONSERVATION; BOTANY; PLANT ANATOMY; DROUGHT; DISEASE RESISTANCE; ECONOMIC VALUE; PLANT BREEDING; HIGH YIELDING VARIETIES; YIELD COMPONENTS.

451 MIFTAHORRACHMAN. Sangtombolang Tall. Dalam Sangtombolang (DS6)/Miftahorrhachman. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 87-91 4 ill.

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452 NASRI, M. [Performance of sweet potato clones/varieties in production centre area]. Penampilan klon/varietas ubi jalar pada daerah sentra produksi/Nasri, M.; Yusuf, M.; Irfan, Z. (Balai Pengkajian Teknologi Pertanian Sumatera Barat, Padang (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyuardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 162-165 3 tables; 5 ref.

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453 NOVARIANTO, H. Nita Tall. Dalam Nita (DNA)/Novarianto, H. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 127-130

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454 NOVARIANTO, H. Palapi Tall. Dalam Palapi (DPI)/Novarianto, H. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.;

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455 NOVARIANTO, H. Tenga Tall (TAT). Dalam Tenga (DTA)/Novarianto, H. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 56-60 4 ill., 2 ref.

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untuk transformasi tanaman/Santosa, B. (Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumberdaya Genetik Pertanian, Bogor (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2004) (no. 29) p. 13-14 1 table; 2 ref.

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459 SUARDI K., D. [Crossing rice plant new type with wild rice]. Persilangan padi tipe baru dengan padi liar/Suardi K., D.; Ridwan, I. (Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumberdaya Genetik Pertanian, Bogor (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2004) (no. 29) p. 8-9 1 table; 3 ref.

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462 SURTIKANTI. [Response of 52 maize varieties to *Sitophilus zeamais*]. Reaksi 52 galur/varietas jagung terhadap serangan kumbang bubuk/Surtikanti; Suherman, O. (Balai Penelitian Tanaman Jagung dan Serealia, Maros (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2003) (no. 26) p. 3-4 1 table; 1 ref.

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464 SYAFRUDDIN. [Sukmaraga: high yielding variety of maize tolerant to aluminium]. Sukmaraga: varietas unggul jagung toleran aluminium/Syafuddin; Basir, M. (Balai Penelitian Tanaman Serealia, Maros (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2003) (no. 28) p. 11-13 3 tables; 4 ref

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465 SYAH, M.J.A. [High yielding varieties of avocado of Sumatra]. Varietas unggul apokat dari Sumatera/Syah, M.J.A. (Balai Penelitian Tanaman Buah, Solok (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4427 (2004) v. 26(1) p. 11-12

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467 TAMPAKE, H. Jombang Yellow Dwarf (JYD). Genjah Kuning Jombang (GKJ)/ Tampake, H.. Indonesian coconut germ-plasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 36-40 1 ill., 3 ref.

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468 TAMPAKE, H. Salak Dwarf (SKD). Genjah Salak (GSK)/Tampake, H.. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 21-25 4 ill., 5 ref.

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469 TENDA, E.T. Bali Tall (BIT). Dalam Bali (OBI)/Tenda, E.T. Indonesian coconut germ-plasms. Plasma nutfah kelapa Indonesia/

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470 TENDA, E.T. Ijobalit Tall. Dalam Ijobalit (DIT)/Tenda, E.T.. Indonesian coconut germ-plasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 107-111 2 ill., 4 ref.

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473 TISTAMA, R. [Gmali 14 and gmali 50 transcription on soybean which stressed by several metal and salt]. Transkripsi gmali 14 dan gmali 50 pada kedelai (*Glycine max* (L.) Merrill) yang mendapat cekaman beberapa logam dan garam/Tistama, R. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2003: 60 p.

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474 TULALO, M.A. Palu Tall (PUT). Dalam Palu (DPU)/Tulalo, M.A. Indonesian coconut germplasms. Plasma nutfah kelapa Indonesia/Hengky, N.; Akuba, R.H.; Tampake, H.; Bernhard, M.R.; Kumaunang, J.; Barlina, R.; Lolong, A.A.; Lay, A. (eds.). Balai Penelitian Tanaman Kelapa dan Palma Lain, Manado (Indonesia). Manado: BALITKA, 2003: p. 61-65 4 ill.

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F40 PLANT ECOLOGY / EKOLOGI TANAMAN

475 DJUFURY, F. [Model of oil palm (*Elaeis guineensis* Jacq.) phenology]. Model fenologi tanaman kelapa sawit (*Elaeis guineensis* Jacq.)/Djufury, F. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2000: 90 p.

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

477 PURWANI, E.Y. [Characteristics of thermostable chitinase enzymes isolated from thermophilic bacteria *Bacillus* sp. 13.26]. Karakteristik enzim kitinase termostabil dari bakteri termofilik *Bacillus* sp. 13.26/Purwani, E.Y. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2002: 61 p.

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478 SUKMASARI, M. [Analysis the concentration of *Orthosiphon stamineus* leaf extract water based on the fineness of the leaf flour]. Analisis kadar sari air daun kumis kucing (*Orthosiphon stamineus*) dengan perbedaan kehalusan/Sukmasari, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 116-119 2 tables; 7 ref.

LAMINACEAE; DRUG PLANTS; EXTRACTION; LEAVES; PLANT EXTRACTS; DRYING; CONCENTRATING; QUALITY; MEDICINAL PROPERTIES.

F63 PLANT PHYSIOLOGY – REPRODUCTION / FISILOGI TANAMAN - REPRODUKSI

479 HARYUDIN, W. [Some pollination techniques of vanilla flower]. Beberapa teknik penyerbukan bunga panili/Haryudin, W.; Aisyah, S.; Lukman, W. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). *Warta Balitro (Indonesia)* ISSN 0854-5324 (2002) (no. 44) p. 7-15 4 ill., 9 ref.

VANILLA PLANIFOLIA; POLLINATION; BOTANY.

H10 PESTS OF PLANTS / HAMA TANAMAN

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VIGNA RADIATA RADIATA; VARIETIES; MILDEWS; DISEASE RESISTANCE; ERYSIPHE POLYGONI; YIELDS.

481 ASIKIN, S. [Major pests and diseases of maize and its alternative control in tidal swamp land]. Hama dan penyakit utama jagung dan alternatif pengendaliannya di lahan pasang surut/Asikin, S.; Thamrin, M. [Major pests and diseases of catch crops in tidal swamp land]. Hama dan penyakit utama palawija di lahan pasang surut/Willis, M.; Susanti, M.A. (eds.). Balai Penelitian Tanaman Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru: BALITRA, 2003: p. 1-17

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482 HARNOTO. [Morphology of soybean plant resistant to bean fly (*Ophiomyia phaseoli*)]. Morfologi tanaman kedelai tahan lalat kacang/Harnoto; Asadi; Rachmat (Balai Penelitian Bioteknologi dan Sumber Daya Genetik Pertanian, Bogor (Indonesia)). *Berita Puslitbangtan (Indonesia)* ISSN 0852-6230 (2003) (no. 28) p. 13-14 1 table

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483 HOSANG, M.L.A. Interactions between natural enemies, herbivores and cacao in Palolo Valley, Central Sulawesi/Hosang, M.L.A. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2004: 129 p.

THEOBROMA CACAO; HERBIVORES; FORMICIDAE; NATURAL ENEMIES; PESTS OF PLANTS; PLANT DISEASES; AGROFORESTRY; SULAWESI.

484 ISKANDAR, M. [*Melaleuca brachytea* and *Ocimum* spp. a potential plant to control fruit fly (*Bactrocera* sp.)]. Cemara hantu dan selasih berpotensi mengendalikan lalat buah/Iskandar, M. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian (Indonesia)* ISSN 0216-4427 (2004) v. 26(1) p. 7-9 3 ill.

BACTROCERA DORSALIS; MELALEUCA; OCIMUM; DISTILLING; BIOLOGICAL CONTROL; BOTANICAL PESTICIDES.

485 KARTOHARDJONO, A. [Population dynamic of *Mythimna separata* on rice]. Dinamika populasi ulat grayak pada padi/Kartohardjono, A. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). *Berita Puslitbangtan (Indonesia)* ISSN 0852-6230 (2003) (no. 26) p. 6-7 2 ill., 1 table; 3 ref.

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486 MARYAM A. [Controlling *Jasminum* pest, *Palpita unionalis* in safety way]. Cara aman mengendalikan hama melati *Palpita unionalis*/Maryam A.; Mulyana, T. (Balai Penelitian Tanaman Hias, Cianjur (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian (Indonesia)* ISSN 0216-4427 (2004) v. 26(1) p. 4-6 1 ill., 1 table

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487 NONCI, N. [Development of *Helicoverpa armigera* eggs on maize after Nuclear polyhedrosis virus application]. Perkembangan telur penggerek tongkol jagung setelah aplikasi nuclear-polyhedrosis virus/Nonci, N. (Balai Penelitian Tanaman Serealia, Maros (Indonesia)). Berita Puslitbangtan (Indonesia) ISSN 0852-6230 (2003) (no. 26) p. 4-5 1 ill., 1 table; 3 ref.

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488 PRAYOGO, Y. [Effectivity of entomopathogen of *Riptortus linearis* (L.) (Hemiptera: Alydidae) and its impact on predator *Oxyopes javanus* Thorell (Araneida: Oxyopidae)]. Keefektifan lima jenis cendawan entomopatogen terhadap hama pengisap polong kedelai *Riptortus linearis* (L.) (Hemiptera: Alydidae) dan dampaknya terhadap predator *Oxyopes javanus* Thorell (Araneida: Oxyopidae)/Prayogo, Y. Institut Pertanian Bogor (Indonesia). Program Pasca-sarjana). Bogor: IPB, 2004: 62 p.

GLYCINE MAX; PEST INSECTS; RIPTORTUS; ENTOMOPATHOGENIC FUNGI; OXYOPES.

489 PURWANTARA, A. [NirAma important pest control of tea plant]. NirAma pengendali hama penting tanaman teh/Purwantara, A.; Widayat, W. (Unit Penelitian Bioteknologi Perkebunan, Bogor (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 2-3 1 table

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ALLIUM ASCALONICUM; INTEGRATED PEST MANAGEMENT; SPODOPTERA

EXIGUA; THRIPS; COLLETOTRICHUM; FUSARIUM; TECHNOLOGY; OUT OF SEASON.

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J11 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF PLANT PRODUCTS / PENANGANAN, TRANSPOR, PE-

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L01 ANIMAL HUSBANDRY / PETERNAKAN

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BEEF CATTLE; FATTENING; FEEDS; AGRICULTURAL WASTES; RICE STRAW; OIL PALMS.

527 WIDJAJA, E. [Palm oil cake potent as feeding supplement for cattle]. Potensi limbah kelapa sawit "solid" sebagai pakan suplemen ternak sapi/Widjaja, E.; Utomo, B.N.; Ramli, R. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 145-154 3 tables; 12 ref.

CATTLE; FEEDS; INDUSTRIAL WASTES; SOLID WASTES; PRODUCTIVITY.

528 WIDJAJA, E. [Use of local feed for chicken poultry]. Pemanfaatan pakan lokal untuk ternak ayam/Widjaja, E. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Proceedings of Socialization of Agricultural Research and Assessment of Agricultural Technology Findings in Central Kalimantan (Indonesia), Palangkaraya, 2-4 Nov 2001]. Prosiding Sosialisasi Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian Kalimantan Tengah Palangkaraya, 2-4 Nopember 2001/Sudaryanto, T.; Sadra, D.K.; Masganti; Sarwani, M.; Firmansyah, M.A.; Hastuti, A.D.; Yuli (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2001: p. 200-210 3 tables; 6 ref.

BROILER CHICKENS; FEEDS; NUTRITIONAL REQUIREMENTS; RATIONS; KALIMANTAN.

529 YUSNANDAR, M.E. [Application of complete randomized block design analysis in processing data resulted from feed experiment for mother goats]. Aplikasi analisis rancangan acak lengkap dalam pengolahan data hasil penelitian percobaan pakan ternak pada kambing induk/Yusnandar, M.E. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 106-110 2 ill., 2 tables; 3 ref. GOATS; RATIONS; FEEDS; WEIGHT GAIN; REPRODUCTIVE PERFORMANCE; EXPERIMENTATION.

530 ZAINUDDIN, D. [Utilization of tofu waste and banana peel powder in rations on the effectivity of growth phase of native chickens]. Pemanfaatan ampas tahu dan tepung kulit pisang kepek dalam ransum terhadap kinerja ayam buras fase pertumbuhan/Zainuddin, D.; Hapsari, F.N. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyuardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 322-325 5 tables; 8 ref.

CHICKENS; SOYFOODS; FOOD WASTES; BANANAS; PEEL; FLOURS; RATIONS; FEED CONSUMPTION; FEED CONVERSION EFFICIENCY; PROXIMATE COMPOSITION; WEIGHT GAIN; ECONOMIC ANALYSIS.

L10 ANIMAL GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN HEWAN

531 FAHRI, S. [Genetic variation of flying fish (*Cypselurus opisthopus*) in Mandar Bay, Tomini Bay, and Manado Bay, Sulawesi]. Keragaman genetik ikan terbang, *Cypselurus opisthopus* di perairan Teluk Mandar, Teluk Manado dan Teluk Tomini Sulawesi/Fahri, S. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2001: 73 p.

CYPSELURUS; GENETIC VARIATION; GENETIC POLYMORPHISM; GENETIC DISTANCE; SULAWESI.

532 HAKIM, L. [Breeding of local livestock]. Pembibitan ternak lokal Indonesia/Hakim, L. (Universitas Brawijaya, Malang (Indonesia). Fakultas Peternakan). [Support of breeding towards seed industry in competitive agricultural era: Proceedings of the 7th Workshop held by Indonesian Breeder Association]. Dukungan pemuliaan terhadap industri perbenihan pada era pertanian kompetitif: Prosiding Lokakarya Perhimpunan Ilmu Pemuliaan Indonesia ke-7/Kasno, A.; Arsyad, D.M.; Purnomo, J.; Kuswanto; Adie, M.M.; Anwari, M.; Nugrahaeni; Basuki, N.; Rustidja; Rahayuningsih, S.A.; Suwarso (eds.). Perhimpunan Ilmu Pemuliaan Indonesia, Malang (Indonesia). Malang: PERIPI, 2004: p. 529-538 3 ill., 17 ref.

LIVESTOCK; BREEDING METHODS; SELECTION; CROSSING OVER; GENETIC PARAMETERS; HERITABILITY; REPRODUCTIVE PERFORMANCE; INDONESIA.

533 HANDIWIRAWAN, E. [Utilization of microsatellites HEL 9 and INRA 035 as unique markers from Bali cattle]. Penggunaan mikrosatelit HEL 9 dan INRA 035 sebagai penciri khas sapi Bali/Handiwirawan, E. Institut Pertanian Bogor (Indonesia). Program Pascasarjana. Bogor: IPB, 2003: 116 p.

CATTLE; GENOTYPES; DNA; MICROSATELLITES; GENETIC RESOURCES; GENETIC MARKERS.

534 PURNAMA, R.D. [Artificial insemination for rabbits]. Teknologi kawin suntik (inseminasi buatan) pada ternak kelinci/Purnama, R.D. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 46-52 2 ill., 1 table; 9 ref.

RABBITS; ARTIFICIAL INSEMINATION; SEMEN PRESERVATION; INDUCED OVULATION; PREGNANCY DIAGNOSIS.

535 ROSSUARTINI. [Microscopic examination of feather cell structure of young rex, satin, and reza rabbit]. Pemeriksaan struktur sel beberapa jenis bulu kelinci secara spesifik /Rossuartini; Pasek, I W. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANG-NAK, 2003: p. 1-5 1 ill., 1 table; 4 ref.
RABBITS; FURBEARING ANIMALS; FEATHERS; CELL STRUCTURE; MICROSCOPY; LABORATORY EQUIPMENT.

536 SITUMORANG, P. [Increasing of reproduction efficiency through natural artificial insemination to support for breeding programme]. Peningkatan efisiensi reproduksi melalui perkawinan alam dan pemanfaatan inseminasi buatan (IB) untuk mendukung program pemuliaan/Situmorang, P.; Gede, I P. [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa Sawit-Sapi Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 103-109 21 ref.

RUMINANTS; ANIMAL BREEDING; ARTIFICIAL INSEMINATION; COPULATION; SEMEN; PRESERVATION.

537 WAHYUDI, A.T. Interse polymerase chain reaction/Wahyudi, A.T. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). Hayati (Indonesia) ISSN 0854-8587 (2000) v. 7(4) p. 121-123 3 ill., 6 ref.

PCR; MOLECULAR CLONING; DNA; RESTRICTION ENZYMES.

L52 ANIMAL PHYSIOLOGY – GROWTH AND DEVELOPMENT /

FISIOLOGI – PERTUMBUHAN DAN PERKEMBANGAN HEWAN

538 YUSRAN, M.A. [Alternative model for dairy cattle development in East Java]. Alternatif model pengembangan usaha ternak sapi perah dara di Jawa Timur/Yusran, M.A. (Balai Penelitian Teknologi Pertanian Jawa Timur (Indonesia)). Buletin Teknologi dan Informasi Pertanian (Indonesia) ISSN 1410-8976 (2003) v. 6 p. 81-96 1 ill., 11 tables; 27 ref.

DAIRY CATTLE; RATIONS; ANIMAL DEVELOPMENTAL STAGES; ANIMAL PERFORMANCE; JAVA.

L53 ANIMAL PHYSIOLOGY – REPRODUCTION / FISIOLOGI - REPRODUKSI HEWAN

539 AMIN, M.R. [Molecular mechanism of fertilization process on animals]. Mekanisme molekuler proses fertilisasi pada hewan/Amin, M.R. (Universitas Pattimura, Ambon (Indonesia). Fakultas Pertanian). Hayati (Indonesia) ISSN 0854-8587 (2000) v. 7(4) p. 117-120 3 ill., 6 ref.

ANIMALS; FERTILIZATION; MOLECULAR BIOLOGY; CHEMICAL REACTIONS.

540 PURNAMA, R.D. [Utilization of rabbit hypothalamus extract to stimulate superovulation and oestrus synchronization in rex rabbit]. Pemanfaatan ekstrak hipotalamus kelinci untuk superovulasi dan sinkronisasi estrus pada kelinci rex/Purnama, R.D. (Balai Penelitian Ternak, Bogor (Indonesia)). [[Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANG-NAK, 2003: p. 38-45 2 ill., 3 tables; 11 ref.

RABBITS; BRAIN; EXTRACTS; RELEASING HORMONES; DOSAGE; WASTE UTILIZATION; SUPEROVULATION; OESTRUS SYNCHRONIZATION; OVARIAN FOLLICLES.

541 SUMARYADI, M.Y. Relationship of the progesterone and estradiol concentrations

during pregnancy with lamb birth weight in Javanese thin-tail ewes/Sumaryadi, M.Y. (Universitas Jenderal Soedirman, Purwokerto (Indonesia). Fakultas Peternakan). *Animal Production (Indonesia)* ISSN 1411-2027 (2004) v. 6(1) p. 49-55 2 ill., 1 table; 29 ref.

EWES; PREGNANCY; PROGESTERONE; BLOOD PLASMA; OESTROGENS; BIRTH WEIGHT.

L70 VETERYNARY SCIENCE AND HYGIENE – GENERAL ASPECTS / ILMU VETERINER DAN HIGIENE - ASPEK UMUM

542 KOSASIH, Z. [Administration technique of Kalbazen vermicide for sheep in Pasiripis Village, Majalengka Regency (West Java)]. Teknik pemberian obat cacing Kalbazen pada ternak domba di Desa Pasiripis Kabupaten Majalengka/Kosasih, Z. (Balai Penelitian Veteriner, Bogor (Indonesia)) Layla, Z.; Aminah, S. [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 14-19 2 tables; 8 ref.

SHEEP; DRUGS; ANTHELMINTICS; NEMATODE INFECTIONS; DOSAGE; ANIMAL HEALTH; DISEASE CONTROL; JAVA.

L72 PESTS OF ANIMALS / HAMA PADA HEWAN

543 AMINAH, S. [Participative approach strategy used to control sheep worms in Purwakarta Regency]. Strategi penanggulangan penyakit cacing pada ternak domba melalui pendekatan partisipatif di Kabupaten Purwakarta/Aminah, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 81-87 7 ref.

SHEEP; ANTHELMINTICS; DISEASE CONTROL; FEEDING SYSTEMS; ROTATIONAL GRAZING; SUPPLEMENTS; ANIMAL HOUSING; TECHNOLOGY TRANSFER; FARMERS; PARTICIPATION.

544 KOSASIH, Z. [Larval culture method used to identify nematode species, lived in digestive tracts of small ruminants]. Metode larval culture sebagai teknik untuk mengidentifikasi jenis cacing nematoda saluran pencernaan pada ruminansia kecil/Kosasih, Z. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 74-80 1 ill., 2 tables; 8 ref.

SHEEP; GOATS; NEMATODE INFECTIONS; COOPERIA; HAEMONCHUS; OESOPHAGOSTOMUM; TRICHOSTRONGYLUS; BUNOSTOMUM; LARVAE; DIGESTIVE SYSTEM DISEASES; IDENTIFICATION.

L73 ANIMAL DISEASES / PENYAKIT HEWAN

545 BASUKI, E. Ecdysteroid levels and implications for adult reproductive development of the blowfly *Lucilia cuprina* (Wied.) (Diptera: Calliphoridae)/Basuki, E. (Universitas Jenderal Soedirman, Purwokerto (Indonesia). Fakultas Biologi). *Biosfera (Indonesia)* ISSN 0853-1625 (2004) v. 21(2) p. 74-83 5 ill., 41 ref.

SHEEP; LUCILIA CUPRINA; HORMONES; DIPTERA; CALLIPHORIDAE; PROTEINS.

546 DJAENURI [Utilization of enterotoxigenic *Escherichia coli* germplasm for multivalent vaccine to control neonatal Colibacillosis in calves and piglets]. Pemanfaatan plasma nutfah mikroba veteriner *Escherichia coli* enterotoksigenik untuk vaksin/Djaenuri (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H.

(eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 133-137 1 table; 15 ref.

CALVES; ESCHERICHIA COLI; GERM-PLASM; MICROORGANISMS; VETERINARY MEDICINE; ENTEROTOXINS; VACCINES; DISEASE CONTROL; COLIBACILLOSIS; STORAGE.

547 KURNIADHI, P. [Detection of antibody towards Infectious Bovine Rhinotracheitis in buffaloes using virus neutralization test]. Deteksi antibodi terhadap penyakit Infectious Bovine Rhinotracheitis pada kerbau dengan teknik uji netralisasi virus/Kurniadhi, P. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 165-168 10 ref.

WATER BUFFALOES, BOVINE HERPES-VIRUS; ANTIGEN ANTIBODY REACTION; ANTIBODIES; IMMUNE SERUM.

548 SOLIHAT, L. [ELISA technique using Biogal Immuno Comb kit in detection of *Neospora caninum* antibody]. Teknik ELISA dengan kit Biogal Immuno Comb untuk mendeteksi antibodi *Neospora caninum*/Solihat, L. (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 150-157 3 ill., 1 table; 20 ref.

CATTLE; CALVES; NEOSPORA CANINUM; ABORTION; ELISA; ANTIBODIES; IMMUNODIAGNOSIS.

549 SUHARYANTA. [Collection of metacercaria of *Fasciola gigantica* in

Lymnaea rubiginosa in Surade Sukabumi, West Java]. Pengambilan metaserkaria of *Fasciola gigantica* pada siput *Lymnaea rubiginosa* di Surade Sukabumi Jawa Barat/Suharyanta (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 158-163 4 tables; 14 ref.

RUMINANTS; LYMNAEA; FASCIOLA GIGANTICA; FASCIOLASIS; HELMINTHOSES; TREMATODA; JAVA.

550 SUPARTONO. [Development of *Brucella abortus* RB27 mutant strain using passage technique in Rifampisin]. Pengembangan strain mutan *Brucella abortus* RB27 dengan teknik pasase dalam Rifampisin/Supartono (Balai Penelitian Veteriner, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 145-149 1 ill., 14 ref.

LIVESTOCK; BRUCELLOSIS; BRUCELLA ABORTUS; ISOLATION TECHNIQUES; ANTIBIOTICS; AEROBIOSIS; VACCINES.

551 SUWANDI. [The role of antibiotics to combat cattle diseases in experimental stables]. Peran antibiotika dalam pengobatan ternak di kandang percobaan/Suwandi (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 58-61 3 ref.

LIVESTOCK; ANTIBIOTICS; VETERINARY MEDICINE; DRUG THERAPY; DOSAGE; DRUGS; ANIMAL DISEASES.

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

552 RAHMAN, T. [Adaptive assessment on fishery resource reserve management pattern at public waters in South Kalimantan]. Pengkajian adaptif pola pengelolaan reservat sumberdaya perikanan perairan umum di Kalimantan Selatan/Rahman, T.; Barnuwati; Rusmilawati; Wibyk, T.; Suhada, A.; Qomariah, R.; Aji, L. (Instalasi Penelitian dan Pengembangan Teknologi Pertanian, Banjarbaru (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: 252 p. 4 ref. Appendices

FISHERY RESOURCES; FISHERY MANAGEMENT; FISHES; ANIMAL POPULATION; ECONOMIC SOCIOLOGY; FISHERMEN; KALIMANTAN.

**M12 AQUACULTURE PRODUCTION /
PRODUKSI AKUAKULTUR**

553 IRWANDI, D. [Fish culture technology of *Anabas testudineus* Bloch. by using tidal fish ponds in low-tidal land]. Teknologi budidaya ikan Papuyu (*Anabas testudineus* Bloch) dengan sistem beje sawah di lahan pasang surut/Irwandi, D.; Fahri, S.; Jaya, R.; Chairullah, B.; Susilo, Y.C. (Balai Pengkajian Teknologi Pertanian Palangkaraya (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 155-162 2 tables; 5 ref. Appendices

FISHES; FISH CULTURE; FISH PONDS; TECHNOLOGY; AGROPISCICULTURE; TIDES.

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

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

555 SOPLANIT, M. [Freshwater fish culture on floating net cage in Sentani lake, Papua Province]. Budidaya ikan air tawar pada keramba jaring apung di Danau Sentani Propinsi Papua/Soplanit, M. (Balai Pengkajian Teknologi Pertanian Papua, Jayapura (Indonesia)). [Proceedings of the Agricultural Technology Recommendation in Papua (Indonesia)]. Prosiding Rekomendasi Paket Teknologi Pertanian Spesifik Lokasi Papua/Limbongan, J.; Louw, J.; Pambunan, S.; Sihombing, S.R.D. (eds.). Badan Penelitian dan Pengembangan Daerah Papua, Jayapura (Indonesia). Jayapura: Balitbang Daerah Papua, 2003: p. 62-63 1 table

OREOCHROMIS NILOTICUS; FRESH-WATER FISHES; FISH CULTURE; CAGE CULTURE; FISH FARMS; ECONOMIC ANALYSIS; IRIAN JAYA.

**M40 AQUATIC ECOLOGY / EKOLOGI
AKUATIK**

556 AMNAH S., S. [Community structure and primary productivity of phytoplankton in Kendari gulf waters, Southeast Sulawesi]. Struktur komunitas fitoplankton dan produktivitas primer di perairan Teluk Kendari, Sulawesi Tenggara/Amnah S., S. (Universitas Islam Riau, Pekanbaru (Indonesia)); Nasaruddin. Jurnal Alam (Indonesia) ISSN 0852-5132 (2004) v. 12(7) p. 67-82 5 tables; 17 ref.

PHYTOPLANKTON; IDENTIFICATION; BIOLOGICAL PROPERTIES; CHEMICO-PHYSICAL PROPERTIES; PRIMARY PRODUCTIVITY; COASTAL WATERS; SULAWESI SEA.

N10 AGRICULTURAL STRUCTURES / SARANA PERTANIAN

557 SULYO, Y. [Automated misting control machines without timer]. Alat pengendali pengkabutan otomatis tanpa timer /Sulyo, Y. (Balai Penelitian Tanaman Hias, Segunung (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian (Indonesia)* ISSN 0216-4427 (2004) v. 26(1) p. 14-16
MIST PROPAGATION; CUTTINGS; ROOTING; SPRAYING; EQUIPMENT; EQUIPMENT PERFORMANCE.

N20 AGRICULTURAL MACHINERY AND EQUIPMENT / MESIN DAN PERALATAN PERTANIAN

558 HANDAKA. [Agricultural mechanization role in supporting food production increase]. Peranan alat dan mesin pertanian dalam mendukung peningkatan produksi pangan/Handaka; Harjono; Purwanta, C.Y. (Balai Besar Pengembangan Alat dan Mesin Pertanian, Serpong (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. *Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.)*. Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 62-76 6 tables; 4 ref. Appendices

FARM EQUIPMENT; PRODUCTION; FOOD CROPS; AGRICULTURAL DEVELOPMENT; POSTHARVEST TECHNOLOGY; LAND USE.

559 HENDRIADI, A. [Agricultural equipment and machinery for food crops and horticultural development in tidal swamp land]. Alat dan mesin pertanian untuk pengembangan tanaman pangan dan hortikultura di lahan pasang surut/Hendriadi, A. (Balai Besar Pengembangan Mekanisasi Pertanian, Serpong (Indonesia)); Massinai, R.

[Proceedings of the Seminar on Research and Assessment Result of Agricultural Technology at Tidal Swamp Land]. *Prosiding Seminar Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian di Lahan Pasang Surut /Sabran, M.; Ar-Riza, I.; Masganti; Utomo, B.N.; Suriansyah (eds.)*. Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor: PSE, 2003: p. 91-99 3 tables; 5 ref. Summary (In)

FOOD CROPS; HORTICULTURE; EQUIPMENT; INTERTIDAL ENVIRONMENT; EQUIPMENT PERFORMANCE.

560 MUHAMMAD, I.K. [Supporting factors on using of power thresher by farmers in low tidal land: case study in District of Tanah Laut, South Kalimantan]. Beberapa faktor pendukung digunakannya mesin perontok padi (power thresher) oleh petani di lahan pasang surut: Studi kasus di Kabupaten Tanah Laut Kalimantan Selatan/Muhammad, I.K.; Noor, I.; Noor, H.D.J. (Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. *Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.)*. Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 230-236 5 tables; 6 ref.

RICE; FARM EQUIPMENT; THRESHERS; FARMERS; TIDES.

561 PITOYO, J. [Power weeder on rice]. Mesin penyiang padi bermotor/Pitoyo, J.; Harjono; Lilik, T M.; Handaka (Balai Besar Pengembangan Alat dan Mesin Pertanian, Serpong (Indonesia)). *Warta Penelitian dan Pengembangan Pertanian (Indonesia)* ISSN 0126-4427 (2000) v. 22(5) p. 17-18

ORYZA SATIVA; EQUIPMENT PERFORMANCE; WEED CONTROL EQUIPMENT.

562 SUTRISNO. [Increasing the competitiveness of rice at global market through artificial dryer technology]. Peningkatan daya saing beras dalam era pasar global lewat teknologi pengering buatan/Sutrisno (Balai Penelitian Tanaman Padi, Sukamandi

(Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/ Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 359-371 7 ill., 3 ref. Summary (In)

RICE; DRYERS; TECHNOLOGY; ECONOMIC COMPETITION; SUMATRA.

563 WIDYOTOMO, S. [Production machine of powder coffee at farmer scale]. Mesin produksi kopi bubuk skala kelompok tani/Widyotomo, S.; Sri-Mulato; Handaka (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 12-14 1 ill.

COFFEE; EQUIPMENT; ROASTING; FLOURS; EQUIPMENT PERFORMANCE; ECONOMIC ANALYSIS.

P30 SOIL SCIENCE AND MANAGEMENT / ILMU DAN PENGELOLAAN TANAH

564 NOTOHADIPRAWIRO, T. [Socialization of education image on soil sciences]. Mengangan-angankan citra pendidikan ilmu tanah yang memasyarakat/Notohadiprawiro, T. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Pertanian). Jurnal Ilmu Tanah dan Lingkungan (Indonesia) ISSN 0853-6368 (2002) v. 3(2) p. 57-61 4 ref.

SOIL SCIENCES; EDUCATION; INDONESIA.

P32 SOIL CLASSIFICATION AND GENESIS / KLASIFIKASI DAN PEMBENTUKAN TANAH

565 SURYONO, I. [Overcoming soil heterogeneity in field experiments]. Cara mengatasi heterogenitas tanah untuk percobaan lapang/Suryono, I.; Suwandi (Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.;

Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANG-NAK, 2003: p. 101-105 3 ref.

SOIL GENESIS; SOIL CHEMICO-PHYSICAL PROPERTIES; SOIL TEXTURE; SOIL PORE SYSTEM; SOIL COMPACTION; SOIL FERTILITY; TILLAGE; FIELD EXPERIMENTATION.

P34 SOIL BIOLOGY / BIOLOGI TANAH

566 HELIATI, I. [Isolation technique of natural rhizobium from the soils]. Teknik isolasi rhizobium alam dari tanah/Heliati, I. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANG-NAK, 2003: p. 62-65 5 ref.

CALLIANDRA CALOTHYRSUS; FEED CROPS; RHIZOBIUM; ISOLATION TECHNIQUES; ROOT NODULATION.

567 RINI, M.V. Influence of arbuscular mycorrhiza infection on growth, P uptake and root morphology of oil palm seedlings (*Elaeis guineensis* Jacq.)/Rini, M.V. (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Jurnal Tanah Tropika (Indonesia) ISSN 0852-257X (2004) v. 9(18) p. 145-154 4 ill.; 4 tables; 21 ref.

ELAEIS GUINEENSIS; SEEDLINGS; ROOTS; GROWTH; VESICULAR ARBUSCULAR; MYCORRHIZAE; SYMBIOSIS; INOCULATION; PHOSPHORUS; NUTRIENT UPTAKE; PLANT ANATOMY, AGRONOMIC CHARACTERS.

568 SALIM, Y. [Utilization of microorganisms on waste management]. Pemanfaatan mikroorganisme dalam pengelolaan limbah/Salim, Y. (Balai Pengkajian Teknologi Pertanian Sumatera Barat, Padang (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.;

Zen, S.; Afdi, E.; Irfan, Z.; Asyardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 267-271 11 ref.

ASPERGILLUS; FUSARIUM;
TRICHODERMA; BACILLUS;
PSEUDOMONAS; ACTINOMYCETALES;
WASTE MANAGEMENT; BIO-
DEGRADATION; MICROORGANISMS;
COMPOSTING; TECHNOLOGY
TRANSFER.

569 SASA, I.J. [Organic agriculture: improving soil and plant productivities by using worm and mycorrhizae]. Pertanian organik: upaya meningkatkan produktivitas tanah dan tanaman melalui cacing tanah dan mikoriza/Sasa, I.J.; Mulyadi; Suharsih; Sopiawati, T. (Loka Penelitian Pencemaran Lingkungan Pertanian, Jakenan (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 175-192 5 tables; 9 ref. Summary (In)

CROPS; ORGANIC AGRICULTURE;
LAND PRODUCTIVITY; PRODUCTION
INCREASE; CONVENTIONAL TILLAGE;
SOIL BORNE ORGANISMS; LUMBRICUS
RUBELLUS; MYCORRHIZAE.

P36 SOIL EROSION, CONSER- VATION, AND RECLAMATION / EROSI, KONSERVASI DAN REKLAMASI TANAH

570 KURNIA, U. [Rehabilitation and reclamation research of lowland rice soil polluted by waste of textile industry at Bandung District]. Penelitian rehabilitasi dan reklamasi tanah sawah tercemar limbah industri tekstil di Kabupaten Bandung/Kurnia, U.; Erfandi, D.; Sutono, S.; Kusnadi, H. Balai Penelitian Tanah, Bogor (Indonesia). Bogor: Balai Penelitian Tanah, 2003: 37 p.

JAVA; IRRIGATED LAND; INDUSTRIAL
WASTES; TEXTILE INDUSTRY; RECLA-
MATION; RESEARCH.

P40 METEOROLOGY AND CLIMA- TOLOGY / METEOROLOGI DAN KLIMATOLOGI

571 ASMARHANSYAH. [Biophysical aspect of agro-ecological zone in prime commodity zoning in the district of West and East Kotawaringin and South Barito (Indonesia)]. Aspek biofisik zona agroekologi dalam pewilayahan komoditas unggulan di Kobar, Kotim, dan Barsel/Asmarhansyah; Firman-syah, M.A.; Siswansyah, D.D. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 122-133 5 tables; 6 ref. Appendices

AGRICULTURAL PRODUCTS; AGRO-
ECOSYSTEMS; BIOPHYSICS; AGRO-
INDUSTRIAL SECTOR; ENVIRONMENT;
KALIMANTAN.

572 REJEKININGRUM, P. [Rainfall and runoff to increase dryland productivity at Nyatnyono, Kaligarang Watershed Semarang]. Panen hujan dan aliran permukaan untuk meningkatkan produktivitas lahan kering di Nyatnyono, DAS Kaligarang Semarang/Rejekiningrum, P. (Balai Penelitian Klimatologi, Bogor (Indonesia)); Haryati, U.; Haryono. [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 161-174 4 ill., 4 tables; 7 ref. Summary (In)

WATER SUPPLY; RUNOFF; EROSION;
AGROECOSYSTEMS; JAVA; LAND
PRODUCTIVITY; RAIN; DRY FARMING.

573 SUCIANTINI. [Evaluation of rain characteristic prediction and arrangement of season prediction model: a case study in Indramayu Regency]. Evaluasi prakiraan sifat

hujan dan penyusunan model prediksi musim: studi kasus Kabupaten Indramayu/Suciantini. Institut Pertanian Bogor (Indonesia). Sekolah Pascasarjana. Bogor: IPB, 2004: 129 p.

RAIN; CLIMATE; FORECASTING; EVALUATION; MODELS; JAVA

Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN PANGAN

574 MASSINAI, R. [Secondary processing of fruits using vacuum frying]. Pengolahan sekunder buah-buahan menggunakan Vacuum frying/Massinai, R.; Rukayah; Susilawati (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Proceedings of the Seminar on Research and Assessment Result of Agricultural Technology at Tidal Swamp Land]. Prosiding Seminar Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian di Lahan Pasang Surut/Sabran, M.; Ar-Riza, I.; Masganti; Utomo, B.N.; Suriansyah (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Bogor: PSE, 2003: p. 149-158 1 ill., 1 table; 5 ref.

PINEAPPLES; ARTOCARPUS HETEROPHYLLUS; SALACCA; BANANAS; PROCESSING; FRYING; ORGANOLEPTIC PROPERTIES; FOOD TECHNOLOGY; COST BENEFIT ANALYSIS.

575 SRI-MULATO. [Design of processing technology of cocoa mass, cocoa butter, and cocoa powder for farmer groups]. Disain teknologi pengolahan pasta, lemak, dan bubuk cokelat untuk kelompok tani/Sri-Mulato; Widyotomo, S.; Handaka (Pusat Penelitian Kopi dan Kakao, Jember (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4427 (2004) v. 26(1) p. 1-3 6 ill.

COCOA BEANS; COCOA POWDER; COCOA BUTTER; PASTA; PROCESSING; FOODS; FARMERS.

576 SRI-MULATO. [Processing technology and machines for farmers' group scale cacao industries]. Teknologi proses dan alat mesin industri hilir kakao skala kelompok tani

/Sri-Mulato; Widyotomo, S.; Handaka. Balai Besar Pengembangan Mekanisasi Pertanian, Serpong (Indonesia). Serpong: Balai Besar Pengembangan Mekanisasi Pertanian, 2004: 11 p.

THEOBROMA CACAO; PROCESSING; FOOD INDUSTRY EQUIPMENT; SEED CLEANING; FRYING; ROASTING; SHELLING; FARMERS ASSOCIATIONS.

577 WIDYOTOMO, S.. [Processing technology and machines for primary product of cacao]. Teknologi proses dan alat mesin pengolahan kakao produk primer/Widyotomo, S.; Sri-Mulato; Handaka. Balai Besar Pengembangan Mekanisasi Pertanian, Serpong (Indonesia). Serpong: Balai Besar Pengembangan Mekanisasi Pertanian, 2004: 9 p.
THEOBROMA CACAO; PROCESSING; POSTHARVEST TECHNOLOGY; FERMENTATION EQUIPMENT; SORTING EQUIPMENT; DRYERS.

578 ZURRIYATI, Y. [Nutrition content on fermented buffalo milk packaged in bamboo and plastic tubes]. Nilai nutrisi dadih susu kerbau dalam kemasan tabung bambu dan tabung plastik/Zurriyati, Y. (Balai Pengkajian Teknologi Pertanian Riau, Pekanbaru (Indonesia)). Jurnal Alam (Indonesia) ISSN 0852-5132 (2004) v. 12(7) p. 113-122 4 tables; 6 ref.

WATER BUFFALOES; BUFALLO MILK; CULTURED MILK; FERMENTED PRODUCTS; NUTRITIVE VALUE; PACKAGING MATERIALS; PROCESSING; PROXIMATE COMPOSITION.

Q03 FOOD CONTAMINATION AND TOXICOLOGY / KONTAMINASI DAN TOKSIKOLOGI PANGAN

579 YUNIARTI. [Improving the quality and food safety of small industry processed products through hazard analysis and determination of critical point]. Perbaikan mutu dan keamanan pangan produksi olahan hasil industri kecil melalui analisis bahaya dan penentuan titik kendali/Yuniarti (Balai Penelitian Teknologi Pertanian Jawa Timur, Malang (Indonesia)). Buletin Teknologi dan Informasi Pertanian (Indonesia) ISSN 1410-8976 (2003) v. 6 p. 53-66 9 tables; 18 ref.

FOODS; PROCESSED PRODUCTS; FOOD SAFETY; QUALITY; FOOD TECHNOLOGY.

Q04 FOOD COMPOSITION / KOMPOSISI PANGAN

580 NUGRAHA, E. [Analysis of volatile fatty acid and long chain fatty acid content using gas chromatography]. Analisis kandungan VFA dan LCFA dengan menggunakan alat gas kromatografi/Nugraha, E. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 121-126 4 tables; 7 ref.

RUMEN; FISH OILS; VOLATILE FATTY ACIDS; MYRISTIC ACID; PALMITIC ACID; OLEIC ACID; LINOLEIC ACID; STEARIC ACID; HEXANOIC ACID; GAS CHROMATOGRAPHY.

581 YUNIZAL. [Extraction of sodium alginate from brown seaweed]. Ekstraksi natrium alginat dari rumput laut coklat/Yunizal (Instalasi Penelitian Perikanan Laut Slipi, Jakarta (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 3-5 2 ill., 1 table

SEAWEEDES; PHAEOPHYCEAE; PROCESSING; EXTRACTION; ALGINATES.

Q51 FEED TECHNOLOGY / TEKNOLOGI PAKAN

582 HARDIANTO, R. [Engineering process and developing of complete feed technology to support sheep agribusiness]. Proses perakitan dan pengembangan teknologi pakan lengkap (complete feed) untuk mendukung agribisnis ternak domba/Hardianto, R. (Balai Penelitian Teknologi Pertanian Jawa Timur, Malang (Indonesia)). Buletin Teknologi dan Informasi Pertanian (Indonesia) ISSN 1410-

8976 (2003) v. 6 p. 67-80 1 ill., 8 tables; 7 ref.

SHEEP; COMPLETE FEEDS; TECHNOLOGY; AGROINDUSTRIAL SECTOR; COMMERCIAL FARMING; AGRICULTURAL WASTES; PROXIMATE COMPOSITION; TECHNOLOGY TRANSFER.

Q52 FEED PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN PAKAN

583 MATHIUS, I W. [By Product of oil palm plant and processed kernel as complete basic feed for cattle: a review]. Produk samping tanaman dan pengolahan buah kelapa sawit sebagai bahan dasar pakan komplit untuk sapi: suatu tinjauan/Mathius, I W. (Balai Penelitian Ternak, Bogor (Indonesia)); Sitompul, D.; Manurung, B.P.; Azmi. [Proceedings of National Workshop on Oil palm-Cattle Integrated Farming System]. Prosiding Lokakarya Nasional Sistem Integrasi Kelapa sawit-Sapi Bengkulu, 9-10 September 2003/Setiadi, B.; Mathius, I W.; Inounu, I.; Djajanegara, A.; Adjid, R.M.A.; Resdiono, B.; Lubis, D.; Priyanti, A.; Prayanto, D. (eds.). Balai Pengkajian Teknologi Pertanian Bengkulu (Indonesia). Bengkulu: BPTP Bengkulu, 2004: p. 120-128 2 tables; 22 ref.

PALM OILS; PLANTATIONS; BY-PRODUCTS; FEEDS; FEED PROCESSING; NUTRITIVE VALUE; CATTLE.

584 SANDRA, H. [Effect of vitamin C content on feeds at different L-ascorbyl-2-phosphate magnesium farms on the ability of body to stress control and growth of *Mystus nemurus*]. Pengaruh kadar vitamin C pakan bentuk L-ascorbyl-2-phosphate magnesium yang berbeda terhadap kemampuan tubuh mengatasi stres dan pertumbuhan ikan baung (*Mystus nemurus* CV)/Sandra, H. Institut Pertanian Bogor (Indonesia). Bogor: IPB, 2002: 82 p.

MYSTUS; FEED ADDITIVES; MAGNESIUM; ASCORBIC ACID; STRESS; ENZYMES; GROWTH.

Q54 FEED COMPOSITION / KOMPO-SISI PAKAN

585 HENDRAYATI, H. [Dilution technique of crude protein analysis using Kjeldahl method and Markham still in feed materials]. Teknik pengenceran analisis protein kasar metode Kjeldahl dengan Markham still dalam bahan pakan/Hendrayati, H.; Askar, S. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 127-132 3 tables; 3 ref.

FORAGE; CONCENTRATES; CRUDE PROTEIN; TRACER TECHNIQUES; DISTILLING; METHODS.

586 SUPRIYATI. [Use of fermented cassava product (cassapro) and its nutritive value on broiler chickens]. Onggok terfermentasi (cassapro) dan nilai nutrisinya pada ayam ras pedaging/Supriyati; Kompiani, I P. (Balai Penelitian Ternak Ciawi, Bogor (Indonesia)). [Proceedings of the Seminar on Food Security and Agribusiness]. Prosiding Seminar Nasional Ketahanan Pangan dan Agribisnis/Las, I.; Buharman, B.; Nurdin, F.; Zen, S.; Afdi, E.; Irfan, Z.; Asyuardi (eds.). Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian, Bogor (Indonesia). Padang: BPTP Sumatera Barat, 2002: p. 326-330 5 tables; 10 ref.

CHICKENS; TAPIOCA; BYPRODUCTS; FERMENTED PRODUCTS; SOLID STATE FERMENTATION; PROXIMATE COMPOSITION; NUTRITIVE VALUE; FEED CONVERSION EFFICIENCY; QUALITY; CARCASSES.

Q55 FEED ADDITIVES / ZAT TAMBAHAN PAKAN

587 ROKHMAN. [Comin-Bloc high mineral feed additives for ruminants]. Comin-Bloc pakan imbuhan padat mineral untuk ruminansia/Rokhman (Balai Penelitian Ternak, Ciawi (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0126-4427 (2000) v. 22(5) p. 5 1 ill., 1 table

RUMINANTS; FEED ADDITIVES; MINERAL CONTENT; CHEMICAL COMPOSITION.

Q70 PROCESSING OF AGRICULTURAL WASTES / PENG-OLAHAN LIMBAH PERTANIAN

588 HARYONO. [Utilization of coir dust, and tofu waste as culture media and feed of *Lumbricus rubellus*]. Pemanfaatan serbuk sabut kelapa dan ampas tahu sebagai media pakan cacing tanah (*Lumbricus rubellus*)/Haryono (Balai Penelitian Ternak, Bogor (Indonesia)). [[Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 66-73 4 tables; 7 ref.

LUMBRICUS RUBELLUS; CULTURE MEDIA; FEEDS; COIR; DUST; SOYFOODS; FOOD WASTES; WASTE UTILIZATION; PROTEIN CONTENT; WEIGHT GAIN.

589 SUSILO, Y.C. [Prospect of fishery waste using for silage as fishery feeding industry]. Prospek pemanfaatan limbah perikanan untuk silase sebagai bahan industri pakan ikan/Susilo, Y.C.; Jaya, R.; Syaifullah, E.; Madjid, Y. (Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia)). [Results of Agricultural Research and Technology Assessment Proceedings]. Prosiding Hasil-hasil Penelitian dan Pengkajian Teknologi Pertanian/Suriatinah; Alihamsyah, T.; Sabran, M.; Sulaiman, S.; Ramli, R.; Hartono, A.; Djauhari S., D. (eds.). Balai Pengkajian Teknologi Pertanian Kalimantan Tengah, Palangkaraya (Indonesia). Palangkaraya: BPTP Kalimantan Tengah, 2000: p. 186-194 1 ill., 6 tables; 9 ref. Appendix

FISHES; FISH WASTES; SILAGE; FEEDS; FEED INDUSTRY.

590 UJIANTO, A. [Possible utilization of banana wastes for feed]. Peluang pemanfaatan limbah pisang sebagai pakan ternak/Ujianto, A. (Balai Penelitian Ternak, Bogor (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu

Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 53-57 3 tables; 5 ref.

BANANAS; WASTE UTILIZATION; WASTE MANAGEMENT; FERMENTATION; PROBIOTICS; FEEDS; PROXIMATE COMPOSITION; NUTRITIVE VALUE; COST ANALYSIS; ECONOMIC VALUE.

T01 POLLUTION / POLUSI

591 HENDRO H.S., H. [Role of the vegetation on greenhouse effect in urban areas]. Peranan vegetasi dalam pengendalian efek rumah kaca di perkotaan/Hendro H.S., H.; Supriyo, H. (Universitas Muria, Kudus (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 279-285 14 ref. Summary (In)

URBAN ENVIRONMENT; GREENHOUSE EFFECT; VEGETATION; CLIMATIC CHANGE.

592 JATMIKO, S.Y. [Rice husk and coconut shell effectiveness as organic ameliorant on pesticide residues in soil]. Efektivitas sekam padi dan tempurung kelapa sebagai bahan ameliorasi organik terhadap residu pestisida di dalam tanah/Jatmiko, S.Y.; Harsanti, E.S. (Loka Penelitian Pencemaran Lingkungan Pertanian Jakenan, Pati (Indonesia)); Ardiwinata, A.N.; Soejitno, J. [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 109-129 4 tables; 21 ref. Summary (In)

RICE HUSKS; COCONUT; SHELL; PESTICIDES; RESIDUES; SOIL POLLUTION.

593 KURNIA, U. [Study on the damage of agricultural environment caused by industrial and mining wastes]. Studi kerusakan lingkungan pertanian akibat limbah industri dan pertambangan/Kurnia, U. Proceeding of the National Seminar on the Management of Agricultural Environment, Book 1: compilation of papers]. Prosiding Seminar Nasional Pengelolaan Lingkungan Pertanian, Buku 1: kumpulan makalah/Sofyan, S.; Jatmiko, S.Y.; Suranto; Suwanto; Sudaryanto, R.; Suganda, H. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2004: p. 9-31 8 tables; 10 ref. Appendices

AGRICULTURE; ENVIRONMENTAL DEGRADATION; INDUSTRIAL WASTES; SOIL POLLUTION; COAL; GOLD; LEAD; WATER POLLUTION; POLLUTION CONTROL.

594 NOERIWAN B.S. [Sampling technique used for N₂O gas emission in the field]. Teknik pengambilan sampel emisi gas N₂O di lapangan/Noerivan B.S. (Loka Penelitian Pencemaran Lingkungan Pertanian Jakenan, Pati (Indonesia)). [Proceedings of Technical Meeting on Non Research Professionals]. Prosiding Temu Teknis Fungsional Non Peneliti/Priyanto, D.; Rachmawati, S.; Askar, S.; Barkah, K.; Kushartono, B.; Budiman, H. (eds.). Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor: PUSLITBANGNAK, 2003: p. 96-100 2 tables; 6 ref.

NITROUS OXIDE; POLLUTANTS; GREENHOUSE EFFECT; ENVIRONMENTAL IMPACT; SAMPLING; GAS PACKAGING.

595 NURJAYA. [Identification of status and reach of Pb pollution in soil and tea plantations]. Identifikasi status dan jangkauan pencemaran Pb dalam tanah dan tanaman teh/Nurjaya; Sofyan, A.; Subowo (Balai Penelitian Tanah, Bogor (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.).

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CAMELLIA SINENSIS; IDENTIFICATION; POLLUTION; LEAD; JAVA.

596 PRAMONO, A. [Biodegradation of tapioca liquid waste using *Endomycopsis fibuligera* and *Candida utilis*]/Pramono, A.; Mulyono, S. (Loka Penelitian Pencemaran Lingkungan Pertanian Jakenan, Pati (Indonesia)); Hartadi, S. [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 151-160 3 tables; 21 ref. Summary (In)
TAPIOCA; LIQUID WASTES; ORGANIC WASTES; BIODEGRADATION; CANDIDA UTILIS; FERMENTATION.

597 PURWONO, B. [Quality standard of wastes: its relation with agricultural environment conservation]. Buku mutu limbah: hubungannya dengan kelestarian lingkungan pertanian/Purwono, B. (Kementerian Lingkungan Hidup, Jakarta (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 21-30

WASTES; QUALITY; STANDARDS; ENVIRONMENTAL FACTORS; AGRICULTURAL SECTOR.

598 SETYORINI, D. [Heavy metal content on fertilizers]. Kadar logam berat dalam pupuk/Setyorini, D. (Balai Penelitian Tanah, Bogor (Indonesia)); Soeparto; Sulaeman. [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.;

Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 219-229 5 tables; 7 ref. Summary (In)

HEAVY METALS; ORGANIC FERTILIZERS; CADMIUM; PHOSPHATES; TOXIC SUBSTANCES; HEALTH.

599 SUGANDA, H. [Heavy metal in waste of textile, land, and irrigated rice in Bandung Regency]. Logam berat dalam limbah pabrik tekstil, lahan, dan padi di pesawahan Kabupaten Bandung/Suganda, H.; Kurnia, U.; Kusnadi, H.; Setyorini, D. (Loka Penelitian Pencemaran Lingkungan Pertanian Jakenan, Pati (Indonesia)). [Proceedings of the National Seminar on Increasing of Environment Quality and Agricultural Products]. Prosiding Seminar Nasional Peningkatan Kualitas Lingkungan dan Produk Pertanian/Adimihardja, A.; Sofyan, A.; Jatmiko, S.Y.; Sasa, J. (eds.). Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia). Bogor: PUSLITTANAK, 2003: p. 207-218 6 tables; 11 ref. Summary (In)

IRRIGATED RICE; HEAVY METALS; IRRIGATED LAND; INDUSTRIAL WASTES; TEXTILES; POLLUTION; JAVA.

U10 MATHEMATICAL AND STATISTICAL METHODS / METODA MATEMATIKA DAN STATISTIKA

600 KOSWARA, S. [Application of Arrhenius quotient to estimate shelflife of products and foodstuffs]. Penerapan persamaan Arrhenius untuk menduga umur simpan produk dan bahan pangan/Koswara, S. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). Jurnal Teknologi dan Industri Pangan (Indonesia) ISSN. 0216-2318 (2002) v. 8(2) p. 197-203 2 ill., 4 tables;

FOODS; QUALITY; KEEPING QUALITY; TEMPERATURE; MATHEMATICAL MODELS.

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