

Maklumat Pertanian Malaysia

BULETIN

Mac/Jun 1986 *Jil. 6 Bil. 1 & 2

ISSN: 0127-0575

KANDUNGAN

Fokus:

Sistem Maklumat Perikanan di Jabatan Perikanan Malaysia

Khatijah bte Hj. Nordin..... 1

Senarai Ulasan Makalah (Review Articles)

Pilihan 4

Bibliografi Pertanian Malaysia 6

Istilah Pertanian Pilihan29

Kalendar Kongress Pertanian33



SISTEM MAKLUMAT PERIKANAN DI JABATAN PERIKANAN MALAYSIA*

Khatijah Bte. Hj. Nordin
Jabatan Perikanan
Kuala Lumpur

PENGENALAN

Latar Belakang

Jabatan Perikanan dan Lembaga Kemajuan Ikan Malaysia merupakan agensi utama yang terlibat dengan sektor perikanan. Tiap-tiap agensi itu diberi tanggungjawab di bawah akta perbadanan. Khususnya, Jabatan Perikanan bertanggungjawab ke atas kemajuan keseluruhan bidang perikanan dan pengurusannya serta hal-hal yang berkaitan.

Tanggungjawab pembangunan dan pengurusan yang dimaksudkan adalah:-

(i) mengurus dan mengawal pengolahan dan memaju-

kan sumber-sumber perikanan untuk mencapai pengeluaran yang terbaik hasilnya dan tertinggi kadarnya bagi memenuhi kehendak negara.

(ii) menambah/meningkatkan pengeluaran dan pendapatan nelayan dan petani yang terlibat dengan perikanan.

Aktiviti-aktiviti Bahagian ini meliputi perkara-perkara berikut:

- (i) Pentadbiran
- (ii) Penyelidikan Perikanan
- (iii) Perlindungan dan Pengurusan Sumber Perikanan
- (iv) Perkhidmatan Pengembangan
- (v) Latihan
- (vi) Sokongan Teknologi
- (vii) Perancangan Pembangunan Perikanan

ORGANISASI SISTEM MAKLUMAT PERIKANAN

Bahagian Pengembangan dan Latihan, Jabatan Perikanan mempunyai peranan penting bagi pemindahan teknologi yang sesuai di dalam industri perikanan. Status sosio-ekonomi nelayan dan petani yang terlibat dengan perikanan akan dapat ditingkatkan. Aktiviti-aktiviti yang dijalankan oleh Bahagian ini bagi memenuhi peranannya dalam sistem maklumat ini adalah:-

- (i) Penyebaran Maklumat Am
 - a. Penerbitan
 - b. Pertunjukkan wayang oleh Unit Bergerak
 - c. Pameran
 - d. Lain-lain media
- (ii) Latihan
 - a. Latihan untuk nelayan
 - i. Setempat
 - ii. Luar kawasan

MPM ialah sebuah buletin suku tahunan yang diterbitkan oleh Perpustakaan Universiti Pertanian Malaysia. Pandangan dan pendapat penyumbang tidak semestinya mencerminkan pandangan atau pendapat jemaah pengarang. Buletin ini diberi secara percuma atas permintaan. Sila alamatkan semua surat menyurat/pertanyaan kepada: Ketua Pengarang, Buletin Maklumat Pertanian Malaysia, Perpustakaan, Universiti Pertanian Malaysia, Serdang, Selangor.

Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd. Ariff Arifin
Pengarang-pengarang: Badilah Saad; Nor Zaidah Mohd. Hashim; Kamsiah Mohd. Ali;
Wan Mohd. Ghazalli Wan Mansor
Penyunting: Jama'yah Zakaria

b. Latihan untuk petani yang terlibat dengan perikanan

- i. Setempat
- ii. Luar kawasan

(iii) Bantuan fizikal serta Percubaaan dan Demonstrasi

(iv) Perkhidmatan Nasihat Teknikal

(v) Sistem Maklumat Pengurusan Perikanan

Penyebaran Maklumat Am

a. Penerbitan

Satu daripada cara untuk menyebarkan maklumat kepada nelayan ialah melalui penerbitan risalah, seperti Berita Nelayan, Risalah Perikanan dan kertas-kertas pengembangan. Berita Nelayan merupakan satu terbitan yang dikeluarkan untuk keperluan semasa nelayan. Risalah ini diterbitkan di dalam Bahasa Malaysia.

b. Pertunjukkan Wayang oleh Unit Bergerak

Tujuan utama aktiviti tersebut ialah untuk memberi kesedaran dan penerangan tentang industri perikanan secara am. Jabatan perikanan mempunyai dua unit bergerak yang akan membuat lawatan ke kawasan kediaman nelayan bagi tujuan di atas. Filem-filem yang ditayangkan berbentuk pendidikan seperti Hidangan Lazat dan Hasil dari Kolam.

c. Pameran

Pameran dirancang pada peringkat Pusat dan Negeri untuk mengumumkan rancangan-rancangan Kerajaan, dan mendidik nelayan dan petani mengenai teknologi moden dalam bidang perikanan.

d. Lain-lain Media

Penerangan dan maklumat juga disebarkan kepada nelayan dan petani melalui radio, televisyen dan akhbar.

Di dalam latihan-latihan yang dijalankan oleh Jabatan ini pertunjukkan slit juga digunakan selain dari risalah-risalah bercetak.

Latihan

a. Latihan untuk Nelayan

i. Setempat

Bagi latihan setempat, dua peringkat kursus diberi, peringkat lanjutan dan peringkat permulaan.

Peringkat lanjutan dijalankan oleh Institut Perikanan Malaysia, Gelugor, Pulau Pinang. Ini melibatkan nelayan yang menjalankan usaha di laut dalam. Kursus-kursus ini ialah untuk malim dan nakhoda. Panjang kursus-kursus itu ialah dua tahun. Ia meliputi teori dan amali di laut. Pelatih-pelatih di kursus tersebut terdiri daripada pelajar yang mempunyai Sijil Pelajaran Malaysia dan Sijil Rendah Pelajaran. Lebih kurang 100 pelatih diberi latihan setiap tahun.

Peringkat permulaan dijalankan di Pusat Latihan Perikanan Laut Dalam, di Pulau Pinang dan juga di Kuala Trengganu. Tujuan kursus ini ialah untuk meningkatkan lagi kemahiran nelayan-nelayan yang masih menggunakan cara tradisional. Cara-cara menggunakan peralatan moden dan pengendalian jentera-jentera laut dititikberatkan. Ini termasuk ilmu pelayaran dan kemahiran mengendalikan kapal dan perahu. Kursus ini mengambil masa selama tiga bulan dan seramai 120 peserta diambil setiap tahun.

ii. Luar kawasan

Latihan ini ialah untuk nelayan-nelayan yang tiada boleh meninggalkan kawasan mereka lebih sebulan. Nelayan-nelayan mengikuti kursus ini selama tiga hingga empat hari atau dua minggu, bergantung kepada kursus-kursus tersebut. Kursus ini berguna bagi nelayan yang ingin mendapat pengetahuan baru di dalam bidang perikanan.

Aturcara latihan termasuk bengkel-bengkel, lawatan-lawatan dan pameran/demonstrasi.

a. Latihan untuk Petani yang terlibat dengan Perikanan

i. Setempat

Kursus ini dijalankan di Pusat Perikanan Air Tawar, Bukit Tinggi, Pahang. Tujuan utama kursus tersebut ialah untuk memberi pendidikan asas cara-cara dan falsafah pemeliharaan ikan air tawar serta untuk meningkatkan kemahiran mereka mengendalikan usaha-usaha tersebut.

Kursus-kursus ini dijalankan selama dua minggu dan dua puluh lima orang peserta diambil setiap kursus.

ii. Luar kawasan

Latihan-latihan dijalankan di setesen pembiakan di Utara, di Pantai Timur dan Pantai Barat Semenanjung Malaysia seperti Pusat-Pusat Pembaikbiak Ikan di Enggor, Kuala Kangsar (Perak), di Macang, Kelantan dan di Jitra, Kedah. Kursus ini mengambil masa selama enam hingga tujuh hari.

Bantuan Fisikal (Ternakair)

Bantuan-bantuan juga diberikan kepada petani-petani yang terlibat dengan perikanan. Ini termasuk bantuan baja kimia, benih-benih ikan, kapur (agricultural lime), semen, dan modal membuat kolam dan sangkar-sangkar ikan (cages).

Untuk program akuakultur, Jabatan Perikanan menyediakan benih-benih macrobrachium dan ikan bilis kepada petani.

Perkhidmatan Nasihat Teknikal

Sebagai tambahan kepada usaha-usaha tersebut di atas, pegawai-pegawai perikanan juga memberi nasihat teknikal secara am ketika menyelia kawasan-kawasan projek yang dijalankan. Ini terdiri dari pembantu-pembantu perikanan dan

pegawai-pegawai peringkat atasan bergantung kepada besarnya projek yang dijalankan.

Masalah utama di dalam sistem ini ialah maklumbalas. Sistem 2L, iaitu latihan dan lawatan yang sedang diusahakan oleh Jabatan ini mungkin akan dapat mengatasi masalah tersebut. Di dalam sistem ini, lebih banyak latihan dijalankan, disertai dengan lawatan-lawatan ke kawasan-kawasan nelayan dan petani untuk mendapatkan maklumbalas bagi meningkatkan kemajuan mereka.

Dalam Percubaan dan Demonstrasi nelayan-nelayan dibantu bagi mendapatkan alat-alat moden seperti sonar, 'echo sounder', 'net hauler' untuk dicuba sendiri oleh mereka dan akan membuat demonstrasi kepada nelayan-nelayan lain - Kerjasama nelayan adalah diperlukan. Pusat Pengembangan Perikanan Laut (PPPL) memainkan peranan penting dalam aspek ini.

Sistem Maklumat Pengurusan Perikanan

Sistem maklumat ini memberikan data-data untuk membolehkan pihak perancangan dan pengurusan dalam hal-hal perikanan untuk merancang keseluruhannya bagi mengujudkan perusahaan perikanan yang rasional. Rancangan pembangunan sektor perikanan keseluruhan adalah berdasarkan kajian, analisa dan maklumat yang diperolehi dalam sistem ini. Yang memainkan peranan penting dalam sistem ini adalah:-

- (i) Institut Penyelidikan Perikanan
- (ii) Cawangan Pengurusan dan Perlindungan Perikanan
- (iii) Institut Perikanan Malaysia dan
- (iv) Cawangan Perancangan dan Pembangunan Jabatan Perikanan.

*Kertaskerja di Seminar Sains Maklumat Perikanan Asia Tenggara pada 16-20 Ogos, 1982 di Bangkok

SENARAI ULASAN MAKALAH (REVIEW ARTICLES) PILIHAN

Ruangan ini menyenaraikan makalah-makalah yang membuat ulasan mengenai sesuatu perkara tertentu. Dari aspek penyelidikan, ulasan makalah adalah penting kerana ia memberi gambaran keadaan semasa perkara yang diperbincangkan disamping menekankan kepentingan penyelidikan-penyelidikan sebelumnya.

Senarai ini hanya memberi butiran bibliografi makalah-makalah berkenaan. Rujukan yang bertanda * menunjukkan makalah tersebut terdapat di Perpustakaan Universiti Pertanian Malaysia. Adalah diharap agar pembaca dapat berhubung dengan Perpustakaan masing-masing untuk mendapatkan makalah yang diminati.

Pembaca adalah dipelawa untuk mencadangkan lain-lain topik yang difikirkan sesuai untuk dimuatkan dalam ruangan ini.

1. *Calcium and plant development. Hepler, PK; Wayne, RO. Annual Review of Plant Physiology 36:397-439. 1985. 282 ruj.

btb QK1 A48

2. *Cell counts in bovine-milk-causes of variation and applicability for diagnosis of subclinical mastitis Brolund, L. Acta Veterinaria Scandinavica. (S80): 1-123. 1985. 130 ruj.

btb SF604 A29 (2097)

3. *Development of safer insecticides. Hodgson, E. Drug Metabolism Reviews 15(5-6): 881-895. 1984. 46 ruj.

btb RM301 D78 (331)

4. *Disease progress of South-American leaf blight of rubber in different Brazilian regions. Filho, AB. European Journal of Forest Pathology 14(7): 386-391. 1984. 41 ruj.

btb SB761 E85 (417)

5. Ecological constraints on nitrogen-fixation in agricultural ecosystems. Alexander, M. Advances in Microbial Ecology 8:163-183. 1985. 76 ruj.

6. Ethylene and abscission. Reid, MS Hortscience 20(1): 45-50. 1985. 117 ruj.

btb SB1 H6 (540)

7. Factors limiting the discrimination and quantification of terrestrial features using remotely sensed radiance. Duggin, MJ. Inter. J of Remote Sensing 6(1): 3-27. 1985. 73 ruj.

8. Follicular dynamics throughout the estrous-cycle in sheep - a review. Driancourt, MA; Gibson, WR; Cahill, LP. Reproduction Nutrition Development 25(1A): 1-5. 1985 a 91 ruj.

9. *Frequency-dependent selection by seed-predators. Greenwood, JJD. Oikos 44(1): 195-210. 1985. 135 ruj.

btb QH S40 033

10. *Hazardous waste management. 1. An overview of hazardous waste issues. Zegel, WC. J of Air Pollution Control Assoc 35(1):50. 1985. 7 ruj.
btb TD883 A48 (1470)
11. *Hydrogenation of palm and lauric oils. Grothues, BGM. J of the American Oil Chemists Soc. 62(2): 390-399. 1985. 52 ruj.
btb TP1 A512 (10)
12. *The intrusion of clonal growth-patterns on plant-breeding systems. Handel, S. American Naturalist 125(3): 367-384. 1985. 85 ruj.
btb QH1 A45 (8)
13. *Job satisfaction and job-performance - a meta-analysis. Iaffaldano, MT; Muchinsk. PM. Psychological Bulletin 97(2): 251-273. 1985. 105 ruj.
btb BF 1 P73 (1834)
14. *Lime and phosphate in the soil plant-system. Haynes, RJ. Advances in Agronomy 37:249-319. 1984. 462 ruj.
btb S1 A3
15. The mobilization of storage carbohydrates in germinated seeds. Halmer, P. Physiologie Vegetale 23(1): 107-125. 1985. 126 ruj.
16. *On the declining fauna of Peninsular Malaysia in the Post-Colonial period. Aiken, SR; Leigh, CH. Ambio 14(1): 15-22. 1985. 73 ruj.
btb QH S40 A52 (2138)
17. Organizational-behavior. Schneider B Annual Review of Psychology 36:573-611. 1985. 244 ruj.
18. A review of the prevalence, sources, hazards, testing and control of antibiotic residues in milk. Egau, J. Irish Vet J 39(4): 56-61. 1985. 65 ruj.
19. *Soil microbial biomass and selected soil enzyme-activities - effect of fertilization and cropping practices. Botton, H.R [and others.]. Soil Biology & Biochemistry 17(3): 297-302. 1985. 50 ruj.
btb S590 S577 (1238)
20. Thermophilic anaerobic contact digestion of palm oil mill effluent. Ibrahim, A. and others. Water Sci & Technology 17(2-3): 155-166. 1985. 11 ruj.
btb TD420 A274 (1552)

BIBLIOGRAFI PERTANIAN MALAYSIA

Bibliografi ini mengandungi bahan-bahan terbitan mengenai pertanian Malaysia yang telah diindeks dari Julai 1985 - Ogos 1985 oleh Pusat Kebangsaan AGRIS dengan kerjasama Perpustakaan Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Perpustakaan Negara Malaysia dan Perpustakaan Institut Penyelidikan Getah Malaysia untuk keperluan AGRIS dan AGRISIA.

Format AGRIS telah digunakan untuk mengindeks dan penyusunan bibliografi ini dibuat mengikut Pengelasan AGRIS seperti di bawah ini.

Kod	Perkara
A	- PERTANIAN AM (AGRICULTURE IN GENERAL)
A01	- Pertanian-Aspek Am (Agriculture-General aspects)
A50	- Penyelidikan Pertanian (Research)
B	- GEOGRAFI DAN SEJARAH (GEOGRAPHY AND HISTORY)
B10	- Geografi (Geography)
B50	- Sejarah (History)
C	- PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT (EDUCATION, EXTENSION AND INFORMATION)
C10	- Pendidikan (Education)
C20	- Pengembangan (Extension)
C30	- Dokumentasi dan Maklumat (Documentation and Information)
D	- PENTADBIRAN DAN PERUNDANGAN (ADMINISTRATION AND LEGISLATION)
D10	- Pentadbiran Awam (Public administration)
D50	- Perundangan (Legislation)
E00	- EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA (ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY)

E10	- Ekonomi dan polisi pertanian (Agricultural Economics and policies)
E11	- Ekonomi dan polisi tanah (Land economics and policies)
E12	- Buruh dan pekerjaan (Labour and employment)
E13	- Pelaburan, kewangan dan kredit (Investment, finance and credit)
E14	- Ekonomi dan polisi pembangunan (Development economics and policies)
E16	- Ekonomi pengeluaran (production economics)
E20	- Penyusunan, Pentadbiran dan Pengurusan Perusahaan Pertanian Atau Ladang (Organization, administration and management of agricultural enterprises or farms)
E21	- Industri pertanian (Agro-industry)
E40	- Koperasi (Cooperatives)
E50	- Sosiologi Desa (Rural Sociology)
E51	- Penduduk desa (Rural population)
E70	- Niaga, pemasaran dan edaran (Trade, marketing and distribution)
E71	- Niaga antarabangsa (International trade)
E72	- Niaga dalam negeri (Domestic trade)
E73	- Ekonomi pengguna (Consumer economics)
E80	- Ekonomi rumahtangga, industri dan kraf (Home economics, industries and crafts)
F	- SAINS TUMBUHAN DAN PENGELUARAN (PLANT SCIENCE AND PRODUCTION)
F01	- Perusahaan tanaman (Crop husbandry)
F02	- Pembiakan tumbuhan (Plant propagation)
F03	- Pengeluaran bijibenh (Seed production)

- F04 - Membaja (Fertilizing)
- F06 - Pengairan (Irrigation)
- F07 - Penyuburan tanah (Soil cultivation)
- F08 - Corak dan sistem penanaman (Cropping patterns and systems)
- F30 - Genetic dan pembiakbaikan tumbuhan (Plant genetics and breeding)
- F40 - Ekologi Tumbuhan (Plant Ecology)
- F50 - Struktur Tumbuhan (Plant Structure)
- F60 - Fisiologi dan biokimia tumbuhan (Plant physiology and biochemistry)
- F61 - Fisiologi tumbuhan - Pemakanan (Plant physiology - Nutrition)
- F62 - Fisiologi tumbuhan - Pertumbuhan dan perkembangan (Plant physiology - Growth and development)
- F63 - Fisiologi tumbuhan - Pengeluaran (Plant physiology - Reproduction)
- F70 - Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)
- H - PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)
- H01 - Perlindungan tumbuhan - Aspek am (Protection of plants - General aspects)
- H10 - Perosak tumbuhan (Pests of plants)
- H20 - Penyakit tumbuhan (Plant Diseases)
- H50 - Pelbagai penyakit tumbuhan (Miscellaneous Plant Disorders)
- H60 - Rumpai dan pengawalan rumpai (Weeds and weed control)
- J - TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/TUAI (POSTHARVEST TECHNOLOGY)
- J10 - Pengawasan, pengangkutan, storan dan perlindungan hasil pertanian (Handling, transport, storage and protection of agricultural products)
- J11 - Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)
- J12 - Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)
- J13 - Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)
- J14 - Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)
- J15 - Pengawasan, pengangkutan, storan dan perlindungan hasil pertanian yang bukan berbentuk makanan atau bahan makanan (Handling, transport, storage and protection of non-food or non-feed agricultural products)
- K - PERHUTANAN (FORESTRY)
- K01 - Perhutanan - Aspek Am (Forestry - General aspects)
- K10 - Pengeluaran Perhutanan (Forestry Production)
- K11 - Kejuruteraan hutan (Forest engineering)
- K50 - Pemprosesan hasil hutan (Processing of forest products)
- K70 - Kerosakan dan perlindungan hutan (Forest injuries and protection)
- L - SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN)
- L01 - Peternakan (Animal husbandry)
- L02 - Makanan ternakan (Animal feeding)
- L10 - Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
- L20 - Ekologi haiwan (Animal ecology)

- L40** - Struktur haiwan (Animal structure)
- L50** - Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
- L51** - Fisiologi haiwan - pemakanan (Animal physiology - Nutrition)
- L52** - Fisiologi haiwan - Pertumbuhan dan perkembangan (Animal physiology - Growth and development)
- L53** - Fisiologi haiwan - Pengeluaran (Animal physiology - Reproduction)
- L60** - Taksonomi dan geografi haiwan (Animal taxonomy and geography)
- L70** - Sains Veterinar dan Kesihatan (Veterinary science and hygiene)
- L72** - Perosak haiwan (Pests of animals)
- L73** - Penyakit-penyakit haiwan (Animal diseases)
- L74** - Pelbagai penyakit haiwan (Miscellaneous animal disorders)
- M** - PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)
- M01** - Perikanan dan akuakultur - Aspek am (Fisheries and aquaculture - General aspects)
- M11** - Pengeluaran perikanan (Fisheries production)
- M12** - Pengeluaran dan pengurusan akuakultur (Aquaculture production and management)
- M40** - Ekologi Akuatik (Aquatic Biology)
- M** JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINERY AND ENGINEERING)
- M01** - Kejuruteraan pertanian (Agricultural engineering)
- M02** - Pertapakan ladang (Farm layout)
- M10** - Struktur pertanian (Agricultural structures)
- N20** - Jentera dan peralatan pertanian (Agricultural machinery and equipment)
- P** - SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)
- P01** - Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)
- P05** - Sumber tenaga dan pengurusan (Energy resources and management)
- P06** - Pembaharuan sumber tenaga (Renewable energy resources)
- P07** - Sumber tenaga yang bukan berbentuk pembaharuan (Non-renewable energy resources)
- P10** - Sumber air dan pengurusan (Water resources and management)
- P11** - Pengairan (Drainage)
- P30** - Sains tanah dan pengurusan (Soil science and management)
- P31** - Kajian dan pemetaan tanah (Soil surveys and mapping)
- P32** - Pengelasan dan genesis tanah (Soil chemistry and genesis)
- P33** - Kimia dan fizik tanah (Soil chemistry and physics)
- P34** - Biologi tanah (Soil biology)
- P35** - Kesuburan tanah (Soil fertility)
- P36** - Hakisan, pemuliharaan dan penebusgunaan tanah (Soil erosion, conservation and reclamation)
- P40** - Meteorologi dan kaji iklim (Meteorology and climatology)
- Q** - PEMROSESAN HASIL PERTANIAN (PROCESSING OF AGRICULTURAL PRODUCTS)
- Q01** - Sains & teknologi makanan (Food science and technology)
- Q02** - Pemrosesan dan pengawetan makanan (Food processing and preservation)

- Q03 - Pencemaran dan toksikologi makanan (Food contamination and toxicology)
- Q04 - Kandungan makanan (Food composition)
- Q05 - Makanan penampung (Food additives)
- Q51 - Teknologi makanan ternakan (Feed technology)
- Q52 - Pemprosesan dan pengawetan makanan ternakan (Feed processing and preservation)
- Q53 - Pencemaran dan toksikologi makanan ternakan (Feed contamination and toxicology)
- Q54 - Kandungan makanan ternakan (Feed composition)
- Q55 - Makanan penampung ternakan (Feed additives)
- Q60 - Pemprosesan hasil pertanian yang bukan makanan manusia dan bukan makanan ternakan (Processing of non-food or non-feed agricultural products)
- Q70 - Pemprosesan sisa-sisa pertanian (Processing of agricultural wastes)
- Q80 - Pembungkusan (Packaging)
- S - PEMAKANAN MANUSIA (HUMAN NUTRITION)
- S01 - Pemakanan manusia - Aspek am (Human nutrition - General aspects)
- S20 - Fisiologi pemakanan manusia (Physiology of human nutrition)
- S30 - Sajian makanan dan penyakit-penyakitnya (Diet and diet-related diseases)
- S40 - Program-program pemakanan (Nutrition programmes)
- T - PENCEMARAN (POLLUTION)
- T01 - Pencemaran (Pollution)
- U - METODOLOGI (METHODOLOGY)
- U10 - Kaedah matematik dan statistik
- U30 - Kaedah penyelidikan (Research methods)
- U40 - Kaedah kajian (Surveying methods)



A: PERTANIAN AM

A50: Penyelidikan Pertanian

INSTITUT PENYELIDIKAN MINYAK KELAPA SAWIT MALAYSIA, KUALA LUMPUR. Annual Report 1983 - Palm Oil Research and Development Board [in Malaysia]. (En). **Annual Report 1983 (Malaysia)**. Palm Oil Research Institut of Malaysia Annual Report. ISSN 0127-0834. Bangi, Selangor. IPMKS. [1985]. 81 p. 25 col. plates. [Palm oils; Research institutions; Malaysia/Research policies.]

INSTITUT PENYELIDIKAN MINYAK KELAPA SAWIT MALAYSIA, BANGI, SELANGOR (MALAYSIA). PORIM Annual Research Report 1983 in 2 vols. [Palm Oil Research Institute of Malaysia; Oil Palms]. (En). **PORIM Annual Research Report 1983**. ISSN 0127-3507. Bangi, Selangor (Malaysia). [1985]. 614 p. Received Jul 1985. [Palm oils; Oil palms; Research institutions; Malaysia/Research; Research policies.]

PERIES, O.S. (Rubber Research Institute of Sri Lanka, Colombo). Seventy-five years of rubber research in Sri Lanka. (En). International Conference "75 years of Rubber Research in Sri Lanka". Colombo (Sri Lanka). 17-19 Sep 1984. **Planter (Malaysia)**. ISSN 0126-575x. (Jun 1985). v. 61(711) p. 274-276. Summary only. Received Aug, 1985. [Nitrogen fertilizers; Malaysia.]

C: PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT

C10: Pendidikan

KEREGERO, M.M. (Universiti Pertanian Malaysia, Serdang, Selangor. Centre for Extension and Continuing Education). The role of training in development: a conceptual overview. (En). **Land Development Digest (Malaysia)**. ISSN 0126-6162. 1984. v. 6(2) p. 57-67. 13 ref. Received Aug 1985. [Advisory officers; Training.]

C20: Pengembangan

SULAIMAN MOHD. YASSIN (Universiti Pertanian Malaysia, Serdang, Selangor. Center for Extension and Continuing Education). Linking research with extension and implications for farming systems in Malaysia. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 18 leaves. 1 ill., 7 ref. Summary (En). *Library, Universiti Pertanian Malaysia.

[Farming systems; Extension activities; Research; Malaysia.]

TURIMAN BIN SUANDI (Universiti Pertanian Malaysia, Serdang, Selangor. Centre for Extension and Continuing Education). Determinants of organizational commitment. (En). **Land Development Digest (Malaysia)**. ISSN 0126-6162. 1984. v. 6(2) p. 68-80. 3 tables. Received Aug 1985. [Extension activities; Performance.]

C30: Dokumentasi dan Maklumat

CHICO, L.V. (Asian Network for Industrial Technology, Information & Extension (Technonet Asia), Singapore). Small - and medium-sized industries in the Asian-Pacific region: Their information needs and technonet Asia's response. (En).

WONG, K.M.; MANOKARAN, N. (eds.). Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct. 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 195-201. 1 ill. 2 ref. Summary (En). Received Jul 1985. [Information services; Information needs; Asia.]

DALJEET-SINGH, K.; CHOO, K.T. (Forest Research Institute, Kepong (Malaysia)). The Rattan Information Centre (in Malaysia). (En).

WONG, K.M.; MANOLARAN, N. (eds.). Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct. 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 203-205. Summary (En). Received Jul 1985. [Rattans; Information services; Malaysia.]

MOHAMAD NOH SAMIK (Jabatan Pertanian, Kuala Lumpur (Malaysia). Pusat Kartografi dan Maklumat Pertanian). [Center for Cartography and Agriculture Information, Department of Agriculture [Malaysia]]. Pusat Kartografi dan Maklumat Pertanian, Jabatan Pertanian (Malay). **Buletin Maklumat Pertanian Malaysia**. ISSN 0127-0575. (Mac-Jun 1985). v. 5 (1-2) p. 1-4. 5 ill. Received Aug 1985. [Information services; Malaysia/ Cartography.]

D: PENTADBIRAN DAN PERUNDANGAN

D10: Pentadbiran Awam

CHONG, C.L.; ONG, A.S.H. Review of sampling devices approved by International/National Standards Organisation. (En). **PORIM Bulletin**

(Malaysia). Palm Oil Research Institute of Malaysia. ISSN 0127-0249. (May 1985). (no. 10) p. 16-24. 17 ill; 5 ref. Summary (En). Received Jul 1985. [International organisations/Standards; Sampling.]

E: EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA

E10: Ekonomi dan polisi pertanian

ABDUL AZIZ ABDUL RAHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Economic Dept.) Indicative planning of the West Malaysian economy using an input - output projection model. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985) v. 8(1) p. 21-32. 4 tables; 6 ref. Summary (En). Received Jul 1985. [Models; National planning; Peninsular Malaysia/Investment; Labour.]

ABDULLAH BIN SEPIEN (Bank Bumiputra Malaysia Berhad, Kuala Lumpur. Planning and Development Div.) An overview of the agricultural sector and its importance to the Malaysian economy. (En). *Malaysian Agricultural Digest*. [1984]. v. 3(1) p. 12-20. 5 ref. Received Jun 1984. [Agricultural development; Economics; Malaysia.]

AMINUDDIN MOHAMAD (Forest Research Institute, Kepong (Malaysia)); RAHIM SULAIMAN; LEE, H.S. Country report: Malaysia [Rattans]. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct. 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 221-229. 6 tables; 10 ref. Received Jul 1985. [Rattans; Malaysia.]

BASU, S.K. (Botanical Survey of India, Howrah). Country report: India [Rattans]. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct. 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 213-216. 3 tables; 3 ref. Received Jul 1985. [Rattans; India.]

CHEW, T.A. (University of Agriculture, Serdang, Selangor). Measuring the rate of technological change in Chinese rubber smallholdings - A micro-economic approach. (En). *Journal of the Rubber Research Institute of Malaysia*. ISSN 0035-953x. (1984). v. 32(pt. 3) p. 191-197. 3 tables; 7 ref. Summary (En). Received Jun 1985. [Rubber; Small scale farming; Peninsular Malaysia/Ethnicity; Technical progress.]

FRANCIS, J. Perak: Top priority for crops [Peninsular Malaysia]. *Agriculture*. (En). *Malaysian Business*. ISSN 0126-5504. (16 Jun 1985). p. 63. Received Aug 1985. [Crops; Peninsular Malaysia/Agricultural policies.]

GHAZALI SELAMAT (Malaysian Tobacco Co., Kuala Lumpur) [Planter-curer tobacco project - a settlement plan based on short term crops [in Malaysia]]. Projek penanam-pengawit tembakau - satu rancangan penempatan berdasarkan tanaman jangka pendek. (Malay). *Malaysian Agricultural Digest*. [1984]. v. 3(1) p. 21-27. 2 tables. Received Jun 1985. [Tobacco industry; Malaysia/ Costs; Income.]

GOH, C.T. Speech by Dr. Goh Cheng Teik, Deputy Ministry of Agriculture, at the Conference of Association of Agricultural Economists, at Rumah Universiti, Universiti Malay, on Tuesday, 14th May, 1985 at 9.45 am. [Malaysia]. (En). [Malaysia]. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 6 leaves. *Library, Universiti Pertanian Malaysia. [Agricultural policies; Malaysia.]

HAN, C.K.; GIBBONS, E.T.; MOHD. GHAZALI MOHAIYIDIN (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Resource Economics and Agribusiness). Malaysian agricultural development towards the 2000s - An information technology perspective. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 14 leaves. 20 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Agricultural development; Information processing; Malaysia.]

LAU, J.L.C. (Pepper Marketing Board, Kuching, Sarawak (Malaysia)). Pepper in Malaysia. (En). Seminar on "Spices - What You Need to Know". Subang Jaya, Selangor (Malaysia). 10 Apr 1982. *Food Technology in Malaysia*. (1982-1983). v. 5 p. 47-49. Summary (En). Received Aug 1985. [Piper nigrum; Malaysia/Production; Exports.]

MUSA HITAM [National Agriculture Policy (Malaysia)]. *Dasar Pertanian Negara*. (Malay). *Malaysian Agricultural Digest*. [1984]. v. 3(1) p. 1-11. Received Jun 1984. [Agricultural policies; Malaysia.]

ONGKILI, M.J. (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Resource Economics and Agribusiness). Towards a theoretical framework for the analysis of technology adoption in developing countries. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia) 14-15 May 1985. 64 leaves. 7 ill., 6 tables; 71 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Innovation adoption; Models; Developing countries.]

SALITA, A.A.JR. (Forest Products Research and Development Institute, Los Banos (Philippines)); FERNANDO, E.S. Country report: The Philippines [Rattans]. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 231-239. 5 tables; 4 ref. Received Jul 1985. [Rattans; Philippines.]

SILITONGA, T. (Forest Products Research and Development Centre, Bogor (Indonesia)). Country report; Indonesia [Rattans]. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 217-219. 1 tables; 3 ref. Received Jul 1985. [Rattans; Indonesia.]

TAY, T.H.; CHAN, Y.K. (Malaysian Agricultural Research & Development Institute, Serdang, Selangor). A retrospect of the findings of the techno-economic survey of the Malaysian fruit industry: its significance in the formulation of some research and development programmes. (En). **Malaysian Agricultural Digest**. [1984]. v. 3(1) p. 39-50. 14 ref. Received Jun 1985. [Fruits; Industry; Malaysia/Surveys.]

VIJAYA BHARATHI, G. Cocoa: Weathering speculation. Commodities. (En). **Malaysian Business**. ISSN 0126-5504. (16 Jun 1985). p. 77-78. Received Aug 1985. [Cocoa; Production; Price formation.]

VONGKALUNG, I. (Kasetsart University, Bangkok (Thailand). Faculty of Forestry). Country report: Thailand [Rattans]. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985 p. 241-243. 2

tables. Received Jul 1985. [Rattans; Thailand.]

XU, H.C. (Chinese Academy of Forestry, Guangzhou (China). Tropical Research Inst.) Country report: China [Rattans]. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 209-211. 3 ref. Received Jul 1985. [Rattans; China.]

ZAINUL AKBAR BIN MOHD, NOR; KHAW, R.H.P. (United Malayan Banking Corp. Bhd., Kuala Lumpur (Malaysia)). Public-private sector co-operation in agricultural food production and processing. (En). **UMBC Economic Review (Malaysia)**. ISSN 0126-5520. 1984. v. 20(2) p. 72-83. 1 ill., 1 table. Received Jun 1985. [Food production; Food technology; Malaysia/Cooperation; Public ownership; Private ownership.]

E12: Buruh dan Pekerjaan

TAI, S.Y.; CHEW, T.A. (Universiti Pertanian Malaysia, Serdang, Selangor). Is off-farm labour supply of farmers wage elastic?: Evidence from Kemubu, Kelantan (Peninsular Malaysia). (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 18 leaves. 3 tables; 15 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Hired labours; Surveys; Remuneration; Peninsular Malaysia.]

E14: Ekonomi dan polisi pembangunan

ZULKIFLY HAJI MUSTAPHA (Universiti Kebangsaan Malaysia, Bangi, Selangor. Dept. of Agricultural & Resources Economics). Food production policies and food security in Malaysia: Issues and implication. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 35 leaves. 8 tables; 16 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Food policies; Food supply; Malaysia.]

E16: Ekonomi pengeluaran

KUPERAN, K.; MOHD. ARIFF HUSSEIN (Universiti Pertanian Malaysia, Serdang, Selangor). Agricultural productivity in Peninsular Malaysia (1960-1980). (En). [Malaysian Agricultural

Economics Association Conference on Current Issues in Malaysia Agriculture]. 14-15 May 1985. 30 leaves. 10 graphs; 8 tables; 11 ref. 1 appendix. Summary (En)*Library, Universiti Pertanian Malaysia. [Crops; Productivity; Peninsular Malaysia.]

E20: Penyusunan, pentadbiran dan pengurusan perusahaan pertanian atau ladang

CRAB, R. A. Kementerian Pertanian Malaysia, Kuching (Sarawak). Dept. of Agriculture. A farm management approach to research and extension in Sarawak. National Extension Project. (En). Kuching (Sarawak). 1983. 32 p. Includes bibliographies. Received Jun 1985. *Kementerian Pertanian Library. [Farmland; Sarawak/Farming systems; Farm management; Extension activities; Research.]

DUCKETT, J. E. Incorporated Society of Planters, Kuala Lumpur (Malaysia). "The man behind the tree" or the professional planter [in Malaysia]. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Jul 1985). v. 61(712) p. 316-321. Speech at the society's Annual General Meeting on 11 May 1985. Received Aug 1985. [Farmers; Malaysia/Plantations.]

HORII, K. (Institute of Developing Economics, Tokyo (Japan). Area Study Dept.) The farming system and mechanism of income distribution in a system and mechanism of income distribution in a Felda [Federal Land Development Authority] scheme: A study of the block system in the Trolak Utara [Peninsular Malaysia] oil palm scheme. (En). *Land Development Digest (Malaysia)*. ISSN 0126-6162. 1984. v. 6(2) p. 1-18. 1 ill., 8 tables. Received Aug 1985. [Oil Palms; Farming systems; Peninsular Malaysia.]

JAYAWARDENA, M.P.G.S. (Blenheim Estate, Sungai Sumun, Perak (Malaysia)). Comparative view of management in the plantation industry in Sri Lanka and Malaysia. (En). International Conference "75 yrs. of rubber research in Sri Lanka", Colombo (Sri Lanka). 17-19 Sep 1984. *Planter (Malaysia)*. ISSN 0126-575x. (Jun 1985). v. 61(711) p. 262-273. 3 graphs; 6 ref. Received Aug 1985. [Plantations; Sri Lanka; Malaysia/Business management.]

NARAYANAN, S. (Malaysian Employers Federation, Kuala Lumpur). The development, growth and nature of industrial law in Malaysia. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Jul 1985). v. 61(712) p. 322-326. Speech at the Incorporated Society of

Planters' Annual General Meeting on 11 May 1985. Received Aug 1985. [Workers; Laws; Malaysia.]

WONG, C.Y. (Malaysian Agricultural Research and Development Institute, Serdang, Selangor. Techno-Economic and Social Studies Division). Farm consolidation: Prospects and challenges [in Malaysia]. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agricultural]. Kuala Lumpur (Malaysia). 14-15 May 1985. [27] leaves. 37 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Farm structure; Agricultural policies; Malaysia.]

E21: Industri pertanian

MALAYSIAN AGRICULTURAL RESEARCH DEVELOPMENT INST. (MARDI), SERDANG (MALAYSIA); KEMENTERIAN PERTANIAN MALAYSIA, KUALA LUMPUR (MALAYSIA); Dept. of Agriculture, Kuala Lumpur (Malaysia); Farmers Association Board (LPP), Malaysia. Operational plan for the development of the Malaysian fruit industry. (En). [np]. 1983. 72 p. 15 tables; 8 refs. Received Jun 1985. *Kementerian Pertanian Library. [Tropical fruits; Food industries; Malaysia/Operations research; Development plans; Objectives.]

E50: Sosiologi Desa

DUCKETT, J.E. (Island & Peninsular Groups, Kuala Lumpur. Agricultural Div.) Management contribution to health care on estates in Malaysia. 'What do we have and where do we go?'. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Jun 1985). v. 61(711) p. 277-286. Received Aug 1985. [Plantations; Health; Farm management; Malaysia.]

GIBBONS, D.S. Paddy poverty and public policy [Rice]. A preliminary report on poverty in the Muda Irrigation Scheme Area 1972 and 1982. (En). *Siri monograf (Malaysia)*. no. 7. Penang (Malaysia). Pusat Penyelidikan Dasar. Universiti Sains Malaysia. 1984. 69 p. Bibliography p. 67-69. Received Jul 1985. [Rice; Rural poor; Living standards.]

NURIZAN YAHAYA (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Pengajian Pembangunan Manusia). [Housing satisfaction and renovation among FELDA [Federal Land Development Authority] settlers, in Pahang [Peninsular Malaysia]] Pengubahsuaian dan kepuasan perumahan di kalangan peneroka FELDA, Pahang (Malay). *Land Development Digest (Malaysia)*. ISSN 0126-6162. 1984. v. 6(2)

p. 44-56. 9 tables; 3 ref. Received Aug 1985. [Housing; Peninsular Malaysia/Public services.]

WAN, L.F. (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Resource Economics and Agribusiness). Perspective on integrated rural development in Peninsular Malaysia. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 30 leaves. 7 tables; 28 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Rural development; Peninsular Malaysia.]

ZAABAH HAJI MOHAMAD (Federal Land Development Authority, Kuala Lumpur. Dept. of Social Development Services); Addnan Din. Internal migration and the FELDA [Federal Land Development Authority] experience [Malaysia]. (En). Seminar on Current Population Policy and Research in Malaysia. Port Dickson (Malaysia). 3-5 Dec 1983. **Land Development Digest (Malaysia)**. ISSN 0126-6162. 1984. v. 6(2) p. 19-43. 7 tables; 11 ref. Appendices. Received Aug 1985. [Rural-urban migration; Malaysia.]

E70: Niaga, pemasaran dan edaran

FATIMAH MOHAMED ARSHAD (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Agricultural Economics). The impact of futures trading on crude palm oil (CPO) cash price variability [in Malaysia]. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 17 leaves. 3 tables; 23 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Palm oils; Futures trading; Prices; Malaysia.]

INSTITUT MINYAK KELAPA SAWIT MALAYSIA, BANGI, SELANGOR (MALAYSIA). Statistical summary [of palm oil prices]. (En). **Palm Oil Developments (Malaysia)**. Palm Oil Research Institute of Malaysia Palm Oil Developments. ISSN 0127-3329. (Dec 1984). (no. 2) p. 11-14. 2 ill., 2 tables. [Palm oils; Palm Kernel Oil; Oils; Fats; Malaysia/Prices.]

KEMENTERIAN PERTANIAN MALAYSIA, KUALA LUMPUR. DEPT. OF VETERINARY. Smallholder dairy development programme in Malaysia. Review for development. (En). Kuala Lumpur (Malaysia). 1983. 41 p. Includes map; Appendices; 15 tables. Received Jun 1985. [Dairy cattle; Dairy industry; Small scale farming; Malaysia/Investment; Marketing channels.]

MALAYSIAN RUBBER RESEARCH AND DEVELOPMENT BOARD, KUALA LUMPUR. Statistical data (of rubber). (En). **Malaysian Rubber Review**. ISSN 0127-2969. (Jun 1985). v. 6 (Second Quarter) p. 35. 7 ill., 3 statistical tables. Received Aug 1985. [Rubber; Malaysia/Production; Demand; Exports.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Peninsular Malaysia [wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Nov 1984). v. 11 p. 9-13. 5 p. of statistical tables. Received Jul 1985. [Wood; Exports; Peninsular Malaysia.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Peninsular Malaysia [Wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Feb 1985). v. 2 p. 14. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Peninsular Malaysia.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Peninsular Malaysia [Wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Apr 1985). v. 4 p. 9-13. 5 p. of statistical tables. Received Jul 1985. [Wood; Exports; Peninsular Malaysia.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. Export statistics of Peninsular Malaysia [Wood]. (En). **Maskayu (Malaysia)**. (May 1985). v. 5 p. 9-13. 5 p. of statistical tables. Received Aug 1985. [Wood; Exports; Peninsular Malaysia.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Sabah [Wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Nov 1984). v. 11 p. 14. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sabah.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Sabah [Wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Feb 1985). v. 2 p. 9-13. 5 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sabah.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR (MALAYSIA). Export statistics of Sabah [Wood]. (En). **Maskayu (Malaysia)**. ISSN 0126-771x. (Apr 1985). v. 4 p. 14. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sabah.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. Export statistics of Sabah [Wood]. (En). **Maskayu (Malaysia)**. (May 1985). v. 5 p. 14. 1 p. of

statistical table. Received Aug 1985. [Wood; Exports; Sabah.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. (MALAYSIA). Export statistics of Sarawak [Wood]. (En). *Maskayu (Malaysia)*. ISSN 0126-771x. (Nov 1984). v. 11 p. 15. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sarawak.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. (MALAYSIA). Export statistics of Sarawak [Wood]. (En). *Maskayu (Malaysia)*. ISSN 0126-771x. (Feb 1985). v. 2p. 15. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sarawak.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. (MALAYSIA). Export statistics of Sarawak [Wood]. (En). *Maskayu (Malaysia)*. ISSN 0126-771x (Apr 1985). v. 4 p. 15. 1 p. of statistical tables. Received Jul 1985. [Wood; Exports; Sarawak.]

MALAYSIAN TIMBER INDUSTRY BOARD, KUALA LUMPUR. Export statistics of Sarawak [Wood]. (En). *Maskayu (Malaysia)*. (May 1985). v. 5 p. 15. 1 p. of statistical table. Received Aug 1985. [Wood; Exports; Sarawak.]

MOHD. SHAHWAHID HAJI OTHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Resource Economics). The present and future perspective of the forestry subsector of Peninsular Malaysia. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. [41] leaves. 1 graph; 8 tables; Summary (En). 2 appendices. *Library, Universiti Pertanian Malaysia. [Forestry development; Timber extraction; Marketing; Peninsular Malaysia/ Exports.]

MUSTAPHA RAJA ABDULLAH, NIK; ROSLAN ABD. GHAFFAR (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Resource Economics and Agribusiness). Some aspects of the short run prospects for Malaysian fish exports. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. 24 leaves. 7 tables; 10 ref. Summary (En). *Library, Universiti Pertanian Malaysia. [Fishes; Production possibilities; Exports; Malaysia.]

OTHMAN MOHD. RIJAL (Federal Agricultural Marketing Authority, Kuala Lumpur (Malaysia)). Vegetable marketing by FAMA [Federal Agricultural Marketing

Authority; Malaysia]. (En). [Malaysian Agricultural Economics Association Conference on Current Issues in Malaysia Agriculture]. Kuala Lumpur (Malaysia). 14-15 May 1985. [12] leaves. *Library, Universiti Pertanian Malaysia. [Vegetables; Marketing boards; Malaysia.]

PEPPER MARKETING BOARD, KUCHING, SARAWAK (MALAYSIA). Sarawak pepper exports in November and December 1984. (En). *Warta Pasaran Lada (Malaysia)*. (Jan-Mar 1985). v. 9(1) p. 16-20. 3 tables. [Piper nigrum; Exports; Sarawak.]

SARAWAK TIMBER INDUSTRY DEVELOPMENT CORP., KUCHING. Export of timber and timber products for fourth quarter 1984 [Sarawak]. (En). *Perkasa (Malaysia)*. (May 1985). p. 13-19. 12 tables. Received Jul 1985. [Wood; Exports; Sarawak.]

TONGACAN, A.L. (Forest Products Research & Development Institute, College, Laguna (Philippines)). Proposed Philippine grading rules for unsplit rattan and its derivatives. (En). WONG, K.K.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 169-178. 8 ref. Summary (En). Appendix. Received Jul 1985. [Rattans; Grading; Philippines.]

VIJAYA BHARATHI, G. Corn: Cornering the world's markets [Zea mays]. (En). *Malaysian Business*. ISSN 0126-5504. (16 Jun 1985). p. 78-79. 2 graphs. [Zea mays; Market competition/Ships.]

E73: Ekonomi pengguna

NURIZAN YAHYA; JAIYAH SHAHBUDIN; JARIAH MASJUD (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Human Development Studies). [The influence of socio-economic factors on consumer awareness [in Malaysia]]. Pengaruh faktor-faktor socio-ekonomi terhadap kesedaran pengguna. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 89-97. 7 tables; 21 ref. Summary (En, Malay). Received Jul 1985. [Consumer behaviour; Malaysia/Demography]

SWEET, M.J. (Species of the Orient Pte. Ltd., Singapore). A guide to spice buying (En). Seminar on "spices - What you Need to Know" Subang Jaya, Selangor (Malaysia). 10 Apr 1982. *Food Technology in Malaysia*. (1982-1983). v. 5 p. 30-38. Received Aug 1985. [Spices; Purchasing/Quality; Varieties.]

E80: Ekonomi rumah tangga, industri dan kraf

KEHOE, M.M.; CHAN, L.C. (Jabatan Haiwan, Sandakan, Sabah (Malaysia)). Know your buffalo meat. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Jul 1985). v. 61(712) p. 327-334. Summary (En). Received Aug 1985. [Water buffaloes; Meat cuts/Cooking.]

F: SAINS TUMBUHAN DAN PENGELUARAN

F01: Perusahaan tanaman

DARUS HAJI AHMAD; AMINAH HAMZAH (Forest Research Institute, Kepong (Malaysia)). Nursery techniques for Calamus manan and C. Caesius at the Forest Research Institute nursery, kepong, Malaysia. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong, (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 33-40. 1 ill., 1 table; 8 ref. Summary (En). Received Jul 1985. [Calamus; Plant nurseries; Malaysia.]

GAN, L.T.; CHEW, O.K.; HO, C.Y.; WOOD, B.J. (Sime Darby Plantations, Batu Tiga, Selangor (Malaysia). Ebor Research). A preliminary report on investigations to improve establishment success of stumped buddings in Hevea. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Mar 1985) v. 61(708) p. 118-132. 15 tables; 17 ref. Received Jul 1985. [Hevea; Budding; Plant establishment.]

JANARDHANAN NAIR. Two maladies on marigold [*Tagetes erecta*; Malaysia]. (En). **Plant News (Malaysia)**. Forest Research Institute Kepong. ISSN 0127-306x. (Aug 1984). v. 3(2) p. 8-9. 6 ill., 5 ref. Received Aug 1985. [Compositae; Pest mites; Fusarium; Malaysia.]

LIM, E.S. (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Agronomy and Horticulture). Development of an NFT [Nutrient Film Technique] System of soilless culture for the tropics [Malaysia]. (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 135-144. 7 plates; 5 tables; 6 ref. Summary (En, Malay). Received Jul 1985. [Hydroponics; Malaysia.]

LIM, S.C. Malaysian Rubber Research and Development Board, Kuala Lumpur. Malaysian smallholders' rubber. Issues and approaches in further processing and manufacturing. (En). **MRRDB Monograph (Malaysia)**. no. 10. Kuala Lumpur

(Malaysia). May 1985. 6 tables; 13 ref. Received Aug 1985. [Rubber; Small scale farming; Processing; Malaysia.]

YUSUF MOHAMMED TAIB. Stochastic model for Malaysian palm oil production. (En). **PORIM Bulletin (Malaysia)**. Palm Oil Research Institute of Malaysia. ISSN 0127-0249. (May 1985). (no. 10) p. 25-28. 1 ill., 1 table; 5 ref; Summary (Malay). [Palm oil; Malaysia/Models; Production.]

F02: Pembiakan tumbuhan

DEPARTMENT OF AGRICULTURE, KUCHING, SARAWAK (MALAYSIA). Propagation of two-node pepper [*Piper nigrum*] cutting [in Sarawak]. (En, Malay). **Farmers' Bulletin (Malaysia)**. (Jun 1985). (no. 243) p. 1-3. English. ed. Also issued in Malay. Malay. ed.: Membiak keratan lada dua buku. Received Aug 1985. [Piper nigrum; Plant propagation; Cutting; Sarawak.]

UMALI-GARCIA, M. (University of the Philippines, Los Banos, College, Laguna. College of Forestry). Tissue culture of some rattan species. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 23-31. 1 ill., 4 tables; 13 ref. Summary (En). Appendix. Received Jul 1985. [Rattans; Tissue culture.]

F04: Membaja

FOSTER, H.L.; ZIN ZAWAWI ZAKARIA. Volatilisation losses of nitrogen from urea applied to Malaysian soils, 1: Effect of application rate and the admixture of other fertilisers. (En). **PORIM Bulletin (Malaysia)**. Palm Oil Research Institute of Malaysia. ISSN 0127-0249. (May 1985). (no. 10) p. 1-9. 2 ill., 4 tables; 7 ref. Summary (Malay). Received Jul 1985. [Nitrogen fertilizers; Malaysia/Soils; Application methods.]

JAKHRO, A.A. (Institute of Agriculture, Timbang Menggaris, kota Belud (Sabah)). Optimum phosphorus concentration of rice [*Oryza sativa*] related to different stages of growth. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Mar 1985). v. 61-(708) p. 113-117. 2 ill., 1 table; 9 ref. Summary (En). Received Jul 1985. [Oryza sativa; Phosphate fertilizers/Yields; Tissue analysis.]

ZAHARAH ABDUL RAHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Soil Science Dept.).

[Evaluation of the effectiveness of various types of phosphate fertilizers on growth of maize (*Zea mays*, L.) [in Malaysia]]. Penilaian keberkesanan beberapa jenis baja fosfat ke atas tanaman jagung (*Zea mays*, L.) (Malay). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 99-104. 5 tables; 13 ref. Summary (En, Malay). Received Jul 1985. [Zea mays; Phosphate fertilizers; Malaysia/Evaluation.]

F06: Pengairan

AHMAD ALMAHDALI, DATO' SYED. Monitoring and evaluation at the project level. A case study of the Muda Irrigation Project, Malaysia. (En). Alor Setar, Kedah (Malaysia), Muda Agricultural Development Authority. 1983. 51 p. Received Jul 1985. [Irrigated rice; Malaysia.]

F30: Genetik dan pembiakbaikan tumbuhan

HARDON, J.J. The oil palm: progress through plant breeding in Malaysia. (En). Palm Oil Developments (Malaysia). Palm Oil Research Institute of Malaysia Palm Oil Developments. ISSN 0127-3329. (Dec 1984). (no. 2) p. 7-10. [Oil palms; Malaysia/Plant breeding; Selection.]

F40: Ekologi tumbuhan

NG, F.S.P. Forest Research Institute, Kepong (Malaysia). Plant phenology in the humid tropics. (En). *Research Pamphlet (Malaysia)*. Forest Research Institute Kepong. ISSN 0126-8198. no. 96. Kuala Lumpur (Malaysia). Forestry Department, Peninsular Malaysia. 1984. 95 p. 13 ill. 9 plates; 5 tables; 17 ref. Received Aug 1985. [Plants; Phenology; Tropics.]

F60: Fisiologi dan biokimia tumbuhan

CHAN, W.H. (Syarikat Harrisons Research Unit Sdn. Bhd., Kelang, Selangor (Peninsular Malaysia)). A speculative look at an extended productive life cycle for Hevea. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Jun 1985). v. 61(711) p. 249-261. 1 ill., 9 tables; 25 ref. Summary (En). Received Aug 1985. [Hevea; Life cycle; Maturity.]

GAN, Y.Y. (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Biology). Preparation of extracts from tropical plants for electrophoresis - an analysis of methodology. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 9-20. 3 tables; 85 ref. Summary (En). Received

Jul 1985. [Tannins; Extracts; Electrophoresis.]

LAJIS, N.H. (Universiti Pertanian Malaysia, Serdang, Selangor. Chemistry Dept.); MOHD YUSOF BIN HUSSEIN; TOIA, R.F. Extraction and identification of the main compound present in *Elaeis guineensis* flower volatiles. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 105-108. 1 ill., 8 ref. Summary (En, Malay). Received Jul 1985. [*Elaeis guineensis*; Extraction; Flowers; Essential oils/Composition.]

PARAMESWARAN, N.; LIESE, W. (Der. Bundesforschungsanstalt für Forst-und Holzwirtschaft, Hamburg (German Federal Republic). Institut für Holzbiologie und Holzschutz). Fibre wall architecture in the stem of rotan manau (*Calamus manau*). (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 123-129. 5 ill., 14 ref. Summary (En). Received Jul 1985. [*Calamus*; Stem; Cell structure.]

F62: Fisiologi tumbuhan-pertumbuhan dan Perkembangan

AMINUDDIN MOHAMAD (Forest Research Institute, Kepong (Malaysia)). Performances of some rattan species in growth trials in Peninsular Malaysia. (En).

WONG, K.M.; MANOKARAN, N. (eds.). Rattan Information centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct, 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 49-56. 1 ill., 5 tables; 17 ref. Summary (En). Received Jul 1985. [*Calamus*; Growth; Peninsular Malaysia/Trials; Species.]

DEPARTMENT OF AGRICULTURE, KUCHING, SARAWAK (MALAYSIA). Pineapple flower induction [in Sarawak]. (En, Malay). *Farmers' Bulletin (Malaysia)*. (May 1985). (no. 242) p. 4. Received Aug 1985. English. ed. Also issued in Malay. Malay. ed.: Pengeluaran bunga nenas secara aruhan. [Ananas comosus; Induced flowering; Sarawak.]

ISARA VONGKALUANG (Kasetsart University, Bangkok (Thailand). Faculty of Forestry) A preliminary study of the germination and some ecological aspects of *Calamus peregrinus* in Thailand. (En).

WONG, K.M.; MANOKARAN, N. (eds.). Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct. 1984, Kuala

Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 41-46. 1 table; 4 ref. Summary (En). Received Jul 1985. [Calamus; Germination; Ecology; Thailand.]

NAINGGOLAN, P.H.J. (SEAMEO-BIOTROP Southeast Asian Regional Centre for Tropical Biology, Bogor (Indonesia)). Preliminary observations on the effect of different canopy and soil moisture conditions on the growth of Calamus manan (manau). (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 73-76. 1 table; 3 ref. Summary (En). Received Jul 1985. [Calamus; Transplanting; Growth/Moisture content; Canopy.]

SHIM, P.S.; MUHAMMAD A. MOMEN (Sabah Forestry Development Authority, Kota Kinabalu (Sabah)). A preliminary report on the growth forms of Calamus caesius and C. trachycoleus in SAFODA's [Sabah Forestry Development Authority] Kinabatangan rattan plantation. (En).

WONG, K.M.; MANOKARAN, N. (eds.). Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 63-71. 1 graph; 5 tables; 6 ref. Summary (En). Received Jul 1985. [Calamus; Growth; Plantations; Sabah/Stems.]

TAN, K.C. (Sabah Softwoods Sdn. Bhd., Tawau (Malaysia)). Ethrel stimulated ripening in coffee [Liberica coffee; Robusta coffee]. (En). **Planter (Malaysia)**. ISSN 0126-575x. (May 1985). v. 61(710) p. 214-222. 1 ill., 3 tables; 6 ref. Summary (En). Appendices. Received Aug 1985. [Liberica coffee; Robusta coffee; Stimulation/Maturation; Cost analysis.]

F63: Fisiologi tumbuhan - pengeluaran

MOHAMMAD BASRI BIN WAHID. Developments of the oil palm pollinator, *Elaeidobius kamerunicus* in Malaysia. (En). **Palm Oil Developments (Malaysia)**. Palm Oil Research Institute of Malaysia Palm Oil Developments. ISSN 0127-3329. (Dec 1984) [Oil palms; Pollinators; Coleoptera; Malaysia.]

H: PERLINDUNGAN TUMBUHAN

H10: Perosak tumbuhan

CHIU, S.B. (Dunlop Agro-Management Sdn. Bhd.,

Batang Melaka, Negeri Sembilan (Malaysia)); KHOO, K.C.; MOHD YUSOF HUSSEIN. Extent of rat on *Elaeidobius kamerunicus* Faust, the pollinating weevil of oil palm [*Elaeis guineensis*]. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Mar 1985). v. 61(708) p. 101-112. 6 ill., 2 tables; 6 ref. Summary (En). Received Jul 1985. [*Elaeis guineensis*; Noxious mammals; Rats; Pollinators/Mortality.]

LIM, T.K.; KHOO, K.C. (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Some vascular epiphytes on mango [*Mangifera indica*] and their control. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Apr 1985). 8 plates; 1 table; 8 ref. Received Jul 1985. [*Mangifera indica*; Epiphytes; Control.]

NEHRU, C.R.; JAYARATHNAM, K. (Rubber Research Institute of India, Kottayam, Kerala (India). Plant Pathology Div.) Field evaluation of some granular insecticides against the Indian mole rat, *Bandicota bengalensis* Gray. (En). **Planter (Malaysia)**. ISSN 0126-575x. (Apr 1985). v. 61(709) p. 172-175. 2 tables; 10 ref. Summary (En). Received Jul 1985. [Rats; Insecticides; Evaluation.]

NOORMA OSMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Plant Protection); MORALLO-REJESUS, B. Insecticide resistance in *Sitophilus zeamais* Mots, and *Rhizopertha dominica* (F.) in Indonesia [Pests of rice]. (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 1-7. 5 tables; 15 ref. Summary (En; Malay). Received Jul 1985. [Rice; *Sitophilus*; *Rhizopertha*; Indonesia/Pesticide.]

NORAINI AHMAD; THO, Y.P.; HONG, L.T. (Forest Research Institute, Kepong (Malaysia)). Pests and diseases of rattans and rattan products in Peninsular Malaysia. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 131-135. 4 ref. Summary (En). Received Jul 1985. [Rattans; Fungi; Pest Insects; Peninsular Malaysia.]

H20: Penyakit tumbuhan

CHEE, K.H. (CEPLAC, Itabuna, Bahia (Brazil). EMPRAPA/SUDHEVEA/RRIM Rubber Technical Cooperation Programme); ZHANG, K. M. Diseases of Hevea in South Bahia, Brazil caused by

Phytophthora spp. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Jul 1985). v. 61(712) p. 299-305. 3 ill., 1 table; 11 ref. Received Aug 1985. [Hevea; Phytophthora; Brazil/Blights; Leaves.]

GREGORY, P.H. (11 Topstreet Way, Harpenden, Herts (England)); Griffin, M.J.; Maddison, A.C.; Ward, M.R. Cocoa black pod: a reinterpretation [*Theobroma cacao*] (En). *Planter (Malaysia)*. ISSN 0126-575x. (Apr 1985). v. 61(709) p. 176-194. 3 ill., 3 tables; 3 ref. Received Jul 1985. [*Theobroma cacao*; Phytophthora; Epidemiology.]

KAJORNCHAIYAKUL, P. (Rubber Research Centre, Hat Yai, Thailand), CHEE K.H.; DARMONO, T.W.; DE ALMEIDA, L.C.C. Effect of humidity and temperature on the development of South American leaf blight (*Microcyclus ulei*) of *Hevea brasiliensis*. (En). *Journal of the Rubber Research Institute of Malaysia*. ISSN 0035-953x. (1984). v. 32(pt. 3) p. 217-223. 3 ill., 1 table; 4 ref. Summary (En). Received Jun 1985. [Hevea brasiliensis; Blights; Leaves/Humidity; Temperature.]

H50: Pelbagai penyakit tumbuhan

TEO, L.; HAN, K.J. (Eastern Plantation Agency (J) Sdn. Bhd., Ulu Tiram, Johore (Malaysia). Ulu Tiram Estate). Influence of a genetic disorder (genetic orange spotting symptom) on growth and yield of oil palm. (En). 7 tables; 2 ref. Received Aug 1985. [Oil palms; Genetic disorders/Yields]

H60: Rumpai dan pengawalan rumpai

DUCKETT, J.E. Notes on Asystasia [Weeds in oil palm plantation; Malaysia]. (En). *Planter (Malaysia)*. ISSN 0126-575x. (May 1985). v. 61(710) p. 226-229. 1 ill., 7 ref. Received Aug 1985. [Oil Palms; Weeds; Plantations; Malaysia.]

J: TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/TUAI

J12: Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan

PHAISAL SUPHARNGKASEN. Mites of quarantine importance. pt. 1. (En). *Plant News (Malaysia)*. Forest Research Institute Kepong. ISSN 0127-306x. (Dec 1984). v. 3(3) p. 8-11. 7 ill., 1 table. Received Aug 1985. [Pest mites; Quarantine; Identification.]

SALITA, A.A. JR. (Forest Products Research & Development Institute, College, Laguna

(Philippines)). Techniques for the control of cane quality in small-scale rattan industries in the Philippines (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 163-168. 1 ill., 2 tables; 4 ref. Summary (En). Received Jul 1985. [Rattans; Quality controls; Philippines/Storage; Harvesting.]

SULTHONI, A. (Gadjah Mada University, Yogyakarta (Indonesia). Faculty of Forestry). Preservation problems of rattan in Indonesia (with emphasis on powder-post beetle infestation). (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 137-142. 2 tables; 14 ref. Summary (En). Received Jul 1985. [Rattans; Preservation; Coleoptera; Indonesia/Pest insects.]

K: PERHUTANAN

K01: Perhutanan - Aspek am

FOREST RESEARCH INSTITUTE, KEPONG (Malaysia). Annual reports of the Forest Research Institute 1929-1934 [Peninsular Malaysia]. (En). *Research Pamphlet (Malaysia)*. Forest Research Institute, Kepong. ISSN 0126-8198. no. 97. Kuala Lumpur (Malaysia). Forestry Department, Peninsular Malaysia. 1984. 95 p. Received Aug 1985. [Research Institutions; Forestry; Malaysia.]

FOREST RESEARCH INSTITUT, KEPONG (Malaysia). Annual reports of the Forest Research Institute 1935-1939 [Peninsular Malaysia]. (En). *Research Pamphlet (Malaysia)*. Forest Research Institute, Kepong. ISSN 0126-8198. no. 98. Kuala Lumpur (Malaysia). Forestry Department, Peninsular Malaysia. 1984. 177 p. Received Aug 1985. [Research institutions; Forestry; Malaysia.]

FOREST RESEARCH INSTITUTE, KEPONG (Malaysia). Report of the Forest Research Institute, Kepong 1983 [Malaysia]. (En). *Research Pamphlet (Malaysia)*. Forest Research Institute, Kepong. ISSN 0126-8198. no. 94. Kuala Lumpur (Malaysia). Forestry Department, Peninsular Malaysia. 1984. 140 p. 54 tables; Appendices. Received Aug 1985. [Research institutions; Forestry; Malaysia.]

GONG, W.K.; ONG, J.E.; WONG, C.H. (Universiti

Sains Malaysia, Penang. School of Biological Sciences). Demographic Studies on *Rhizophora apiculata* B1. in the Matang mangrove forest Malaysia. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 64-67. 1 table; 5 ref. Summary only. Received Aug 1985. [Rhizophora; Demography; Malaysia.]

K10: Pengeluaran perhutanan

ABDUL GHANI BIN IBRAHIM (Institute Penyelidikan Getah Malaysia, Kuala Lumpur. Bahagian Kemajuan dan Pelaksanaan Projek). [Manau rattan potential as intercrop in smallholders' rubber area]. Potensi rotan manau sebagai tanaman selingan di kebun kecil getah. (Malay). *Siaran Pekebun (Malaysia)*. ISSN 0126-5806. (Sep 1984). (no.93) p. 56-61. 4 ill. Received Jun 1985. [Rattans; Hevea; Catch crops; Small scale farming.]

AMIR HUSNI BIN MOHD. SHARIFF. Forest Research Institute, Kepong (Malaysia). Detailed - Reconnaissance soil survey of part of Bukit Perangin Forest Reserve and semi-detailed soil survey of Bukit Malut Forest Reserve Pulau Langkawi, Kedah, for teak crop [Peninsular Malaysia]. (En). *Research Pamphlet (Malaysia)*. Forest Research Institute, Kepong. ISSN 0126-8198. no. 95. Kuala Lumpur (Malaysia). Forestry Department Peninsular Malaysia. 1984. [72 p.] 8 ill., 9 tables; Maps, 3, scale 1:50,000. Received Aug 1985. [Tectona grandis; Soil types; Peninsular Malaysia/Surveys.]

AZIAH MOHAMAD YUSOFF; MANOKARAN, N. (Forest Research Institute, Kepong (Malaysia)). Seed and vegetative propagation of rattans. (En). WONG, K.M.; MANOKARAN, N. (eds.). Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 13-21. 18 ref. Summary (En). Received Jul 1985. [Rattans; Plant propagation; Propagation material.]

BASU, S.K. (Botanical Survey of India, Howrah). The present status of rattan palms in India - an overview. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 77-94. 6

tables; 39 ref. Summary (En). Received Jul 1985. [Rattans; Uses; India/Biogeography.]

DRANSFIELD, J. (Royal Botanic Gardens, Kew (UK)). Prospects for lesser known canes [Rattans]. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 107-114. Received Jul 1985. [Rattans; Uses.]

GONG, W.K.; ONG, J.E. (Universiti Sains Malaysia, Penang. School of Biological Science). Studies on the structure and species composition, standing biomass, litter production and natural regeneration of a coastal hill Dipterocarp forest. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 26-38. 1 ill., 3 tables; 13 ref. Summary only. Received Aug 1985. [Dipterocarpaceae; Natural regeneration; Species/Biomass]

MADULID, D.A. (National Museum, Manila (Philippines)). Cultivation trials of rattans in the Philippines. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 57-61. 1 table; 7 ref. Summary (En). Received Jul 1985. [Calamus; Planting; Philippines/Trials; Species.]

MANOKARAN, N. Biological and ecological considerations pertinent to the silviculture of rattans. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 95-105. 1 table; 25 ref. Summary (En). Received Jul 1985. [Rattans; Silviculture/Biology; Ecology.]

K50: Pemprosesan hasil hutan

CHOO, K.T.; DALJEET-SINGH, K. (Forest Research Institute, Kepong (Malaysia)). Rattan processing and utilization in Peninsular Malaysia. (En). WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings

of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 155-161. 1 ill., 1 table; Summary (En). Appendix, Received Jul 1985. [Rattan; Processing; Uses; Peninsular Malaysia.]

FAUZIAH BINTI RAJA TUN UDA, RAJA (Malaysian Handicraft Development corp., Kuala Lumpur. Wisma Batek) Problems and prospects of rattan handicrafts [in Malaysia]. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 185-192. 1 ill., 2 ref. Summary (En). Received Jul 1985. [Rattans; Handicrafts; Malaysia.]

SIPILA, N.K. (Naavakalliontie 2A8, 02120 Espoo (Finland)) Rattan furniture design for small-scale industries in Thailand. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 179-184. Summary (En). Received Jul 1985. [Rattans; Furniture; Design; Thailand.]

YUODODIBROTO, H. (Gadjah Mada University, Yogyakarta (Indonesia). Faculty of Forestry). Anatomy, strength properties and the utilization of some Indonesian rattans. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 117-122. 1 ill., 3 tables; 11 ref. Summary (En). Received Jul 1985. [Rattans; Plant anatomy; Strength; Indonesia.]

YUODODIBROTO, H. (Gadjah Mada University, Yogyakarta (Indonesia). Faculty of Forestry). Processing techniques applied by small-scale rattan manufacturing companies in Indonesia. (En).

WONG, K.M.; MANOKARAN, N. (eds.) Rattan Information Centre, Kepong (Malaysia). Proceedings of the rattan seminar, 2-4 Oct 1984, Kuala Lumpur, Malaysia. Kepong (Malaysia). 1985. p. 145-154. 4 ill., 8 ref. Summary (En). Received Jul 1985. [Rattans; Processing; Indonesia.]

K70: Kerosakan dan perlindungan hutan

SHAM SANI (Universiti Kebangsaan Malaysia, Bangi, Selangor. Dept. of Geography). Microclimate aspects of a lowland Dipterocarp forest in Pasoh,

Negri Sembilan (Peninsular Malaysia) (En). Malaysian National (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Technical report. Kepong, Selangor (Malaysia). 1984. p. 8-17. 1 graph, 3 tables; 3 ref. Summary only. Received Aug 1985. [Dipterocarpus; Microclimates; Peninsular Malaysia.]

L: SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN

L01: Peternakan

MOHD. ALI BIN SUJAN (Institut Penyelidikan Getah Malaysia, Kuala Lumpur. Bahagian Kemajuan dan Pelaksanaan Projek); Abu Bakar bin Atim; Abdul Malek bin Yaakob. [Honey production potential in rubber planting area as side income]. Potensi penghasilan madu lebah di kawasan tanaman getah sebagai hasil samping. (Malay). *Siaran Pekebun (Malaysia)*. ISSN 0126-5806. (Sep 1984). (no. 93) p. 62-71. 4 ill., 2 tables. Received Jun 1985. [Honeybees; Honey; Rubber; Small scale farming.]

SHOBA PURUSHOTHAMAN. Cattle: Ongoing dairy saga [in Malaysia]. Agriculture. (En). *Malaysian Business*. ISSN 0126-5504. (16 Jun 1985). p. 60-63. Received Aug 1985. [Dairy cattle; Malaysia/Agricultural policies.]

L02: Makanan ternakan

MAK, T.K.; HUTAGALUNG, R.I.; TOKIRAN TOGIMIN (Universiti Pertanian Malaysia), Serdang, Selangor. Dept. of Animal Sciences); DASS, S. Performance of Hereford crossbred and Kedah-Kelantan cattle fed a palm kernel cake-based ration. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 53-57. 4 tables; 7 ref. Summary (En, Malay). Received Jul 1985. [Beef cattle; Rations; Palm oils; Crossbreds/Byproducts.]

L10: Genetik dan pembiakan ternakan

KEMENTERIAN PERTANIAN MALAYSIA, KUALA LUMPUR. Dept. of Veterinary. [Breeding of red deer (*Cervus elaphus*) in Malaysia] Menternak rusa merah (*Cervus elaphus*) di Malaysia. (Malay). Kuala Lumpur (Malaysia). 1984. 35 p. 6 tables; Appendices. *Kementerian Pertanian Library. Received Jun 1985. [Deer; Malaysia/Breeding methods; Feeds; Market research.]

L70: Sains Veterinar dan kesihatan

ADNAN, S.; AMIN BABJEE, S.M. (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Veterinary Medicine and Animal Science). Haematology of the Malaysian jungle fowl (*Gallus gallus Spadiceus*). (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 123-126. 2 tables; 11 ref. Summary (En, Malay). Received Jul 1985 [Galliformes; Blood; Malaysia/Blood composition.]

OMAR ABDUL RAHMAN, SHEIKH; MNOHD. ZAMRI SAAD (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Veterinary Medicine). Analysis of case records of foetal deaths in livestock in Serdang, Selangor [Malaysia]. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985) v. 8(1) p. 151-153. 1 tables; 9 ref. Summary (En, Malay). Received Jul 1985. [Livestock; Foetal death; Malaysia.]

SULTAN MOHNA, SYED; YAP, T.C. (State Veterinary Office Selangor, Petaling Jaya (Malaysia)). Porcine lung survey at Shah Alam abattoir - a note [Swine; Malaysia]. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 49. 1 ref. Received Jul 1985. [Swine; Lungs; Surveys; Abattoirs; Malaysia.]

L72: Perosak haiwan

JEFFERY, J. (University Kebangsaan Malaysia, Kuala Lumpur. Dept. of Parasitology). VELLAYAN, S.; MOHD. ZAHEDI; OOTHUMAN, P.; KRISHNASAMY, M. Stomach bot, *Gasterophilus ternicinctus* Gedoelst, in Burchell's Zebra, *Equus burchelli* at Zoo Negara, Malaysia. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 22-23 2 ill., 6 ref. Summary (En). Received Jul 1985. [Zebras; Gasterophilidae; Parasites; Malaysia.]

VELLAYAN, S. (Zoo Negara, Ulu Kelang (Malaysia)); JEFFERY, J.; OOTHUMAN, P.; MOHD. ZAHED; KRISHNASAMY, M. Cutaneous myiasis due to *Chrysomya bezziana* Villeneuve (Diptera: Calliphoridae) in a sea-lion, *Zalophus californianus* at Zoo Negara, Malaysia (En). *Malaysian Veterinary Journal*. (Dec 1984) v. 8(1) p. 19-21. 1 table; 6 ref. Summary (En). Received Jul 1985. [Sea-lions; Myiasis; Malaysia.]

L73: Penyakit-penyakit haiwan

LO, E.K.C. (Ministry of Health, Kuala Lumpur (Malaysia)). The epidemiology and control of rabies and other zoonotic diseases in Malaysia.

29. Scientific Conference, Malaysian Veterinary Association. Kuala Lumpur (Malaysia). 15 Sep 1984. *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 3-8. 2 tables. Received Jul 1985. [Rabies; Epidemiology; Control; Malaysia.]

MCDUGALD, L.R. (University of Geogi, Athen (USA). Dept of Poultry Science). A field outbreak of coccidiosis in broilers caused by *Eimeria necatrix* [in Malaysia]. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 24-26. 4 ref. Summary (En). Received Jul 1985. [Chickens; Coccidiosis; Eimeria; Malaysia.]

MAK, J.W. (Institute for Medical Research, Kuala Lumpur (Malaysia)). Zoonotic filariasis in Malaysia. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 9-12. 1 ill., 3 tables; 17 ref. Summary (En). Received Jul 1985. [Zoonoses; Dogs; Cats; Malaysia/Parasites; Mankind.]

VATTANODORN, S. (Chulalongkorn University, Bangkok (Thailand). Faculty of Veterinary Science); INDER-SINGH, K.; KRISHNASAMY, M. A preliminary survey of helminth endoparasites of the domestic fowl *Gallus domesticus* L. from aborigine settlements with some new records. (en). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 13-18. 2 tables; 10 ref. Summary (En). Received Jul 1985. [Poultry; Helminths; Surveys; Malaysia.]

L74: Pelbagai penyakit haiwan

KEHOE, M.M.; CHAN, L.C. (Jabatan Haiwan, Sandakan (Sabah)). Clinical communications; Thiaminase poisoning in humans [in Sabah]. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 47-48. Summary (En). Received Jul 1985. [Cats; Mankind; Poisoning; Thiamin.]

VELLAYAN, S. (Zoo Negara, Ulu Kelang, Selangor (Malaysia)); MOHD. YUSOF SAID. Barbiturate poisoning in Sumatran tigers (*Panthera tigris sumatrae*) at Zoo Negara, Malaysia. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 27-32. 4 tables; 4 ref. Summary (En). Received Jul 1985. [Tigers; Barbiturates; Poisoning; Malaysia.]

M: PERIKANAN DAN AKUAKULTUR

MD1: Perikanan dan akuakultur - Aspek am

PHANG, S.M. (University of Malaya, Kuala Lumpur (Malaysia). Botany Dept.). Seaweed resources of Malaysia. (En). *Wallaceana (Malaysia)*. A global

newsletter for tropical ecology. ISSN 0126-8236. (Dec 1984). (no. 38) p. 3-8. 2 ill., 2 tables; 31 ref. Received Jun 1985. [Algae; Uses; Malaysia.]

M11: Pengeluaran perikanan

EDI MULJADI AMIN; CHAI, H.L.; SELVANATHAN, S.; ABDUL HAMID YASIN. Kementerian Pertanian Malaysia, Kuala Lumpur. Dept. of Fisheries. Acoustic survey of pelagic fish resources in the waters of the east coast of Peninsular Malaysia (19th August-21st September 1981). (En). Kuala Lumpur (Malaysia). 1984. 23 p. 3 tables; Appendices. *Kementerian Pertanian Library. [Pelagic fisheries; Research vessels; Peninsular Malaysia.]

M12: Pengeluaran dan pengurusan akuakultur

CHEAH, S.H.; SHARR, H.A.; ANG, K.J.; KABIR, A. (Universiti Pertanian Malaysia, Serdang, Selangor Dept. of Fish Biology and Aquaculture). An evaluation of the use of egg yolk, *Artemia* nauplii, microworms and *Moina* as diets in larval rearing of *Helostoma temminckii* Cuvier and *Valenciennes*. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 43-51. 1 ill., 4 tables; 26 ref. Summary (En, Malay). [Ornamental fishes; Egg yolks; Diet; Fish feeding.]

DEPARTMENT OF AGRICULTURE, KUCHING, SARAWAK (MALAYSIA). Common local feed for pond fish (in Sarawak). (En, Malay). *Farmers' Bulletin (Malaysia)*. (Jun 1985). (no. 243) p. 4. English. ed. Also issued in Malay. Malay. ed.: Bahan makanan tempatan untuk ikan kolam. Received Aug 1985. [Freshwater fishes; Fish feeding; Sarawak.]

DEPARTMENT OF AGRICULTURE, KUCHING, SARAWAK (MALAYSIA). Pond culture of udang galah [prawns]. (En, Malay). *Farmers' Bulletin (Malaysia)*. (May 1985). (no. 242) p. 1-3. English. ed. Also issued in Malay. Malay. ed.: Received Aug 1985. [Prawns; Ponds; Crustacean culture.]

M40: Ekologi akuatik

LEE, Y.S. (Universiti Malaya, Kuala Lumpur (Malaysia). Dept. of Zoology). Aquatic fauna of the upper Klang River Basin in relation to landuse [Peninsular Malaysia]. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 46-

57. 5 tables; 7 ref. Summary only. Received Aug 1985. [Aquatic animals; Land use; Peninsular Malaysia.]

LEH, C.M.U. (Universiti Malaya, Kuala Lumpur (Malaysia). Dept. of Zoology). The ecology of sesarminae with special reference to the productivity of *Chiromantes anychophorum* (De Man) and *C. eumolpe* (De Man) in a Malayan mangrove swamp [Peninsular Malaysia]. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 39-45. Received Aug 1985. 2 tables; 7 ref. Summary only. [Fauna; Mangrove swamps; Peninsular Malaysia.]

LEONG, T.S.; LEONG, Y.K.; HO, S.C.; KHOO, K.H. KAM, S.P.; SULAIMAN HANAPI; WONG, T.M. (Universiti Sains Malaysia); LEGORE, R.S. (Environmental Sc. & Engineering Inc., Florida (USA)). An environmental baseline study of the macrobenthos in vicinity of the crude oil terminal, Seria, Brunei. (En). Pulau Pinang (Malaysia). Pusat Pengajian Sains Kajihayat, Universiti Pertanian Malaysia. 1984. Bibliography p. 314-332. Received Jul 1985. [Benthic environment; Aquatic plants; Benthos.]

P: SUMBER ALAM DAN SEKITARAN

P01: Pemuliharaan alam dan sumber tanah

VELLAYAN, S. (Zoo Negara, Ulu Kelang, Selangor (Malaysia)); HUTAGALUNG, R.I. The design of a metabolic cage for the lar gibbon (*Hylobates lar*). (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 33-37. 8 ill., 1 tables; 2 ref. Summary (En). Received Jul 1985. [Primates; Cages; Design.]

P10: Sumber air dan pengurusan

LAI, F.S.; SAMSUDDIN, M. (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Forestry). Suspended and dissolved sediment concentrations of two disturbed lowland forested watersheds in Air Hitam Forest Reserve, Selangor [Peninsular Malaysia]. (En). *Pertanika (Malaysia)*. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 115-122. 3 ill., 3 tables; 16 ref. Summary (En, Malay). Received Jul 1985. [Watersheds; Sediment pollution; Timber extraction; Peninsular

Malaysia.]

P33: Kimia dan fizik tanah

ABU TALIB BACHIK. Removal of iron and aluminium interferences in boron determination from soil extracts [Hevea]. (En). *Journal of the Rubber Research Institute of Malaysia*. ISSN 0035-953x. (1984). v. 32(pt. 3) p. 182-190. 5 tables; 16 ref. Summary (En). Received Jun 1985. [Hevea; Boron; Chemical analysis/Iron; Aluminium.]

NORHAYATI MORIS, Characterisation of organic matter in four soils of Peninsular Malaysia, 3: Characteristics of metal fulvate and etal humate complexes prepared in the laboratory. (En). *Journal of the Rubber Research Institute of Malaysia*. ISSN 0035-953x. (1984). v. 32 (pt.3) p. 207-216. 8 graphs; 2 tables; 6 ref. Summary (En). Received Jun 1985. [Soil types; Organic matter; Peninsular Malaysia/Chemical analysis.]

P34: Biologi tanah

AHMAD IKRAM; MAHMUD ABDUL WAHAB. Encomycorrhizal fungi in soils under rubber [Hevea]. (En). *Journal of the Rubber Research Institute of Malaysia*. 0035-953x. (1984). v. 32(pt. 3) p. 198-206. 2 ill., 1 table; 10 ref. Summary (En). Received Jun 1985. [Hevea; Mycorrhizae; Cover plants.]

P35: Kesuburan tanah

LEE, C.H. (Sabah Softwood Sdn. Bhd., Tawau (Malaysia)). The correction of acidity on sedimentary soils used to grow cocoa [Theobroma cacao] in Sabah. (En). *Planter (Malaysia)*. ISSN 0126-575x. (Apr 1985). v. 61(709) p. 154-161. 1 ill., 6 tables; 13 ref. Summary (En). Received Jul 1985. [Theobroma cacao; pH; Soil types; Sabah/Agricultural lime.]

YEW, F.K.; PUSHPARAJAH, E. Plant tissues as indicators of soil nutrient availability for Hevea: Glasshouse evaluations. (En). *Journal of the Rubber Research Institute of Malaysia*. ISSN 0035-953x. (1984). v. 32(pt. 3) p. 171-181. 8 tables; 11 ref. Summary (En). Received Jun 1985. [Hevea; Nutrient availability; Tissue analysis.]

P36: Hakisan, pemuliharaan dan penubusgunaan tanah

ZULKIFLI AHMAD; SHAMSUDDIN BIN JUSOP. The effect

of palm oil mill effluent on the charge characteristics of two weathered soils [in Peninsular Malaysia]. (En). *PORIM Bulletin (Malaysia)*. Palm Oil Research Institute of Malaysia. ISSN 0127-0249. (May 1985). (no. 10) p. 10-15. 5 tables; 10 ref. Summary (Malay). Received Jul 1985. [Palm oils; Byproducts; Peninsular Malaysia/Soils; Weathering; Chemico-physical properties.]

P40: Meterologi dan kaji iklim

LEONG, Q.C. On the relationship between Pacific Ocean surface wind stress and the Malaysian rainfall over the southern oscillation frequency range. (En). *Research publication (Malaysia)*. no. 11. Petaling Jaya, Selangor (Malaysia). Perkhidmatan Kaji cuaca Malaysia. 1984. 5 p., [10] lvs. [Wind power; Rain.]

SHAHARUDDIN HAJI AHMAD (Universiti Kebangsaan Malaysia, Bangi, Selangor. Dept. of Geography). Diurnal variations of microclimate in the Pasoh Forest Reserve, Negri Sembilan, Malaysia. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 18-25. 2 graphs; 1 ref. Summary only. Received Aug 1985. [Tropical rain forests; Microclimate; Malaysia.]

YAP, K.S.; LUM, K.G.; CHEANG, B.K. Perkhidmatan Kaji cuaca Malaysia, Petaling Jaya, Selangor. Active and break cycles over the South China Sea - Malaysia region during winter monsoon. (En). *Research publication (Malaysia)*. no. 6. Perkhidmatan Kaji cuaca Malaysia. 1984. 19 p. 9 ref. Received Jul 1985. [Winds; Rains; Meteorology.]

Q: MEMPROSESAN HASIL PERTANIAN

Q01: Sains & Teknologi Makanan

BERRY, S.K. (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Food Science and Technology). Chemistry of spices. (En). Seminar on "spices - What You Need to Know". Subang Jaya, Selangor (Malaysia). 10 Apr 1982. *Food Technology in Malaysia*. (1982-1983). v. 5 p. 39-46. 25 ref. Summary (En). Received Aug 1985. [Spices; Chemistry.]

Q02: Pemrosesan dan pengawetan makanan

ADINAN HUSIN (Malaysian Agricultural Research and Development Institute, Serdang, Selangor. Agricultural Products Utilisation Div.) Fruit Products development - An overview (En). Seminar on Food Product Development. Petaling Jaya, Selangor (Malaysia). 4 Apr 1981. **Food Technology in Malaysia**. (1982-1983). v. 5 p. 25-29. Received Aug 1985. 8 ref. Summary (En). [Fruit products; Industrial development.]

BERGER, K.G. Handling and storage of palm oil [in Malaysia]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 80-87. 2 tables; 4 ref. [Palm oils; Malaysia/Storage; Handling.]

GIAN, H.L.; CHUA, N.S.; GIAN, H.F. Pretreatment of crude palm olein [palm oil] in physical refining process. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 106-126. 9 ill., 22 tables; 17 ref. Summary (En). [Palm oils; Olein/Purification; Degumming; Processing.]

MACLELLAN, M. Problems in the [palm oil] refining industry. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 154-160. 2 ill. [Palm oils/Oils industry; Purification; Fatty acids; Phospholipids.]

MOHD. ALI HASSAN (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Food Technology). Production of spray-dried coconut (*Cocos nucifera*) milk powder. (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 127-130. 1 ill., 4 tables; 8 ref. Summary (En, Malay). Received Jul 1985. [*Cocos nucifera*; Dried milk/Production.]

MOHD. ALI HASSAN; DZULKIFLY MAT HASHIM; RUSSLY ABDUL RAHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Food Technology). (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8 (1) p. 79-88. 6 ill., 4 tables; 9 ref. Summary (En, Malay). Received Jul 1985. [Food; Freezing/Heat transfer.]

OH, F.C.H. Effect of tempering procedure on solid fat content determination of cocoa butter and substitutes. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 246-254. 2 ill., 4 tables; 6 ref. Summary (En). [Palm oils; Cocoa industry; Butter/Lipid content; Glycerides; Fractionation.]

SWOBODA, P.A.T. Chemistry of palm oil processing in relation to quality. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 93-96. 8 ref. Summary (En). [Palm oils/Degumming; Bleaching; Quality; Chemistry; Processing.]

YU, S.Y. (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Food Science and Technology). Food product development. Petaling Jaya, Selangor (Malaysia). 4 Apr 1981. **Food Technology in Malaysia**. (1982-1983). v. 5 p. 19-24. 14 ref. Summary (En). [Food industries; Industrial development.]

Q04: Kandungan makanan

BERGER, K.G. Two case studies in quality control [of palm oil]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 234-239. 1 ill., 3 tables. [Palm oils/Bakery products; Quality control.]

CHONG, C.L.; ABDUL GAPOR MOHAMMED TOP. Effect of moisture and trace metals on oil quality [of palm oil]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 46-66. 8 ill., 7 tables; 14 ref. Summary (En). [Palm oils/Trace elements; Moisture content; Quality; Oxidation; Analysis.]

DE VRIES, R.J.; TAN, T.S. Quality of palm oil in relation to end products. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985.

p. 144-153. 4 tables; Summary (En). [Palm oils; Malaysia/Oil products; Feeds; Fatty acids; Quality.]

ER, K.L. Quality control laboratories in [palm oil] refineries. (En). p. 144-153. 4 tables; Summary (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 203-208. 3 ill., 2 tables; 1 ref. [Palm oils/Oils industry; Purification; Quality control.]

GEE, P.T.; GOH, S.H.; TONG, S.L. Phospholipid and phosphate analysis in crude palm oil. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 127-130. 2 tables; 17 ref. Summary (En). [Palm oils/Phospholipids; Phosphates; Fatty acids; Analysis.]

HIGUCHI, M. Quality control in oil refineries. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 240-245. 7 tables; 7 ref. Summary (En). [Palm oils/Oils industry; Purification; Quality control; Phospholipids; Chlorophylls; Metals.]

KHEIRI, M.S.A. Analysis for downstream products [oils and fats]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 189-194. 3 tables; Summary (En). [Oils; Fats/Quality; Testing.]

KRISHNAN, S. Alkali refining and quality of palm oil. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 131-143. 4 ill.; 7 tables; 4 ref. Summary (En). [Palm oils; Purification/Alkali metals; Exports; Fractionation; Quality.]

LEONG, DATO K.S. Opening address by the Honourable Minister of Primary Industries, Malaysia, Dato Leong Khee Seong [Palm oil; Quality; Malaysia] (En). Institut Penyelidikan Minyak

Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 1-4. [Palm oils; Malaysia/Oils industry; Quality.]

LIM, K.H. Palm oil mill quality control laboratories. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 209-222. 8 ill., 2 tables; 2 ref. Summary (En). [Palm oils /Oils industry; Quality control.]

LO, C.K. (Yeo Hiap Seng Bhd. Petaling Jaya, Selangor (Malaysia)). Nutritive value of canned foods. (En). Seminar on Canning Technology, Serdang, Selangor (Malaysia). 26 Sep 1981. **Food Technology in Malaysia**. (1982-1983). v. 5 p. 15-18. 3 ref. Summary (En). Received Aug. 1985. [Canned products; Nutritive value.]

Q60: Pemprosesan hasil pertanian yang bukan makanan manusia dan bukan makanan ternakan

ONG, A.S.H. Highlights of research on non-food uses of palm oil and analytical. (En). **Palm Oil Developments (Malaysia)**. Palm Oil Research Institute of Malaysia Palm Oil Developments. ISSN 0127-3329. (Dec 1984) (no. 2) p. 4-6. 2 col. plates. [Palm oils/Research; Uses; Analysis.]

Q80: Pembungkusan

CHIA, T.E. (Metal Box, Singapore) Can development in the eighties. (En). Seminar on Canning Technology, Serdang, Selangor (Malaysia). 26 Sep 1981. **Food Technology in Malaysia**. (1982-1983). v. 5 p. 6-8. 5 ill., Summary (En). Received Aug 1985. [Canning.]

CH'NG, G.C.; YEAP, E.K. (Metal Box Malaysia Bhd., Petaling Jaya, Selangor) Can handling and post process control. (En). Seminar on Canning Technology, Serdang, Selangor (Malaysia). 26 Sep 1981. **Food Technology in Malaysia**. (1982-1983). v. 5 p. 6-8. 5 ill., Summary (En). Received Aug 1985. [Canning.]

MOHD. YUSOF ABU (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Food Science and Technology). Principles of thermal processing [in

canning industry] (En). Seminar on Canning Technology. Serdang, Selangor (Malaysia). 26 Sep 1981. **Food Technology in Malaysia**. (1982-1983) v. 5 p. 9-14. 5 ill., 3 tables; ref. Summary (En). [Canning industry; sterilizing.]

S: PEMAKANAN MANUSIA

S01: Pemakanan manusia - Aspek am

MOHD. NORDIN ABD. KARIM (Universiti Pertanian Malaysia, Serdang, Selangor. Dept. of Food Science). Energy expenditure of a group of students at Universiti Pertanian Malaysia (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 155-157. 2 tables; 7 ref. Summary (En, Malay). Received Jul 1985. [Energy exchange; Students; Malaysia.]

T: PENCEMARAN

T01: Pencemaran

CONSUMERS' ASSOCIATION OF PENANG (Malaysia). Toxic chemical and hazardous waste management in Malaysia. (En). **CAP report (Malaysia)**. no. 4. Penang (Malaysia). Consumers' Association of Penang. 1984. 32 p. 9 ref. Received Jul 1985. [Industrial pollutants; Waste disposal; Pollution control.]

LAW, A.T.; AZAHAR OTHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Fisheries and Marine Science) Fecal coliform bacteria distribution in the coastal waters of Port Dickson [Peninsular Malaysia]. (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). v. 8(1) p. 131--134. 1 ill., 1 table, 5 ref. Summary (En, Malay). Received Jul 1985. [Sewage; Water pollution; Peninsular Malaysia/Bacteria.]

LIM, A. Agricultural chemicals: In search of a safer approach [in Malaysia]. Marketing focus. (En). **Malaysian Business**. ISSN 0126-5504. (16 Jun 1985). p. 47-49. Received Aug 1985. [Fertilizers; Herbicides; Pesticides; Malaysia/Pollution control.]

LIM, R.P. (Universiti Malaya, Kuala Lumpur (Malaysia). Dept. of Zoology). The effects of pesticides on the aquatic fauna in ricefields. (En). Malaysian National MAB Committee, Kepong, Selangor. Programme on Man and Biosphere (MAB) in Malaysia, Project Area no. 1, Ecological effects of increasing human activities on tropical and

subtropical forest ecosystems. Kepong, Selangor (Malaysia). 1984. p. 58-63. 5 tables. Summary only. Received Aug 1985. [Pesticides; Aquatic animals; Irrigated rice.]

LOW, K.S.; LEE, C.K.; LOI, S.T. (Universiti Pertanian Malaysia, Serdang, Selangor. Chemistry Dept.); AZHAR PHOON. The use of the moss, *Calymperes delessertii* Besch., as a bioindicator to airborne heavy metals. (En). **Pertanika (Malaysia)**. ISSN 0126-6128. (Apr 1985). V. 8(1) p. 109-114. 7 graphs; 13 ref. Summary (En, Malay). Received Jul 1985. [Air pollution; Heavy metals; Indicator plants.]

MOOLAYIL, J. Sensory evaluation in quality control [of food]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 195-2-2. 1 ill., Summary (En). [Oils/Quality control; Household consumption; Evaluation.]

NG, S.B.; SOUTHWORTH, A. Field practices and palm oil quality. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 7-14. 7 ill., 1 table; 4 ref. [Palm oils; Oil palms; Fresh fruits/Fields; Fatty acids; Quality; Harvesting.]

RAJANAIDU, N.; TAN, Y.P.; CHOW, C.S. Comparison of bunch and oil quality [in oil palm]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 38-45. 1 ill., 7 tables; 9 ref. Summary (En). [Palm oils; Oil palms; Coleoptera/Fresh fruits; Polination; Quality.]

SIEW, W.L. Essential analyses and collaborative trials [with palm oils]. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 067-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 167-178. 2 ill., 10 tables; 3 ref. Summary (En). [Palm oils; Malaysia/Quality; Seasonal development.]

SWOBODA, P.A.T.; LIM, K.H. Seasonal variation of [palm oil] oil quality [in Malaysia]. (En). Institut Penyelidikan Minyak Kelapa Sawit

Malaysia, Bangi, Selangor, (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 75-79. 4 ill., 1 table; Summary (En). [Palm oils; Malaysia/Quality; Seasonal development.]

TAN, B.K. Desirable analyses for quality and process control in the palm oil industry. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 179-188. 2 ill., 7 tables; 10 ref. Summary (En). [Palm oils/Oils industry; Quality control; Processing; Spectrometry; Chromatography; Analysis.]

TAN, B.K. The effects of oil quality on palm oil fractionation. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 97-105. 2 ill., 6 tables; 7 ref. Summary (En). [Palm oils/Fatty acids; Fractionation; Quality.]

TAN, T.S. Palm kernel [oil] quality. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 67-74. 4 ill., 6 tables; Summary (En). [Palm-kernel oil; Malaysia/Quality; Production.]

TIMMS, R.E. Use of a desk-top computer in the [palm oil] laboratory and refinery. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 223-233. 3 ill., 1 table; Summary (En). [Palm

oil/Oils industry; Computers; Purification; Uses.]

WONG, S.; LEE, S.L. Some preliminary quality aspects of crude palm oil with reference to refined palm oil during the high and low crop season. (En). Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Bangi, Selangor (Malaysia). Proceedings of Workshop on Quality in the Palm Oil Industry. ISBN 967-961-005-5. Bangi, Selangor (Malaysia). 1985. p. 15-37. 10 ill., 9 tables; 4 ref. [Palm oils; Oils palms/Crops; Purification; Bleaching; Crystallisation; Quality; Fatty acids.]

Q52: Pemprosesan dan pengawetan makanan ternakan

GANABATHI, S. (Institut Haiwan, Kluang, Johor (Malaysia)). The use of palm kernel cake for milk production in Malaysia. (En). *Malaysian Veterinary Journal*. (Dec 1984). v. 8(1) p. 38-46. 3 ill., 7 tables; 6 ref. Summary (En). Received Jul 1985 [Oil palms; Concentrates; Milk production; Malaysia.]

YEOW, K.H.; AHMAD YEOP (Harrisons Malaysian Plantation Berhad, Kuala Lumpur. Oil Palm Research Station. Status of effluent utilisation in Malaysia. (En). *Malaysian Agricultural Digest*. (1984). v. 3(1) p. 28-33. 3 tables; Received Jun 1985. [Wates; Uses; Malaysia.]

U: METODOLOGI

U10: Kaedah matematik dan statistik

KHALID MOHD. NOR (Universiti Pertanian Malaysia, Serdang, Selangor. Fakulti Pertanian). [The use of statistics in research]. Penggunaan statistik dalam penyelidikan. (Malay). *Malaysian Agricultural Digest*. [1984] v. 3(1) p. 34-38. [Research; Statistical methods, Malaysia.]

istilah Pertanian Pilihan

Bahasa Inggeris

Bahasa Malaysia

A

abortion	- keguguran
acid soil	- tanah asid/masam
acidic effects	- kesan/efek asid
active ingredient	- bahan aktif
acute	- tirus
adjustable spanner	- sepana hidup
adsorption complex	- kompleks jerapan
adsorption of cations	- jerapan kation
adventive	- adventif
aeration	- pengudaraan/aerasi
aerial sucker	- sulur udara
air-dried sheet	- keping kering udara
air dry	- kering udara
air layering/marcot	- tut/markot/cangkuk
air sacs	- pundi udara
aitch bone	- tulang pinggul
ala	- sayap
alate	- bersayap
albic horizon	- horizon alvik
aleurone grain	- butir aleuron
alkalization	- alkalisasi
allitic soil	- tanah alit
altered soil	- tanah pinda
alternate crop	- tanaman selang
anaerobic process	- process anaerobik
anaerobic respiration	- respirasi anaerobik
animal breeding	- pembiakbaik ternakan
animal husbandry	- peternakan
annual increment	- riap
antenna	- sesungut/antenna
anther	- cepudbunga/anter
antiseptic	- antikuman/antiseptik
approach grating	- cantum sanding
arable	- suaitani
aridic	- kegersangan
arrowroot (Maranta)	- ubi garut/berohi
arundinacea)	(Maranta arundinacea)
aseptic culture	- Kultura aseptik
assam fork	- cangkul serampang
awn (cereal)	- jejanggut (bijirin)

B

back mutation	- mutasi ke asal
---------------	------------------

balance of nature	-imbangan alam
banana freckle	- bintik-bintik pisang
(<i>Macrophoma musae</i>)	(<i>Macrophoma musae</i>)
band placement	- cara jalur
applicatis	
basicity of fertilizers-	kebesan baja
battery cage (poultry)	- sangkar bersekat (ayam)
battery system	- sistem sangkar bersekat
(poultry)	- (ayam)
biennial crop	- tanaman dwitahun
bile	- hempedu
biological interchange	- saling tukar biologi
bird's nest fern	- paku langsuyar
(<i>Asplenium nidus</i>)	(<i>Asplenium nidus</i>)
bisect	- bisek (sains tanah)
bivalve	- dwitangkap/bivalva
bleached sand	- pasir jernih
blistering agent	- bahan pelepuh
bloater	- ikan salai
bog soil	- tanah buyau
botanical key	- petunjuk botani
botanical relationship	- perhubungan botani
bowstring hemp	- lidah buaya
(<i>Sansevieria</i>	(<i>Sansevieria</i>
<i>trifaciata</i>)	<i>trifaciata</i>)
bronzing of leaf	- pemerangan daun
buccal cavity	- rongga rahang
budded stump	- tunggul cantuman
bunds	- benteng; pematang
buried soil	- tanah tertimbus
bush (agric. eng.)	- busy (Kej. pert.)

C

cage brooding	- mengeram bersangkar
cage breaker	- pemecah hampas
calibration plots	- petak
	bandingan/kalibrasi
canary bird	- burung kenari
(<i>Serinus canarius</i>)	(<i>Serinus canarius</i>)
canary grass	- rumput kenari
(<i>Phalaris canariensis</i>)	(<i>Phalaris canariensis</i>)
candler	- pendian
candling	- mendian
cap (mushroom)	- payung (cendawan)
caseworm	- ulat layar/ulat apung
(<i>Nymphula depunctalis</i>)	(<i>Nymphula depunctalis</i>)
casual species	- spesies jarang
catfish species	- spesies ikan duri
cation exchange	- tindakbalas/reaksi
reaction	- pertukaran kation
cation fixation	- pengikatan kation
cemetery tree	- mempising
(<i>Polyalthia</i>	(<i>Polyalthia</i>
<i>canangioides</i>)	<i>canangioides</i>)

cerbera	- pongpong/pokok bentan	creeper	- tumbuhan jalar
(cerbera manghas)	- (Cerbera manghas)	creeping	- menjalar
chaff	- jerami padi; jerami cincang; tatal (Ketaman kayu)	creeping plant	- tumbuhan menjalar
chartaceous	- kekertasan	cross-cut saw	- gergaji kerat
chemical	- ciri kimia tanah	cross-peen hammer	- tukul bongkol-melintang
characteristics of soil-		cull	- takai
chengal pasir	- cengal pasir	culling	- menakai
(Hopea odorata)	(Hopea odorata)		
cheremai	- cermai/ceremai	D	
(Cicca acida)	- (Cicca acida)	damage by drought	- kerosakan oleh kemarau
circular weeding	- merumput keliling	damage by flood	- kerosakan oleh bah/ banjir
citronella grass	- serai wangi	damage by pest	- kerosakan oleh perosak
(Cymbopogon nardus)	- (Cymbopogon nardus)	dehiscent (fruit)	- bengang (buah)
claw	- kerambi	deleterious	- merosakkan
claw hammer	- tukul tuil	disbudding	- membuang tunas
climatic analogue	- analog iklim	disc harrow	- sikat piring
climatic control	- kawalan iklim; pengawalan iklim	disc plough	- bajak piring
climatic energy	- tenaga iklim	ditcher	- pamarit
climatic rhythm	- ritma iklim	double digging	- membajak ganda
climatic shift	- ganjakan iklim	double-ended spanners	- sepana kepala dua
climatic stress	- himpitan iklim	drainage	- salira
club fungi	- kulat tongkol/tokol	drainage basin	- lembang saluran
club moss	- paku ranih	drought resistance	- tahan kemarau
(Lycopodium spp.)	- (Lycopodium spp.)	drought tolerance	- tasamuh kemarau
coconut cake	- hampas kelapa	dual purpose birds	- ayam dua guna
coefficient	- pekali		
coexist	- hidup bersama	E	
coir (coconut)	- sabut kelapa	ear (padi)	- bulir
collar protectant	- pelindung kolar	ear of corn	- tongkol jagung
colloid	- koloid	eluvial horizon	- horizon eluvium
colloidal clay	- tanah liat/geluh berkoloid	eluvial soil	- tanah eluvium
colloidal gel	- gel berkoloid	experiment plot	- petak percubaan
colloidal sol	- sol berkoloid	experimental design	- rekabentuk percubaan
common bamboo-rat	- dekan (Rhizomys sumantransis)		
(Rhizomys sumantransis)		F	
compactible	- boleh dipadatkan	fasciated crown	- jambul pipih
complete fertilizer	- baja dagangan lengkap; baja kimia lengkap	fasciated fruit	- buah pipih
compound fertilizer	- baja sebatian	feed hopper	- palung-kotak makanan
compound fruit	- buah majmuk	feed record	- rekod beri makanan
concentrate (chemical)	- pati (bahan kimia)	file (instrument)	- kikir
concentrate (food)	- pati (makanan)	file card (instrument)	- pencuci kikir
consolidate	- mampat	flat file	- kikir pipih
consolidation	- kemampatan/konsolidasi	flat worm	- cacing pipih/trematod
contour drain	- parit kontur	frequency of sampling	- kekerapan bancian; frekuensi pencontohan
contour terracing	- teres kontur		
control plot	- petak bandingan		
cow dung	- tahi lembu		
cowpea	- kacang duduk		
(Vigna sinensis)	(Vigna sinensis)		

n		kenaf rope	- tali kenaf
		kenari-nut tree (<i>Canarium commune</i>)	- pokok kenari (<i>Canarium commune</i>)
garden rake	- pencakar		
garden shears	- gunting pagar		
garden snail (<i>Achatina fulica</i>)	- siput babi (<i>Achatina fulica</i>)	L	
germinal disc	- piring jana		
greater yam (<i>Dioscorea alata</i>)	- ubi nasi; ubi tiyang (<i>Dioscorea alata</i>)	land alienation	- pemberian milik tanah
green belt	- jalur hijau	land inspection	- pemeriksaan tanah
green bud stick	- ranting mata tunas hijau/muda	land tenure	- hak milik tanah
guard row	- baris pendinding	lateral bud	- mata tunas sisi
gully erosion	- hakisan gaung	latex vessels	- saluran susu
		lawn mower	- pemangkas halaman
		leaf mosaic	- mozek daun
		leaf sheath	- upih daun
		lemon migrant (<i>Catopsilia crocale</i>)/ (<i>Catopsilia pomona</i>)	- kupu-kupu kasia (<i>Catopsilia crocale</i>)/ (<i>Catopsilia pomona</i>)
H		lethal dosage	- had maut
hand drill	- gerudi tangan	lethal dose	- takaran maut
hand fork	- serampang tangan	lethal factor	- faktor maut
hand lens	- kanta tangan	litter size	- saiz seperindukan
hand trowel	- sudip tangan	litter weight	- berat seperindukan
heredity/hereditary	- keturunan/kewarisan	low fertility	- kesuburan rendah/kurang subur
hill simpuh (<i>Dillenia meliosmifolia</i>)	- simpuh bukit (<i>Dillenia meliosmifolia</i>)		
humic gley soil	- tanah glei berhumus	M	
		mallet	- penukul kayu/gandin
I		malting of barley	- penapaian barli
imbedded	- terbenam; tertanam	manurial demonstration	- tunjukkara pembajaan
imbition ratio	- nisbah pedapan	manurial experiment	- percubaan pembajaan
impede	- halang	manurial observation	- pemerhatian pembajaan
impeded drainage	- saluran terhalang	mature plant cell	- sel tumbuhan matang
inland soil	- tanah ulu	mellow	- gebu
inner soil	- tanah dalam/tanah bawah	minor crops	- tanaman minor
introduced variety	- jenis dagang	miscellaneous crops	- tanaman rampaian
irritability	- kepekaan	mixed bud	- mata tunas campur
		mixed planting	- tanaman campuran
		monoclimax	- kemuncak satu/tunggal
J		monohybrid ratio	- nisbah monohibrid
Jack plane	- ketam kasar/ketam jek	mull humus	- humus lumat
Joint (carpentry)	- tanggam (pertukangan kayu)		
Jute (<i>Corchorus spp.</i>)	- jut (<i>Corchorus spp.</i>)	N	
		native plants	- tumbuhan asli
K		norway rat (<i>Rattus norvegicus</i>)	- tikus bandar (<i>Rattus norvegicus</i>)
keel (nautical)	- lunas	nutritional disease	- penyakit pemakanan

O		stake	- pancang; junjung; junjungan
one-crop farming	- perladangan tanaman tunggal	starter mash	- makanan awal
outline of cropping system	- ringkasan sistem penanaman	stock	- baka; pokok penanti
		stock replacement	- penggantian baka
		strip cropping	- penanaman jalur
		systematic fungicide	- racun kulat serap
P		T	
parasitic plant	- pokok parasit	tapping panel	- tapak torehan
permanent crop	- tanaman kekal	terminal bud	- mata tunas hujung
pigment	- pewarna	textural triangle	- segitiga tekstur
plane	- ketam	tiller	- anak; gagang; kemudi; pembajak
planing	- mengetam	top soil	- tanah atas/bunga tanah
plowshare	- mata bajak/mata tenggala	transplanting	- pegubahan; mengubah; pencendungan; mencedung (padi)
potentialities of entire plant	- keupayaan pokok		
potting compost	- kompos pasu	twig	- ranting
potting soil	- tanah pasu	twining	- melilit
prawn dust	- habuk udang	U	
prawn meal	- serbuk udang	udder	- tetek; pundi-pundi susu
pre-emergence blight	- hawar pracambah	upgrading	- penataran
pre-emergence herbicide-	racun herba pracambah		
primary leaf	- daun primer	V	
R		varietal experiment	- percubaan jeni
repotting	- memasu semula	varietal observation	- pemerhatian jenis
ridge	- batas	W	
ridging	- membatas	wet nursery	- semaian basah
root cutting	- keratan akar	whet	- mengasah
root grafting	- cantuman akar	wind break	- adang angin
rotary plough	- bajak putar	wind damage	- cedera ribut
rotary slasher	- penebas putar	wood vice	- ragam kayu
S		Y	
saddle grafting	- cantuman celapak	yoke	- dening
scientific breeding	- pembiakbaik ilmiah	yolk	- yok/kuning telur
seed farm	- ladang bijibenih	Z	
seed garden	- kebun bijibenih	zinnia	- zinnia
short term padi	- padi ringan	(Zinnia elegans)	(Zinnia elegans)
short term variety	- jenis ringan		
side grafting	- cantuman sisi		
single cut file	- kikir gigi tunggal		
skim milk	- susu siring		
softwood	- kayu lampung		
soil particle	- kumin tanah		



Kalendar Kongres Pertanian

Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antara-bangsa mengenai pertanian dan perkara-perkara berkaitan dengannya yang akan diadakan dari bulan Jun hingga bulan Ogos 1986. Untuk melengkapkan lagi senarai ini, anda adalah dipelawa untuk melaporkan apa juga maklumat mengenai lain-lain seminar, konferens dan bengkel pertanian yang tidak termasuk di dalam senarai ini.

Jun 16-21

Judul: Kawalan Penyakit & Musuh Padi
Tempat: MARDI, Seberang Perai
Anjuran: MARDI

Jun 17-18

Judul: Simposium Bijibenh Serantau
1986
Tempat: Jabatan Agronomi dan
Kulturakebunan, UPM
Anjuran: UPM

Jun 22-26

Judul: Pengairan Tanaman Tembakau
secara Sprinkler
Tempat: MARDI, Rantau Abang, Trengganu
Anjuran: MARDI

Jun 30-Julai 12

Judul: Teknologi Tanaman Buah-Buahan
Tempat: MARDI, Serdang, Selangor
Anjuran: MARDI

Julai 1-12

Judul: Teknologi Tanaman Sayur-Sayuran
Tempat: MARDI, Jalan Kebun, Kelang
Anjuran: MARDI

Julai 5-10

Judul: Teknologi Tanaman Nenas
Tempat: MARDI, IPRS, Pontian, Johor
Anjuran: MARDI

Julai 26-31

Judul: Penggunaan Racun Tanaman Tembakau
Tempat: MARDI, Telong, Kelantan
Anjuran: MARDI

Ogos 6

Judul: Konvensyen Peladang Kebangsaan
Tempat: Pusat Perdagangan Dunia Putra,
Kuala Lumpur
Anjuran: Lembaga Pertubuhan Peladang

Ogos 25-30

Judul: Teknologi Tanaman Orkid
Tempat: MARDI, Serdang, Selangor
Anjuran: MARDI

**Bibliografi-Bibliografi Terbitan Perpustakaan
Universiti Pertanian Malaysia**

Perpustakaan UPM telah menerbitkan beberapa buah bibliografi yang merupakan sumber rujukan yang amat berguna. Bibliografi-bibliografi tersebut adalah seperti berikut:-

<u>Judul</u>	<u>Harga</u>
1. Abstrak Alam Sekitar Malaysia. (Malaysian Environment Abstracts). 1981	\$ 5.00
2. Abstrak Buah-buahan Malaysia. (Malaysian Fruit Abstracts) Nov. 1980	\$ 10.00
3. Abstrak Penukaran Biojisim Kepada Bahan Tenaga. (Abstracts on Bioconversion for Fuel production). Okt. 1981	\$ 10.00
4. Asas Ekologi untuk Kegunaan Rasional Sumber Hutan di Asia Tenggara. (Ecological Basis for Rational Utilization of Forest Resources in Southeast Asia: A bibliography).1982	\$ 5.00
5. Bibliografi Alam Sekitar ASEAN. (ASEAN Environment Bibliography).1981	\$ 5.00
6. Bibliografi Bioteknologi (Bibliography on Biotechnology) Mac 1984	\$ 5.00
7. Bibliografi Kejuruteraan ke arah Pertanian Progresif (Engineering towards progressive agriculture: a bibliography). Sept. 1983	\$ 5.00
8. Bibliografi Pendidikan Jasmani dan Sukan dalam Pembangunan Negara. (A Bibliography on Physical Education and Sport in Nation Building). Ogos 1982	\$ 5.00
9. Bibliografi Penyakit Merah (Bibliography on Penyakit Merah). Okt. 1983	\$ 5.00
10. Bibliografi Penyeliaan dalam Pendidikan: Penyelia sebagai pemimpin kumpulan (Bibliography on supervision in Education: the supervisor as team leader). Ogos, 1983	\$ 10.00
11. Bibliografi Perhutanan Malaysia. (Bibliography of Malaysian Forestry). Nov. 1980	\$ 5.00
12. Bibliografi Perniagaantani. (Bibliography of Agribusiness). Ogos 1976	Percuma
13. Bibliografi Pertanian Malaysia 1979-1981	\$ 20.00
14. Bibliografi Tanaman Sayuran dan Hiasan di Tropika. (A Bibliography on Vegetables and Ornamentals in the Tropics) Okt. 1982	\$ 10.00
15. Bibliografi Teknologi Bijih Benih di Tropika (A Bibliography on Seed Technology for the Tropics). Okt. 1982	\$ 10.00
16. Bibliografi Teknologi Menangkap Ikan di Kawasan Asia, 1972-1982 (Bibliography on Capture Fisheries in the Asian Region, 1972-1982)	\$ 5.00
17. Bibliography of Malaysian Soils. 1981	\$ 10.00
18. Hasil-hasil Hutan Malaysia dan Kegunaannya: sebuah bibliografi. (Malaysian Forest Products Their Utilization: a bibliography). Okt. 1979	Percuma
19. Hidroponik: sebuah bibliografi (Hydroponics: a bibliography) Okt 1981	\$ 5.00
20. Kerbau: sebuah bibliografi. (Buffalo: a bibliography). 1979	\$ 1.00
21. Kesan Kegiatan Perhutanan dan Penghutanan Semula ke atas Hidrologi: sebuah bibliografi. (Hydrological Impacts of Forestry Practices and Reafforestation: a bibliography). 1981	Percuma
22. Makanan dan Pemakanan di Asia: sebuah bibliografi. (Food and Nutrition in Asia: a bibliography). 1981	\$ 5.00
23. Malaysian Animal Science Abstracts, 1975-1979, 1980	Percuma
24. Mycorrhiza: sebuah bibliografi. (Mycorrhiza: a bibliography). Apr. 1982	\$ 5.00
25. Orkid: Senarai Bahan-bahan Dalam Perpustakaan. (Orchid: List of Materials in the Library). Ogos 1980	Percuma
26. Pendidikan Veterinar: sebuah bibliografi (Veterinary Education: a bibliography).Julai 1979	Percuma
27. Pengurusan Sumber Alam: sebuah bibliografi.(National Resources Management: a bibliography) Jun 1979	Percuma
28. Penyakit Kuku dan Mulut: sebuah bibliografi. (Foot-and-Mouth Disease: a bibliography) Feb 1979	Percuma

Sesiapa yang ingin memperolehi bibliografi-bibliografi tersebut, silalah berhubung terus dengan alamat di bawah:-

Penolong Pustakawan Kanan
Bahagian Penerangan dan Perkhidmatan Lanjutan,
Perpustakaan,
Universiti Pertanian Malaysia,
43400 UPM, Serdang,
Selangor.

BULETIN
Maklumat Pertanian Malaysia
Perpustakaan
Universiti Pertanian Malaysia
43400 UPM, Serdang