

# Maklumat Pertanian Malaysia

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## KANDUNGAN

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## Fokus

### INSTITUT PENGURUSAN PERHUTANAN ASEAN - SATU Pengenalan

#### LATARBELAKANG

Institut Pengurusan Perhutanan ASEAN (AIFM) telah dimajukan untuk perbincangan di dalam "ASEAN Seminar on Tropical Rainforest Management" di Kuantan, Pahang pada November 1977. Cadangan projek tersebut telah diluluskan oleh Menteri-Menteri Ekonomi ASEAN dalam tahun 1978 dan disokong oleh

Menteri-Menteri Pertanian dan Perhutanan ASEAN dalam tahun 1981. Tujuan projek tersebut adalah untuk membina dan membangunkan AIFM sebagai pusat yang unggul dalam pengurusan hutan hujan tropika dan untuk memberi kepakaran dalam pengurusan dan operasi inventori hutan, perancangan dan pembagunan negara-negara anggota ASEAN bagi keperluan meningkatkan kemajuan productiviti tanah-tanah hutan tropika.

#### TUJUAN-TUJUAN

Tujuan-tujuan utama AIFM adalah seperti berikut:-

- untuk meningkatkan lagi kepakaran, keupayaan dan kemahiran di dalam pengurusan hutan hujan tropika;
- untuk mengalakkan keberkesanan pemindahan dan penerapan teknologi moden, seperti pengesanan remot dan penggunaan komputer, dan juga pengurusan dan sains maklumat di dalam bidang perhutanan;
- untuk memudahkan lagi pertukaran pengalaman yang relevan dan maklumat yang diperlukan bagi pembagunan dan pengurusan hutan yang paling unggul;
- untuk menyokong kajian pengurusan, operasi dan polisi hutan; di mana ia akan meningkatkan lagi kerjasama ASEAN di dalam bidang perhutanan; dan
- untuk mengalakkan strategi, amalan dan polisi perhutanan yang rasional dan seragam di rantau ASEAN.

#### ORGANISASI

BMPM 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, 43400 UPM Serdang, Selangor Darul Ehsan.

Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd Ariff Ariffin  
Pengarang-pengarang: Badillah Saad; Hawa Abdul Majid; Asliah Abu  
Penyunting: Jama'yah Zakaria

AIFM adalah institusi Kumpulan Penyelaras ASEAN-COFAF mengenai perhutanan iaitu badan subsidi Jawatankuasa Makanan, Pertanian dan Perhutanan ASEAN. Ia ditadbirkan oleh Jawatankuasa Pemandu Projek yang dipengerusikan oleh wakil Malaysia, negara perumah. AIFM diketui oleh seorang Pengarah yang dilantik oleh Malaysia dengan persetujuan negara-negara anggota ASEAN yang lain.

## PENUBUHAN

Satu memorandum persetujuan (MOU) bagi penubuhan AIFM telah ditanda tangani oleh Malaysia, bagi pihak ASEAN, dan Kanada pada 4 Februari, 1985. Kanada akan menyumbang pakar-pakar, biasiswa-biasiswa untuk kursus lanjutan dan latihan jangka pendek di Kanada; latihan amali di negara-negara ASEAN; dan peralatan. Malaysia akan menyumbang keperluan kemudahan seperti kakitangan dan sokongan operasi manakala negara-negara ASEAN yang lain dijangka akan menyumbang dalam bentuk kakitangan dan kos-kos tempatan.

## SKOP

Di bawah MOU, Institut ini akan memenuhi aspek-aspek utama pengurusan hutan seperti berikut:

- a. taksiran dan inventori kawasan hutan;
- b. perancangan hutan dan sistem pengawalan;
- c. penuaian hutan; dan
- d. sistem-sistem hutan semula dan silvikultur;

Seterusnya, skop kerja Institut ini meliputi yang berikut:-

- (a) membina pusat fokus untuk negara-negara anggota ASEAN di dalam semua perkara yang berkaitan dengan pengurusan hutan termasuk inventori, perancangan, penuaian dan hutan semula;
- (b) memberi latihan kepada kakitangan negara-negara anggota ASEAN di dalam bidang perhutanan tersebut;
- (c) memperkukuhkan lagi agensi-agensi perhutanan nasional secara meningkatkan lagi kemahiran dan kepakaran kakitangan ASEAN di dalam bidang teknikal dan memajukan kemahiran pengurusan;
- (d) menjalan, menyelaras dan mendokumen, menyebar dan melaksanakan metodologi dan teknik perancangan hutan meliputi rantau ASEAN;
- (e) mengerak dan menyelaras kepakaran di rantau ini

serta memberi perkhidmatan perundingan dan nasihat kepada negara-negara anggota ASEAN mengenai pengurusan hutan hujan tropika;

- (f) melaksanakan penilaian kesesuaian teknikal dan ekonomi pengurusan hutan dan sistem operasi, teknik-teknik dan prosedur;
- (g) membina, mengesah dan menggunakan model-model pengurusan dan perancangan hutan untuk kawasan-kawasan terpilih di peringkat nasional dan serantau;
- (h) mengisi kekurangan maklumat dengan cara menjadi bank data serantau dan pusat pertukaran maklumat mengenai perancangan dan pengurusan, penuaian dan sumber hutan; dan
- (i) membaiki penyelaras dan keseragaman aktiviti dan polisi-polisi dikalangan negara-negara anggota ASEAN.

## AKTIVITI

Aktiviti-aktiviti Institut ini boleh dibahagikan secara umum kepada kategori-kategori berikut:

- (a) LATIHAN - untuk meningkatkan kepakaran dan kemahiran kakitangan ASEAN di dalam perancangan dan pengurusan, inventori hutan di Kanada dan ASEAN.
- (b) PEMBANGUNAN TEKNOLOGI - memperkenalkan metodologi dan teknologi yang sesuai di dalam perancangan dan pengurusan, penuaian, hutan semula, dan inventori hutan.
- (c) PERUNDINGAN DAN NASIHAT - mengumpul, menganalisa, menilai, menyatukan dan membaiki koleksi data yang ada/ sistem dapat kembali maklumat dan melaksanakan satu sistem atau mekanisme untuk mengerakkan, dengan cara yang teratur, dan terbaik di dalam pengurusan, hutan semula dan inventori hutan supaya dapat memberi perkhidmatan nasihat dan perundingan yang diperlukan kepada negara-negara anggota ASEAN.

Aktiviti-aktiviti Institut ini akan menghimpun bersama pakar-pakar dalam empat bidang umum dan berkaitan. Bidang-bidang ini adalah inventori dan pengukuran hutan, pengesanan sumber-sumber hutan, penggunaan komputer dan perancangan dan membuat model-model pengurusan. Sebagai tambahan, pakar-pakar jangka pendek akan disediakan untuk membantu di dalam bidang-bidang seperti penuaian, silvikultur, pengurusan sumber dan perhutanan bandar. Aktiviti penting yang akan dijalankan di seluruh ASEAN adalah seminar, bengkel dan latihan.

Aktiviti-aktiviti akan dijalankan menggunakan "Work Breakdown Structure" yang mempunyai lima komponen besar:

- (a) Pentadbiran Institut dan Sokongan - peruntukan kakitangan, kemudahan dan perkhidmatan sokongan oleh negara perumah.
- (b) Pengawas Hutan Terlatih ASEAN - peruntukan pengajian ijazah lanjutan dan latihan jangka pendek di Kanada dan latihan jangka pendek di ASEAN.
- (c) Sistem Perancangan dan Inventori Hutan yang Beroperasi - pembinaan sistem perancangan dan inventori hutan, perisian, dan perolehan sistem perkakasan untuk mengukur secara kuantitatif dan mengawasi sumber-sumber hutan.
- (d) Melaksanakan Sistem-Sistem Inventori dan Pen-

gurusan - peruntukan biasiswa pengajian dan latihan tanpa-struktur di dalam penggunaan komputer dan pengurusan pangkalan data; sistem-sistem inventori yang diusahakan oleh Institut; dan di dalam penggunaan sistem-sistem perancangan Institut.

- (e) Pentadbiran Projek - peruntukan untuk projek pengurusan di Kanada dan ASEAN.

Dengan terbinanya Institut ini dan pelaksanaan program aktiviti-aktivitinya adalah dijangkakan negara-negara anggota ASEAN akan mempunyai cara-cara yang lebih baik bagi memperolehi maklumat yang berkenaan, teknologi dan kepakaran untuk memastikan pengurusan yang lebih baik terhadap hutan tropika yang berharga bagi ketetapan hasil yang mempunyai faedah sosio-ekonomi yang maksima, bukan saja bagi rantau ini tetapi juga bagi seluruh dunia.

\* Terjemahan dari risalah AIFM

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## PERKHIDMATAN HALAMAN KANDUNGAN (PHK)

Jurnal ialah sumber utama untuk mengikuti perkembangan terbaru dalam bidang anda. Sayangnya kos langganan jurnal saintifik/teknikal sangat tinggi dan kian bertambah setiap tahun. Perpustakaan Universiti Pertanian Malaysia menyediakan cara paling mudah untuk mengikuti perkembangan terbaru tersebut iaitu melalui **Perkhidmatan Halaman Kandungan**. Dengan bayaran \$15.00 setahun anda dapat mengikuti perkembangan yang diterbitkan dalam 10 jurnal pilihan. Untuk Keterangan lanjut, sila hubungi:

Bahagian Penerangan dan  
Perkhidmatan Lanjutan  
Perpustakaan  
Universiti Pertanian Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan

## BIBLIOGRAFI PERTANIAN MALAYSIA

Bibliografi ini mengandungi bahan-bahan terbitan mengenai pertanian Malaysia yang telah diindeks dari Disember 1986 - Februari 1987 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 AGRIASIA.

Format AGRIS telah digunakan untuk mengindeks dan penyusunan bibliografi ini dibuat mengikut Pengkelasan 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)

#### **E            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 employ  
ment)

**E13**    -    Pelaburan, kewangan dan kredit (Invest-  
ment, 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 (Organi-  
zation, 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 biji benih (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)	K10	- Pengeluaran perhutanan (Forestry production)
F70	- Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)	K11	- Kejuruteraan hutan (Forest engineering)
H	<b>PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)</b>	K50	- Pemprosesan hasil hutan (Processing of forest products)
H01	- Perlindungan tumbuhan - Aspek am (Protection of plants - general aspects)	K70	- Kerosakan dan perlindungan hutan (Forest injuries and protection)
H10	- Perosak tumbuhan (Pests of plants)	L	<b>SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN</b>
H20	- Penyakit tumbuhan (Plant diseases)	L01	- Peternakan (Animal husbandry)
H50	- Pelbagai penyakit tumbuhan (Miscellaneous plant disorders)	L02	- Makanan ternakan (Animal feeding)
H60	- Rumpai dan pengawalan rumpai (Weeds and weed control)	L10	- Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
J	<b>TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/TUAI POSTHARVEST TECHNOLOGY)</b>	L20	- Ekologi haiwan (Animal ecology)
J10	- Pengawasan, pengangkutan, storan dan perlindungan, hasil pertanian (Handling, transport, storage and protection of agricultural products)	L40	- Struktur haiwan (Animal structure)
J11	- Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)	L50	- Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
J12	- Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)	L51	- Fisiologi haiwan - pemakanan (animal physiology - Nutrition)
J13	- Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)	L52	- Fisiologi haiwan - pertumbuhan dan perkembangan (Animal physiology - Growth and development)
J14	- Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)	L53	- Fisiologi haiwan - pengeluaran (Animal physiology - reproduction)
J15	- Pengawasan, pengangkutan, aturan dan perlindungan hasil pertanian yang bukan berbentuk makanan atau bahan makanan (Handling, transport, storage and protection of non-food or non-feed agricultural products)	L60	- Taksonomi dan geografi haiwan (Animal taxonomy and geography))
K	<b>PERHUTANAN (FORESTRY)</b>	L70	- Sains Veterinar dan Kesihatan (Veterinary science and hygiene)
K01	- Perhutanan -Aspek am (Forestry - general aspects)	L72	- Perosak haiwan (Pests of animals)
		L73	- Penyakit-penyakit haiwan (Animal diseases)
		L74	- Pelbagai penyakit haiwan (Miscellaneous animal disorders)
		M	<b>PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)</b>
		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)

<b>N</b>	<b>JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINER AND ENGINEERING)</b>	<b>Q02</b>	- Pemprosesan dan pengawetan makanan (Food processing and preservation)
<b>N01</b>	- Kejuruteraan pertanian (Agricultural engineering)	<b>Q03</b>	- Pencemaran dan toksikologi makanan (Food contamination and toxicology)
<b>N02</b>	- Pertapakan ladang (Farm layout)	<b>Q04</b>	- Kandungan makanan (Food composition)
<b>N20</b>	- Jentera dan peralatan pertanian (Agricultural machinery and equipment)	<b>Q05</b>	- Makanan penampung (Food additives)
<b>P</b>	<b>SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)</b>	<b>Q51</b>	- Teknologi makanan ternakan (Feed technology)
<b>P01</b>	- Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)	<b>Q52</b>	- Pemprosesan dan pengawetan makanan ternakan (Feed processing and preservation)
<b>P05</b>	- Sumber tenaga dan pengurusan (Energy resources and management)	<b>Q53</b>	- Pencemaran dan toksikologi makanan ternakan (Feed contamination and taxicology)
<b>P06</b>	- Pembaharuan sumber tenaga (Renewable energy resources)	<b>Q54</b>	- Kandungan makanan ternakan (Feed composition)
<b>P07</b>	- Sumber tenaga yang bukan berbentuk pembaharuan (Non-renewable energy resources)	<b>Q55</b>	- Makanan penampung ternakan (Feed additives)
<b>P10</b>	- Sumber air dan pengurusan (Water resources and management)	<b>Q60</b>	- Pemprosesan hasil pertanian yang bukan makanan manusia dan bukan makanan ternakan (Processing of non-food or non-feed agricultural products)
<b>P11</b>	- Pengairan (Drainage)	<b>Q70</b>	- Pemprosesan sisa-sisa pertanian (Processing of agricultural wastes)
<b>P30</b>	- Sains tanah dan pengurusan (Soil science and management)	<b>Q80</b>	- Pembungkusan (Packaging)
<b>P31</b>	- Kajian dan pemetaan tanah (Soil surveys and mapping)	<b>S</b>	<b>PEMAKANAN MANUSIA (HUMAN NUTRITION)</b>
<b>P32</b>	- Kimia dan genesis tanah (Soil chemistry and genesis)	<b>S01</b>	- Pemakanan manusia - aspek am (Human nutrition- - general aspects)
<b>P33</b>	- Kimia dan fizik tanah (Soil chemistry and physics)	<b>S20</b>	- Fisiologi pemakanan manusia (Physiology of human nutrition)
<b>P34</b>	- Biologi Tanah (soil biology)	<b>S30</b>	- Sajian makanan dan penyakit-penyakitnya (Diet and diet-related diseases)
<b>P35</b>	- Kesuburan tanah (Soil fertility)	<b>S40</b>	- Program-program pemakanan (Nutrition programmes)
<b>P36</b>	- Hakisan, pemuliharaan dan penebusgunaan tanah (Soil erosion, conservation and reclamation)	<b>T</b>	<b>PENCEMARAN (POLLUTION)</b>
<b>P40</b>	- Meterologi dan kaji iklim (Meteorology and climatology)	<b>T01</b>	- Pencemaran (Pollution)
<b>Q</b>	<b>PEMROSESAN HASIL PERTANIAN (PROCESSING OF AGRICULTURAL PRODUCTS)</b>	<b>U</b>	<b>METODOLOGI (METHODOLOGY)</b>
<b>Q01</b>	- Sains & teknologi makanan (Food science and technology)	<b>U10</b>	- Kaedah matematik dan statistik
		<b>U30</b>	- Kaedah penyelidikan (Research methods)

**A: PERTANIAN AM**

**A01: Pertanian - aspek am**

XB8705202

Evelyne Hong.

Natives of Sarawak: survival in Borneo's vanishing forest. (En). ISBN 967-9966-03-8. Pulau Pinang (Malaysia). Institut Masyarakat. 1987. 259 p. Bibliography p. 240-248. SARAWAK; LAND DEVELOPMENT/ AGRICULTURE; FOREST ECOLOGY; FORESTRY

**B: GEOGRAFI DAN SEJARAH**

**B50: Sejarah**

XB8605120

Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia). Origin, distribution and botany of pepper (*Piper nigrum* L.). (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia. 1986. p. 17-24. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CLIMBERS; PLANT ANATOMY; SELF-POLLINATION/ HISTORY

**C: PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT**

**C10: Pendidikan**

XB8705142

Kamis Awang; Yusuf Hadi; Nik Muhamad Majid (Universiti Pertanian Malaysia, Serdang, Selangor. Fakulti Perhutanan). Tertiary forestry education in Malaysia: current thinking and future direction. (En). Malaysian Forester (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 174-184. \*; UNIVERSITIES; FORESTRY; TRAINING COURSES; MALAYSIA/ EDUCATIONAL POLICIES; EXTENSION ACTIVITIES; RESEARCH; FORESTERS; STUDENTS

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XB8705144

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XB8782062

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[Vocational training for Felda [Federal Land Development Authority] settlers' youths [in Malaysia]. Latihan vokasional anak peneroka Felda [Federal Land Development Authority, Malaysia]. (Malay). Peneroka (Malaysia). ISSN 0126-6349. (1986). v. 18(9) p. 3-7. \*; RURAL SETTLEMENT; YOUTH; VOCATIONAL; TRAINING; MALAYSIA

XB8782065

Zulkifly Haji Mustapha (Universiti Kebangsaan Malaysia, Bangi, Selangor. Fakulti Sains Pembangunan). [Agricultural education and extension services: a review]. Pendidikan pertanian dan perkhidmatan pembangunan: satu ulasan. (Malay). Forum Pembangunan (Malaysia). ISSN 0126-5156. (Sep 1984). v. 12(2) p. 26-36. \*; EXTENSION ACTIVITIES; EDUCATIONAL POLICIES; POVERTY; MALAYSIA/ RURAL COMMUNITIES

XB8705204

S.M. Mohamed Idris. Malaysian consumers and development. (En). Pulau Pinang (Malaysia). CAP. 1986. 97 p. MALAYSIA; CONSUMER PROTECTION; CONSUMER BEHAVIOR; ECONOMIC DEVELOPMENT

**C20: Pengembangan**

XB8605141

Ngidang, D. (Universiti Pertanian Malaysia, Kuching, Sarawak. Jabatan Sains Kemasyarakatan dan Kemanusiaan). A communication support program for pepper [*Piper nigrum*] growers in Sarawak. (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 221-230. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; TECHNOLOGY TRANSFER; INFORMATION FLOW; SARAWAK/ CASH CROPS; EXTENSION ACTIVITIES; FARMERS

XB8782066

Leong, C.W.. [Advisory service - cocoa [in Malaysia]]. Khidmat nasihat - koko. (Malay). Kemajuan Penyelidikan (Malaysia). (Sep 1986). v. 7(1) p. 3-4. THEOBROMA CACAO; EXTENSION ACTIVITIES; PUBLIC ENTERPRISES; MALAYSIA

XB8782067

Leong, C.W. [Advisory service - crop protection [in Malaysia]]. *Khidmat nasihat - kawalan tanaman*. (Malay). *Kemajuan Penyelidikan (Malaysia)*. (Sep 1986). v. 7(1) p. 5-6. ELAEIS GUINEENSIS; THEOBROMA CACAO; HEVEA BRASILIENSIS; MALAYSIA/ PEST INSECTS; PLANT DISEASE CONTROL

XB8705206

Prime Minister's Dept., Kuala Lumpur (Malaysia). Socio-economic Research Unit. *Decentralisation for rural development: a case study of the farmers'organisation in Tanjung Karang, Selangor*. (En). Kuala Lumpur. SERU. 1986. 73 p.. Bibliography p. 69-70. Appendices. \*; RURAL DEVELOPMENT; DECENTRALIZATION; FARMERS ASSOCIATION

XB8705339

Mahathevan, R. (Jabatan Perkhidmatan Perubatan dan Kesihatan Malaysia, Kuala Lumpur). *The need to establish Poison Advisory Service including poison control centre in Malaysia with special reference to pesticide poisoning*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 255. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; TOXICITY; POISONING; MALAYSIA/ EXTENSION ACTIVITIES

XB8705345

Jonglaekha, N. (Chiang Mai Univ., Thailand. Department of Plant Pathology); Thanormthin, V. (Ministry of Agriculture and Cooperatives, Thailand. Department of Agriculture). *Plant protection strategies for hill tribe agriculture in Northern Thailand*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 267-268. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ADVISORY OFFICERS; HIGHLAND; ETHNICITY; THAILAND/ PLANT PROTECTION

**D: PENTADBIRAN  
DAN PERUNDANGAN**

**D50: Perundangan**

XB8782072

Maheswaran, A.. *A decade of environmental management in Malaysia. Satu dekad pengurusan alam sekitar di Malaysia*. (En, Malay). *Sekitar (Malaysia)*. (1986). (Special issue) p. 8-20. \*; ENVIRONMENTAL POLICIES; LAWS; ADMINISTRATION; MALAYSIA

XB8782073

Sekarajasekaran, A.. *Formulation of the first comprehensive environmental legislation - the Environmental Quality Act, 1974*. (En). *Sekitar (Malaysia)*. (1986). (Special issue) p. 40-42. \*; ENVIRONMENTAL POLICIES; LAWS; MALAYSIA

**E: EKONOMI, PEMBANGUNAN DAN  
SOSIOLOGI DESA**

**E10: Ekonomi dan polisi pertanian**

XB8705174

Habibah Suleiman (Lembaga Penyelidikan dan Kema-juan Getah Malaysia, Kuala Lumpur). *An alternative approach to estimating supply response of a perennial crop [Hevea brasiliensis]*. (En). *Journal of Natural Rubber Research*. ISSN 0127-7065. (Jun 1986). v. 1(2) p. 71-88. HEVEA BRASILIENSIS; RUBBER; SUPPLY FUNCTIONS; MODELS;/ PRICES; INVESTMENT; PRODUCTION FUNCTIONS

**E11: Ekonomi dan polisi tanah**

XB8782097

Azly Yusof. [Producing dollars and cents from idle land [in Malaysia]]. *Menghasilkan ringgit dan sen daripada tanah terbiar*. (Malay). *Sasaran (Malaysia)*. (1986). (no. 7) p. 26-27. \*; LAND PRODUCTIVITY; FINANCE; LAWS; MALAYSIA/ MOTIVATION

XB8705202

Evelyn Hong . *Natives of Sarawak : survival in Borneo's vanishing forest*. (En). ISBN 967-9966-03-8. Pulau Pinang (Malaysia). Institut Masyarakat. 1987. 259 p.. Bibliography p. 240-248. SARAWAK; LAND DEVELOPMENT/ AGRICULTURE; FOREST ECOLOGY; FORESTRY

**E13: Pelaburan, kewangan dan kredit**

XB8705193

Phua, J. (Chase Manhattan Bank, Kuala Lumpur (Malaysia)). *Financing export sales*. (En). *Food Technology in Malaysia (Malaysia)*. ISSN 0127-4503. (1986). v. 8 p. 64-65. \*; CREDIT; EXPORTS; BANKING; MALAYSIA

XB8782063

Ibrahim Ahmad. [Restudy of minimum income payment system of the oil palm settlers [in Malaysia]]. *Kajian semula sistem bayaran pendapatan minima peneroka rancangan sawit*. (Malay). *Peneroka (Malaysia)*. ISSN 0126-6349. (1986). v. 18(9) p. 9-11. \*; INCOME DISTRIBUTION; REMUNERATION; RURAL SETTLEMENT; MALAYSIA/ PALM OILS



**E14: Ekonomi dan  
polisi pembangunan**

XB8705116

Ahmad Almahdali, Dato' Syed; Ho, N.K.; Siti Zubaidah Mohd Rashid; Geh, Y.L. (Muda Agricultural Development Authority, Alor Setar, Kedah (Malaysia)). Needs and technological transfer in rice cultivation - MADA (Muda Agricultural Development Authority)'s views and experiences. (En). MADA Monograph (Malaysia). no. 43. Alor Setar, Kedah (Malaysia). MADA. Jul 1986. 19 p.. Appendices. Received Mar. 1987. \*; IRRIGATED RICE; TECHNOLOGY TRANSFER; CROPPING; PATTERNS; MALAYSIA/ IRRIGATION; AGRONOMY; PLANT PROTECTION; MECHANIZATION; FARMING SYSTEMS

XB8705206

Prime Minister's Dept., Kuala Lumpur (Malaysia). Socio-economic Research Unit. Decentralisation for rural development: a case study of the farmers'organisation in Tanjung Karang, Selangor. (En). Kuala Lumpur SERU.1986. 73 p.. Bibliography p. 69-70. Appendices. \*; RURAL DEVELOPMENT; DECENTRALIZATION; FARMERS ASSOCIATION

**E16: Ekonomi pengeluaran**

XB8782098

Hatta Robiki. [Coconut farming: problems and prospects [in Malaysia]]. Pertanian kelapa: masalah dan harapan. (Malay). Sasaran (Malaysia). (1986). (no. 7) p. 29-31. COCOS NUCIFERA; PRICES; DEVELOPMENT AID; MALAYSIA/ FARM AREA; FARMERS

**E20: Penyusunan, pentadbiran dan pengurusan perusahaan pertanian atau ladang**

XB8705192

McNulty, B. (American International Group, USA). Insuring your product. (En). Food Technology in Malaysia (Malaysia). ISSN 0127-4503. (1986). v. 8 p. 60-63. \*; TRANSPORT; PACKAGING; INSURANCE; SHIPS

XB8782063

Ibrahim Ahmad. [Restudy of minimum income payment system of the oil palm settlers [in Malaysia]]. Kajian semula sistem bayaran pendapatan minima peneroka rancangan sawit. (Malay). Peneroka (Malaysia). ISSN 0126-6349. (1986). v. 18(9) p. 9-11. \*; INCOME DISTRIBUTION; REMUNERATION; RURAL SETTLEMENT; MALAYSIA/ PALM OILS

XB8782082

Samarahan Farmers Organization [Sarawak] layer duck

project. (En, Malay). Farmers' Bulletin (Malaysia). (Feb 1987). (no. 263) p. 4. DUCKS; EGGS; FARMERS; SARAWAK/ COMMERCIAL FARMING

XB8782088

Mohd Zain Mohamed; Han, C.K.. Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Pengajian Pengurusan Computerisation in Malaysian agribusiness. (En). Staff Paper - Department of Management Studies (Malaysia). no. 10. Serdang, Selangor (Malaysia). Universiti Pertanian Malaysia. Dec 1986. 28 leaves. 43 tables; 8 ref. Appendix. \*Library Universiti Pertanian Malaysia. \*; COMPUTERS; AGROINDUSTRIAL SECTOR; MALAYSIA/ SURVEYS

**E21: Industri pertanian**

XB8705191

Perkins, P. (Food Machinery Corp., USA). Manufacturing engineering. (En). Food Technology in Malaysia (Malaysia). ISSN 0127-4503. (1986). v. 8 p. 54-59. \*; FOOD TECHNOLOGY; FOOD INDUSTRIES; TECHNOLOGY TRANSFER; MALAYSIA/ EXPORTS; FOOD CONSUMPTION; USA

XB8782057

Ismail Bin Ahmad Yusof. [Mushroom industry [in Malaysia]]. Perusahaan cendawan. (Malay). Getah Asli (Malaysia). ISSN 0126-5237. (Sep 1986). p. 2-7. PLEUROTUS; VOLVARIELLA; LENTINUS; MALAYSIA/ MUSHROOM HOUSES; SMALL SCALE ENTERPRISES

XB8782064

Anon. [Processing industry of banana chips]. Perusahaan memproses kerepek pisang. (Malay). Peneroka (Malaysia). ISSN 0126-6349. (1986). v. 18(9) p. 12-14. BANANAS; PREPARED FOODS; PROCESSING; MALAYSIA/ FOOD INDUSTRIES

XB8782085

Lee, E.. Furniture manufacturer: designs on the export market [Malaysia]. (En). Malaysian Business (Malaysia). ISSN 0126-5504. (16 Mar 1987). p. 35. FURNITURE; ENTERPRISES; MALAYSIA; SAUDI ARABIA/ EXPORTS; LOANS; QUALITY

XB8782095

Soh, E.L.. Sericulture: silken perk to Sarawak's growth. (En). Malaysian Business (Malaysia). ISSN 0126-5504. (16 Apr 1987). p. 57-58. \*; SILK; MORUS ALBA; SERICULTURE; SARAWAK

XB8705415

Timber processing zone (TPZ): Higher productivity for Sarawak's forest resources. (En). Perkasa (Malaysia). (Jan 1987)]. v. 3(1) p. 8-11. \*; WOOD INDUSTRY; PRIVATE FIRMS; SMALL SCALE ENTERPRISES;

SARAWAK/ PROCESSING; CENTRALIZATION;  
FOREIGN INVESTMENT

**E50: Sosiologi desa**

XB8705112

A. Hamid Arshat; Anjli Doshi Gandhi; Andy Ramasamy. Population & family development : Malaysia. (En). ISBN 967-9956-4-X. Kuala Lumpur (Malaysia). National Population and Family Development. 1986. 114 p.. Bibliography p. 114. Appendices. \*; FAMILY PLANNING; SOCIOECONOMIC ORGANISATION; MALAYSIA

XB8705195

Uma Deavi Ayyamani (Institut Penyelidikan Perubatan, Kuala Lumpur (Malaysia). Division of Community Health Research). A pilot school health survey to study the incidence of common disorders in primary school children and the role of teachers in the school health service. (En). *Medical Journal of Malaysia (Malaysia)*. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 4-11. \*; HEALTH SERVICES; TEACHERS; SCHOOLS; PENINSULAR MALAYSIA/ SURVEYS; MALNUTRITION

XB8705200

Jelliffe, D.B. (University of California, Los Angeles (USA). School of Public Health). Child health strategies in primary health care. (En). *Medical Journal of Malaysia (Malaysia)*. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 84-87. \*; CHILD CARE; HEALTH; SUCKLING; MOTHERS

XB8782062

Ibrahim Haji Keling. [Vocational training for Felda [Federal Land Development Authority] settlers' youths [in Malaysia]. Latihan vokasional anak peneroka Felda [Federal Land Development Authority, Malaysia]. (Malay). *Peneroka (Malaysia)*. ISSN 0126-6349. (1986). v. 18(9) p. 3-7. \*; RURAL SETTLEMENT; YOUTH; VOCATIONAL; TRAINING; MALAYSIA

**E51: Penduduk desa**

XB8705112

A. Hamid Arshat; Anjli Doshi Gandhi; Andy Ramasamy. Population & family development : Malaysia. (En). ISBN 967-9956-4-X. Kuala Lumpur (Malaysia). National Population and Family Development. 1986. 114 p.. Bibliography p. 114. Appendices. \*; FAMILY PLANNING; SOCIOECONOMIC ORGANISATION; MALAYSIA

**E70: Niaga, pemasaran dan edaran**

XB8605139

Lau, J.L.C. (Pepper Marketing Board, Kuching, Sarawak). Market outlook for pepper [Piper nigrum]. (En).

Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 203-210. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; WORLD MARKETS; PRICES; FORECASTING/ DEMAND; SUPPLY

XB8605140

Tiong, I.C. (Pepper Marketing Board, Kuching, Sarawak (Malaysia)). The marketing of Malaysian pepper [Piper nigrum]. (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 211-219. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; MARKETING BOARDS; DIRECT MARKETING MALAYSIA/ EXPORTS; DOMESTIC TRADE

XB8705187

Cunnion, P.A. (International Food Development, USA). Product planning, marketing, sales. (En). *Food Technology in Malaysia (Malaysia)*. ISSN 0127-4503. (1986). v. 8 p. 34-38. \*; MARKETS; FOOD INDUSTRIES; MALAYSIA; USA/ ETHNICITY; FOOD PREFERENCES; FOOD SUPPLY

XB8705190

Nichelson, R. (Allied Microbiological Systems Inc., USA). New product development. (En). *Food Technology in Malaysia (Malaysia)*. ISSN 0127-4503. (1986). v. 8 p. 50-53. \*; MARKET COMPETITION; CONSUMER BEHAVIOUR; SALES PROMOTION; PROPRIETARY NAMES/ MARKET RESEARCH; PLANNING

XB8705192

McNulty, B. (American International Group, USA). Insuring your product. (En). *Food Technology in Malaysia (Malaysia)*. ISSN 0127-4503. (1986). v. 8 p. 60-63. \*; TRANSPORT; PACKAGING; INSURANCE; SHIPS

XB8782084

Mehta, M.. Cocoa: fair outlook for cocoa [prices]. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (1 Mar 1987). p. 63. COCOA; INTERNATIONAL AGREEMENTS; PRICES; PRODUCTION CONTROLS/ MALAYSIA; IVORY COAST; BRAZIL; GHANA; NIGERIA

**E71: Niaga antarabangsa**

XB8705167

Export of timber - November 1986 [from Peninsular Malaysia]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 3, 5, 6. WOOD; SAWNWOOD; PLYWOOD; PENINSULAR MALAYSIA/ EXPORTS; VENEERS; MOULDING

XB8705168

1986 - Timber market recovery for Peninsular Malaysia. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 4, 9. SAWNWOOD; PLYWOOD; VENEERS; PENINSULAR MALAYSIA/ EXPORTS; MOULDING; DOMESTIC TRADE

XB8705169

US furniture imports continue to grow [USA]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 6. FURNITURE; CONSUMPTION; IMPORT CONTROLS; USA

XB8705171

Export statistics of Peninsular Malaysia [Wood; January-November 1986]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 10-13. SAWNWOOD; PLYWOOD; VENEERS; PENINSULAR MALAYSIA/ MOULDING; EXPORTS

XB8705172

Export statistics of Sabah [Wood; January-August 1986]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 14. SAWNWOOD; PLYWOOD; VENEERS; SABAH/ EXPORTS

XB8705173

Export statistics of Sarawak [Wood; January-August 1986]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 15. SAWNWOOD; PLYWOOD; VENEERS; SARAWAK/ EXPORTS

XB8705193

Phua, J. (Chase Manhattan Bank, Kuala Lumpur (Malaysia)). Financing export sales. (En). *Food Technology in Malaysia (Malaysia)*. ISSN 0127-4503. (1986). v. 8 p. 64-65. \*; CREDIT; EXPORTS; BANKING; MALAYSIA

XB8782084

Mehta, M.. Cocoa: fair outlook for cocoa [prices]. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (1 Mar 1987). p. 63. COCOA; INTERNATIONAL AGREEMENTS; PRICES; PRODUCTION CONTROLS/ MALAYSIA; IVORY COAST; BRAZIL; GHANA; NIGERIA

XB8782085

Lee, E.. Furniture manufacturer: designs on the export market [Malaysia]. (En). *Malaysian Business (Malay-*

*sia)*. ISSN 0126-5504. (16 Mar 1987). p. 35. FURNITURE; ENTERPRISES; MALAYSIA; SAUDI ARABIA/ EXPORTS; LOANS; QUALITY

XB8782086

Anon. KLCE: Bears on the romp [for palm oil future prices]. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (16 Mar 1987). p. 73-75. PALM OILS; VEGETABLE OILS; WHOLESALE PRICES; FUTURES TRADING/ INTERNATIONAL TRADE; YIELD FORECASTING

XB8782091

Ngam, S.M.. Chicken processing: potential in frozen chicken. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (1 Apr 1987). p. 48, 49. CHICKENS; FROZEN MEAT; MARKET COMPETITION; MALAYSIA/ EXPORTS

**E72: Niaga dalam negeri**

XB8705168

1986 - Timber market recovery for Peninsular Malaysia. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 4, 9. SAWNWOOD; PLYWOOD; VENEERS; PENINSULAR MALAYSIA/ EXPORTS; MOULDING; DOMESTIC TRADE

XB8705170

Domestic trade. Month: November 1986 [Wood; Peninsular Malaysia]. (En). *Maskayu (Malaysia)*. ISSN 0126-771X. (Jan 1987). v. 1 p. 7, 8. HARDWOOD; LOGS; PLYWOOD; PENINSULAR MALAYSIA/ PRICES

**E73: Ekonomi pengguna**

XB8705204

S.M. Mohamed Idris. Malaysian consumers and development. (En). *Pulau Pinang (Malaysia)*. CAP. 1986. 97 p.. MALAYSIA; CONSUMER PROTECTION; CONSUMER BEHAVIOR; ECONOMIC DEVELOPMENT

**E80: Ekonomi rumah tangga, industri dan kraf**

XB8705112

A. Hamid Arshat; Anjli Doshi Gandhi; Andy Ramasamy. Population & family development: Malaysia. (En). ISBN 967-9956-4-X. Kuala Lumpur (Malaysia). National Population and Family Development. 1986. 114 p.. Bibliography p. 114. Appendices. \*; FAMILY PLANNING; SOCIOECONOMIC ORGANISATION; MALAYSIA

XB8705115

Abdul Kader Hussain. [A guide to basic children health]. *Suluh asuhan panduan asas kesihatan anak.*

(Malay). ISBN 967-61-0095-1. Kuala Lumpur (Malaysia). Utusan Publications & Distributors Sdn. Bhd.. 1986. 212 p.. \*; CHILDREN; CHILD CARE; CHILD FEEDING; HEALTH

**F: SAINS TUMBUHAN  
DAN PENGELUARAN**

**F01: Perusahaan tanaman**

XB8705114

Pushparajah, E.; Chew, P.S.(eds.). Cocoa and coconuts : progress and outlook. (En). ISBN 967-9949-21-4. Kuala Lumpur (Malaysia). Incorporated Society of Planters. 1986. 947 p.. THEOBROMA CACAO; COCOS NUCIFERA/ PLANT PRODUCTION; PLANT BREEDING

XB8605119

Bong, C.F.J.; Mohd Said Saad (Universiti Pertanian Malaysia, Kuching, Sarawak) . The present status of pepper [*Piper nigrum*] in Malaysia . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 1-15. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; THEOBROMA CACAO; FARM AREA; SARAWAK/ RESEARCH; CULTIVATION

XB8605127

Wong, T.H. (Jabatan Pertanian, Kuching, Sarawak (Malaysia). Pusat Penyelidikan Pertanian). Agronomic recommendations for pepper [*Piper nigrum*] cultivation in Sarawak . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 71-88. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; INTENSIVE FARMING; SMALL SCALE FARMING; SARAWAK/ PRODUCTION COSTS; VEGETATIVE PROPAGATION; SOIL MANAGEMENT; CULTIVATION

XB8605129

Wong, T.H.; Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia). Pusat Penyelidikan Pertanian) . Effect of cover plants on early growth and yield of pepper (*Piper nigrum* L.) . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 95-103. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; DESMODIUM; CENTROSEMA

PUBESCENS; SARAWAK/ WEEDING; NUTRIENT CONTENT; ROOTING

XB8705161

Teow, S.S.. A simple method for the cultivation of oyster mushroom (*Pleurotus Sajor-Caju*). (En). *Ikhtisar* (Malaysia). (1986). v. 1(1) p. 21-23. PLEUROTUS; SAWDUST; MALAYSIA/ CULTIVATION

XB8782059

Abu Bakar Haji Ahmad, Haji. [Planting techniques [*Hevea brasiliensis*]]. Teknik menanam. (Malay). *Gedah Asli* (Malaysia). ISSN 0126-5237. (Sep 1986). p. 14-17. HEVEA BRASILIENSIS; PLANTING; PROPAGATION MATERIALS; MALAYSIA

XB8782075

Zainal Taib. [Preparation of coffee [*Coffea*] plant nursery [in Malaysia]]. Persediaan tapak semaian kopi. (En). *Kemajuan Penyelidikan* (Malaysia). (Jan 1987). v. 8 p. 10-11. COFFEA; PLANT NURSERIES; SEEDBED PREPARATION; MALAYSIA/ TRANSPLANTING; WEEDING; APPLICATION METHODS

XB8782081

Tropical cabbage [in Sarawak]. (En, Malay). *Farmers' Bulletin* (Malaysia). (Feb 1987). (no. 263) p. 1. CABBAGES; PLANT NURSERIES; TRANSPLANTING; SARAWAK/ FERTILIZERS; VARIETIES

XB8782102

Dabai [*Canarium odontophyllum*] [in Sarawak]. (En, Malay). *Farmers' Bulletin* (Malaysia). (Apr 1987). (no. 265) p. 1. \*; TROPICAL FRUITS; SARAWAK/ PLANTING

**F02: Pembiakan tumbuhan**

XB8605122

Kadin Empari; Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia) . Stem anatomy of *Piper nigrum* and *Piper colubrinum* and the development of their graft union . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 35-42. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; STEMS; VASCULAR BUNDLES; GRAFT UNIONS/ TRANSLOCATION; GRAFT COMPATIBILITY; NECROSIS; CELL WALLS

XB8605130

Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia). Propagation of single-node pepper [*Piper nigrum*] cuttings . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceed-

ings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 105-113. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CUTTINGS; TISSUE CULTURE; SARAWAK/ GENOTYPES; NAA; IBA; ROOTING

**F03: Pengeluaran biji benih**

XB8705209

Leong, Dato K.S. [Oil palm germplasm and its utilisation] . (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 4-7. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; GERMPPLASM/ USES

**F04: Membaja**

XB8782060

Know your fertilizers better. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Jan 1987). (no. 262) p. 1. \*; COMPOUND FERTILIZERS; APPLICATION METHODS; FORMULATIONS/ COMPOSITION

XB8782068

Palaniappan, S.; Rusdi Embong. [The application of oil palm mill effluent on cash crop [in Malaysia]]. Penggunaan pepejal sisa kilang sawit (POME) bagi tanaman kontan. (Malay). *Kemajuan Penyelidikan (Malaysia)*. (Sep 1986). v. 7(1) p. 7-10. \*; WASTES; PALM OILS; APPLICATION METHODS; MALAYSIA/ DRY MATTER CONTENT; LYCOPERSICON ESCULENTUM; HIBISCUS ESCULENTUS; CAPSICUM ANNUUM

XB8782083

Know your fertilizers better. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Feb 1987). (no. 263) p. 4. \*; NITROGEN FERTILIZERS; USES; NITROGEN CONTENT/ APPLICATION METHODS

XB8782100

Know your fertilizers better - 3. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Mar 1987). (no. 264) p. 1. \*; ROCK PHOSPHATE; SUPERPHOSPHATE; DICALCIUM PHOSPHATE/ COMPOSITION

XB8782104

Know your fertilizers better. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Apr 1987). (no. 265) p. 4. \*; POTASSIUM CHLORIDE; POTASSIUM SULPHATE; SARAWAK

**F30: Genetik dan pembiakbaikan tumbuhan**

XB8705114

Pushparajah, E.; Chew, P.S.(eds.). Cocoa and coconuts : progress and outlook. (En). ISBN 967-9949-21-4. Kuala Lumpur (Malaysia). Incorporated Society of Planters. 1986. 947 p.. THEOBROMA CACAO; COCOS NUCIFERA/ PLANT PRODUCTION; PLANT BREEDING

XB8605124

Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia) . Pepper breeding in Malaysia . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 47-55. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; PHYTOPHTHORA; DISEASE RESISTANCE; MALAYSIA/ GENOTYPES; GERMPPLASM; CULTIVARS; SELECTION

XB8605125

Mohd Said Saad; Bong, C.F.J. (Universiti Pertanian Malaysia, Kuching, Sarawak) . Genetics and breeding strategy of Piper nigrum L. (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 57-65. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CHROMOSOME MANIPULATION; INDUCED MUTATION; MALAYSIA/ HYBRIDIZING; GENOTYPES; DISEASE RESISTANCE

XB8605126

Mohd Idris Zainal Abidin; Mohamad Zakaria Hussin (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Pertanian) . Mass screening of pepper (Piper nigrum L.) seedling for resistance to Phytophthora palmivora . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 67-70. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; PHYTOPHTHORA; DISEASE RESISTANCE; SARAWAK/ VARIETIES; OPEN POLLINATION; EVALUATION; SEEDLINGS; SELECTION

XB8782079

Chin, C.W. [Improvement comparison of seedling from Deli x La Me and Deli x Yangambi/AVROS in plant nurseries]. Perbandingan prestasi anak benih Deli

x La Me dan Deli x Yangambi/AVROS di tapak se-  
maian. (Malay). *Kemajuan Penyelidikan (Malaysia)*.  
(Jan 1987). v. 8 p. 22. ELAEIS GUINEENSIS; PLANT  
NURSERIES; SEEDLINGS/ MORTALITY

**XB8705208**

Anuwar Mahmud, Tan Sri Datuk Dr . [Oil palm  
germplasm and its utilisation] . (En). Proceedings of  
International Workshop on Oil Palm Germplasm and  
Utilisation. Bangi, Selangor (Malaysia). IPMKSM  
1986. p. 1-3. [International Workshop on Oil Palm  
Germplasm and Utilisation, Bangi, Selangor (Malay-  
sia), 26-27 Mar 1985]. OIL PALMS; GERMPLASM/  
USES

**XB8705210**

Anishetty, N.M. Plant genetic resources - an overview  
of the International Board for Plant Genetic Resources  
(IBPGR) Programme . (En). Proceedings of Interna-  
tional Workshop on Oil Palm Germplasm and Utilisa-  
tion. Bangi, Selangor (Malaysia). IPMKSM 1986. p.  
11-14. [International Workshop on Oil Palm  
Germplasm and Utilisation, Bangi, Selangor (Malay-  
sia), 26-27 Mar 1985]. OIL PALMS; GERMPLASM/  
GENETIC RESOURCES; GERMPLASM CONSER-  
VATION; PLANT COLLECTIONS

**XB8705211**

Lawrence, M.J.; Rajanaidu, N. The genetical structure  
of natural populations and sampling strategy. (En). Pro-  
ceedings of International Workshop on Oil Palm  
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sia). IPMKSM 1986. p. 15-26. [International Work-  
shop on Oil Palm Germplasm and Utilisation, Bangi,  
Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS;  
GERMPLASM/ PLANT POPULATION; PLANT  
COLLECTIONS; GENETICS; EVALUATION

**XB8705212**

Rosenquist, E.A. The genetic base of oil palm breeding  
populations . (En). Proceedings of International Work-  
shop on Oil Palm Germplasm and Utilisation. Bangi,  
Selangor (Malaysia). IPMKSM 1986. p. 27-56. [Inter-  
national Workshop on Oil Palm Germplasm and Utili-  
sation, Bangi, Selangor (Malaysia), 26-27 Mar 1985].  
OIL PALMS; INDONESIA; ZAIRE; CAMEROON/  
GERMPLASM; GENETIC RESOURCES; PLANT  
BREEDING; PLANT POPULATION

**XB8705213**

Rajanaidu, N. (Institut Penyelidikan Minyak Kelapa  
Sawit Malaysia, Bangi, Selangor) . The oil palm (*Elaeis  
guineensis*) collections in Africa. (En). Proceedings of  
International Workshop on Oil Palm Germplasm and  
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Germplasm and Utilisation, Bangi, Selangor (Malay-  
sia), 26-27 Mar 1985]. ELAEIS GUINEENSIS; NIGE-  
RIA; CAMEROON; ZAIRE/ GENETIC RE-

SOURCES; PLANT COLLECTIONS; PLANT  
BREEDING

**XB8705214**

Rajanaidu, N. *Elaeis oleifera* collection in Central and  
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Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar  
1985]. COROZO OLEIFERA; CENTRAL AMER-  
ICA; SOUTH AMERICA/ PLANT COLLECTIONS

**XB8705215**

De Miranda Santos, M.; Barcelos, E.; Nascimento, J.C.  
Genetic resources of *Elaeis Oleifera*, (HBK) [Humboldt  
Bonpland Kunith] Cortes, in the Brazilian Amazon.  
(En). Proceedings of International Workshop on Oil  
Palm Germplasm and Utilisation. Bangi, Selangor  
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Workshop on Oil Palm Germplasm and Utilisation,  
Bangi, Selangor (Malaysia), 26-27 Mar 1985].  
COROZO OLEIFERA; AMAZONAS (BRAZIL)/  
GENETIC RESOURCES

**XB8705216**

Barcelos, E.; De Miranda Santos, M.; Maria Elizabeth;  
Vasconcellos, C. Phenotypic variation in natural popu-  
lations of *Caiaue, Elaeis oleifera*, HBK [Humboldt Bon-  
pland Kunith] cortes in Brazilian Amazon. (En). Pro-  
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Germplasm and Utilisation. Bangi, Selangor (Malay-  
sia). IPMKSM 1986. p. 102-116. [International Work-  
shop on Oil Palm Germplasm and Utilisation, Bangi,  
Selangor (Malaysia), 26-27 Mar 1985]. COROZO  
OLEIFERA; AMAZONAS (BRAZIL)/ PHENO-  
TYPES; PLANT POPULATION

**XB8705217**

Rajanaidu, N.; Rao, V. (Institut Penyelidikan Minyak  
Kelapa Sawit Malaysia, Bangi, Selangor) . Performance  
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rial . (En). Proceedings of International Workshop on  
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Workshop on Oil Palm Germplasm and Utilisation,  
Bangi, Selangor (Malaysia), 26-27 Mar 1985]. ELAEIS  
GUINEENSIS; FATTY ACIDS; NIGERIA/ GE-  
NETIC RESOURCES; COMPOSITION

**XB8705218**

Muenier, J.; Baudouin, L. Evaluation and utilisation of  
yocoboue population of *Elaeis guineensis* . (En). Pro-  
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Selangor (Malaysia), 26-27 Mar 1985]. ELAEIS  
GUINEENSIS; IVORY COAST/ GENETIC RE-

## SOURCES; PLANT POPULATION

XB8705220

Chan, K.W.(Guthrie Research Chemara, Seremban (Malaysia)); Ong, E.C.; Tan, K.S.; Lee, C.H.; Law, I.H. The performance of oil palm genetic laboratory (OPGL) germplasm material. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 162-174. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; GERMPLASM/ PROGENY FORMS; PERFORMANCE

XB8705219

Rajanaidu, N.; Tan, Y.P.; Ong, E.C.; Lee, C.H. The performance of inter-origin commercial DXP planting material. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 155-161. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; GERMPLASM/ PLANT BREEDING; EVALUATION

XB8705221

Rajanaidu, N; Ngui, M; Ong, E.C.; Lee, H.H. Sabah breeding programme (SBP). (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 175-188. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; SABAH/ PLANT BREEDING

XB8705222

Breure, C.J.; Rosenquist, E.A.; Konimor, J.; Powell, M.S. Oil palm introductions to Papua New Guinea and the formulation of selection methods at Dami Oil Palm Research Station. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 189-193. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; MAGNESIUM; PAPUA NEW GUINEA/ MINERAL DEFICIENCIES; PLANT BREEDING

XB8705224

Paranjothy, K.; Rohani Othman; Ahmad Tarmizi Hashim (Institut Penyelidikan Minyak Kelapa Sawit, Bangi, Selangor). Oil palm germplasm conservation: the possible use of in vitro methods. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 202-205. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS/ GERMPLASM;

## GERMPLASM CONSERVATION; EMBRYO CULTURE

XB8705223

Hardon, J.J. Long term conservation of oil palm (*Elaeis guineensis*). (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 197-201. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. ELAEIS GUINEENSIS/ PLANT POPULATION; GERMPLASM CONSERVATION

XB8705225

Kang, S.M. (Jabatan Pertanian, Kuala Lumpur (Malaysia). Cawangan Perlindungan Tanaman). Plant quarantine in the International transfer of oil palm genetic material. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 206-215. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; GERMPLASM; PESTS/ GENETIC RESOURCES; QUARANTINE

XB8705226

Engelmann, F.; Dereuddre, J.; Meunier, J. Cryopreservation of oil palm somatic embryos. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 216-217. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; TISSUE CULTURE; EMBRYO; NITROGEN/ GERMPLASM; FREEZING

XB8705227

Ghesquiere, M.; Meunier, J. Enzymatic electrophoresis on *Elaeis guineensis*: Application to germplasm collections. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 218-227. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. ELAEIS GUINEENSIS; GERMPLASM/ ENZYMIC ACTIVITY; ELECTROPHORESIS

XB8705228

Okwuagwu, C.O. The genetic base of the NIFOR [Nigerian Inst. for Oil Palm Research] oil palm breeding programme. (En). Proceedings of International Workshop on Oil Palm Germplasm and Utilisation. Bangi, Selangor (Malaysia). IPMKSM 1986. p. 228-237. [International Workshop on Oil Palm Germplasm and Utilisation, Bangi, Selangor (Malaysia), 26-27 Mar 1985]. OIL PALMS; NIGERIA/ GENETIC RESOURCES; PLANT BREEDING

**F40: Ekologi tumbuhan**

XB8705207

Saberi Othman . Ecology introduction. **Pengenalan Ekologi. (Malay)**. Kuala Lumpur. Dewan Bahasa dan Pustaka. 1986. 100 p.. Bibliography p. 100. \*; ECO-SYSTEMS; POLLUTION

**F50: Struktur tumbuhan**

XB8605122

Kadin Empari; Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia) . Stem anatomy of Piper nigrum and Piper colubrinum and the development of their graft union . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 35-42. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; STEMS; VASCULAR BUNDLES; GRAFT UNIONS/ TRANSLOCATION; GRAFT COMPATIBILITY; NECROSIS; CELL WALLS

**F60: Fisiologi dan biokimia tumbuhan**

XB8705175

Yeang, H.Y. (Institut penyelidikan Getah Malaysia, Kuala Lumpur). Impedance of latex exudation by the bark excision wound during tapping [Hevea brasiliensis]. (En). **Journal of Natural Rubber Research**. ISSN 0127-7065. (Jun 1986). v. 1(2) p. 89-96. HEVEA BRASILIENSIS; LATEX; TAPPING; COAGULATING/ EXCISION; YIELDS; FLOW; BARK

**F62: Fisiologi tumbuhan - pertumbuhan dan perkembangan**

XB8705114

Pushparajah, E.; Chew, P.S.(eds.) . Cocoa and coconuts : progress and outlook. (En). ISBN 967-9949-21-4. Kuala Lumpur (Malaysia). Incorporated Society of Planters. 1986. 947 p.. THEOBROMA CACAO; COCOS NUCIFERA/ PLANT PRODUCTION; PLANT BREEDING

**F63: Fisiologi tumbuhan - pengeluaran**

XB8605120

Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia) . Origin, distribution and botany of pepper (Piper nigrum L.) . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia

1986. p. 17-24. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CLIMBERS; PLANT ANATOMY; SELF-POLLINATION/ HISTORY

XB8705370

Makhdzir Mardan; Noor Azhar Zainal (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan) . The effects of bat exclusion with wire-mesh on the pollination of durian (Durio zibethinus) [in Peninsular Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 320. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. DURIO ZIBETHINUS; BATS; APIS; PENINSULAR MALAYSIA/ POLLINATION; FRUITING; FRUIT DROP

XB8705372

Abdul Ghani Ibrahim; Mohd Yusof Jamil (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan) . Pollinating activities of dipterous insects on cocoa [Theobroma cacao] flowers [in Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 322. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; CERATOPOGINAE; CECIDOMYIIDAE; MALAYSIA/ POLLINATORS; DROSOPHILA

**F70: Taksonomi dan geografi tumbuhan**

XB8605120

Sim, S.L. (Jabatan Pertanian, Kuching, Sarawak (Malaysia) . Origin, distribution and botany of pepper (Piper nigrum L.) . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 17-24. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CLIMBERS; PLANT ANATOMY; SELF-POLLINATION/ HISTORY

XB8605121

Pearce, K.G. (Universiti Pertanian Malaysia, Kuching, Sarawak. Jabatan Perhutanan) . A look at the genus Piper in Malaysia . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 25-33. Received Mar. 1987. [Na-



tional Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER; SPECIES; CASH CROPS; MALAYSIA

## H: PERLINDUNGAN TUMBUHAN

### H01: Perlindungan tumbuhan - aspek am

XB8705181

Teoh, C.H. (Harrisons Malaysian Plantation Bhd., Kajang, Selangor. Prang Besar Research Station); Ooi, A.C.P.. Towards more effective plant protection in the tropics. (En). *Journal of Plant Protection in the Tropics (Malaysia)*. ISSN 0127-6883. (Jun 1986). v. 3(1) p. 51-72. \*; PESTS; EDUCATION; PEST CONTROL; TROPICS/ CROP LOSSES; PRODUCTION COSTS; PLANT PROTECTION

XB8782067

Leong, C.W.. [Advisory service - crop protection [in Malaysia]]. *Khidmat nasihat - kawalan tanaman (Malay)*. *Kemajuan Penyelidikan (Malaysia)*. (Sep 1986). v. 7(1) p. 5-6. ELAEIS GUINEENSIS; THEOBROMA CACAO; HEVEA BRASILIENSIS; MALAYSIA/ PEST INSECTS; PLANT DISEASE CONTROL

XB8705345

Jonglaekha, N. (Chiang Mai Univ., Thailand. Department of Plant Pathology); Thanormthin, V. (Ministry of Agriculture and Cooperatives, Thailand. Department of Agriculture). Plant protection strategies for hill tribe agriculture in Northern Thailand. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 267-268. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ADVISORY OFFICERS; HIGHLAND; ETHNICITY; THAILAND/ PLANT PROTECTION

XB8705367

Chung, H.-S. (Seoul National Univ., Suwan (Korea Republic). Department of Agricultural Biology). Perspectives and strategies of crop protection in Korea [Korea Republic]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 315. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INTEGRATED CONTROL; PEST CONTROL; KOREA REPUBLIC

XB8705375

Teoh, C.H. (Harrisons Malaysian Plantations Berhad, Kajang, Selangor (Malaysia). Prang Besar Research Station); Ooi, A.C.P. Towards more effective plant protection in the tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended

Abstracts. Serdang, Selangor (Malaysia). 1986. p. 327. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTS; TECHNOLOGY; INTEGRATED CONTROL; MALAYSIA/ CROP LOSSES; FARMERS

### H10 : Perosak tumbuhan

XB8605131

Kueh, T.K. (Jabatan Pertanian, Kuching, Sarawak (Malaysia)). Pests and diseases of black pepper [Piper nigrum] - a review. (En). Bong, C.F.J.; Mohd Said Saad (eds.). *Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia*. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 115-133. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; MELOIDOGYNE; PEST INSECTS; SARAWAK/ BIRD CONTROL; CHEMICAL CONTROL; TRAPS; COLLETOTRICHUM; CORTICIUM; PHYTOPHTHORA; PLANT DISEASE CONTROL

XB8605134

Mohd Anuar Abbas (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Kluang, Johor. Stesen Penyelidikan). Early progress of work on the biology and control of the pepper [Piper nigrum] weevil, *Lophobaris piperis* Marshl. (Coleoptera: Curculionidae). (En). Bong, C.F.J.; Mohd Said Saad (eds.). *Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia*. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 147-154. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; COLEOPTERA; BIOLOGICAL CONTROL; ARTHROPODS/ PEST INSECTS; LIFE CYCLE; FECUNDITY; INSECTICIDES

XB8705177

Brader, L. (FAO, Rome (Italy). Plant Production and Protection Div.). Problems of pesticide usage in the tropics. (En). *Journal of Plant Protection in the Tropics (Malaysia)*. ISSN 0127-6883. (Jun 1986). v. 3(1) p. 1-11. PESTICIDES; APPLICATION METHODS; ENVIRONMENT POLICIES; TROPICS/ PUBLIC HEALTH

XB8705178

Khoo, S.G. (Universiti Malaya, Kuala Lumpur (Malaysia)). Pest outbreaks in the tropics. (En). *Journal of Plant Protection in the Tropics (Malaysia)*. ISSN 0127-6883. (Jun 1986). v. 3(1) p. 13-24. \*; ORYZA SATIVA; ELAEIS GUINEENSIS; THEOBROMA CACAO; TROPICS/ PERENNIAL; PLANTATIONS; CHILO; LEPTOCORISA; LOCUSTA; PEST INSECTS

XB8705179

Delp, C.J. (Intersociety Consortium for Plant Protection, Washington, District of Columbia (USA). Trends in tropical pesticide use. (En). **Journal of Plant Protection in the Tropics (Malaysia)**. ISSN 0127-6883. (Jun 1986). v. 3(1) p. 25-37. \*; PESTICIDES; LAWS; TRAINING; TROPICS/ PEST CONTROL

XB8782076

Ibrahim Ali, Wan. [Fruit-borers beetles in Coffea [in Malaysia]]. Kumbang penggorek buah kopi. (Malay). **Kemajuan Penyelidikan (Malaysia)**. (Jan 1987). v. 8 p. 12-13. COFFEA; COLEOPTERA; PEST INSECTS; MALAYSIA/ LIFE CYCLE; PEST CONTROL

XB8782090

Ngam, S.M.. Pesticide abuse: healthier way to pest control. (En). **Malaysian Business (Malaysia)**. ISSN 0126-5504. (1 Apr 1987). p. 26. \*; PESTICIDES; RESIDUES; TOXOCITY; FUNGICIDES; MALAYSIA/ INSECTICIDES; PEST CONTROL

XB8705229

Khoo, S.G. (Universiti Malaya, Kuala Lumpur (Malaysia)). Pest outbreaks in the Tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 1-2. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; LOWLAND; PEST INSECTS; RICE; TROPICS/ COCOA; OIL PALMS

XB8705239

Denno, R.F. (University of Maryland, College Park (USA). Department of Entomology). The evolution of planthopper life history traits in natural systems: the role of host plants. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 21. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; CERCOPIIDS; SALT MARSHES; HOSTS; NORTH AMERICA/ LIFE CYCLE; MIGRATION; HABITATS

XB8705240

Sogawa, K. (Directorate of Food Crop Protection, Jakarta (Indonesia)). The brown planthopper biotypes in resistant rice [*Oryza sativa*] varieties in Indonesia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 22-23. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NILAPARVATA; BIOTYPES; INDONESIA/ VIRULENCE; DISEASE RESISTANCE

XB8705242

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XB8705243

Yamamoto, I. (Tokyo University of Agriculture, Japan). Significance of pesticide mixing with particular emphasis on insecticide resistance of plant and leafhoppers. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 27. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; FORMULATIONS; PESTICIDE RESISTANCE

XB8705245

Habibuddin, H.; Othman, O.; Takita, T.; Mohamed Mohd Salleh (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Bumbung Lima, Seberang Perai. Bahagian Penyelidikan Padi). The leaf and planthopper problems and their control in Peninsular Malaysia [*Oryza sativa*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 32-33. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NILAPARVATA; NEPHOTETTIX; PENINSULAR MALAYSIA/ VIROSES; PEST CONTROL; BIOTYPES; PEST RESISTANCE

XB8705246

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XB8705247

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XB8705248

Khoo, K.C.; Rita Muhamad (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Ecology of cocoa [*Theobroma cacao*] mirids [Peninsular Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 38-40. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; ? HELOPELTIS; NATURAL ENEMIES; PENINSULAR MALAYSIA/ ECOLOGY; FRUIT; CLIMATE

XB8705249

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XB8705250

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XB8705251

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TERA; PAPUA NEW GUINEA/ SPECIES; RESEARCH; NATURAL ENEMIES

XB8705252

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XB8705253

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XB8705254

Mohd Yusof Hussein (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Some aspects of the ecology of the oriental corn borer *Ostrinia furnacalis* (Guenee) [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 55-56. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; OSTRINIA; INSECTICIDES; PEST CONTROL; MALAYSIA/ ECOLOGY; PREDATORS; PARASITES

XB8705255

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XB8705256

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XB8705257

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XB8705261

Hamelink, J. Using leaf areas of "practically healthy" maize [*Zea mays*] plants to determine potential yield in crop loss assessment study . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 74. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ZEA MAYS; CROP LOSSES; YIELD FACTORS/ TRIALS; LIFE CYCLE

XB8705264

Ho, C.T. (Harrisons Malaysian Plantations Berhad, Kajang, Selangor (Malaysia). Prang Besar Research Station) . Effectiveness of first and second generation anticoagulants and other rodenticides on problem rat populations in Peninsular Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 82-92. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; RATS; RODENTICIDES; RODENT CONTROL; PENINSULAR MALAYSIA/ PESTICIDE RESISTANCE

XB8705265

Lam, Y.H. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Seberang Perai. Bahagian Penyelidikan Padi) . Rodent problems in rice [*Oryza sativa*] and their control [in Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 93-95. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar

1986]. ORYZA SATIVA; RATS; PEST CONTROL METHODS; MALAYSIA/ CROP LOSSES

XB8705266

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XB8705267

Kamal Adzham Kamaruddin; Salmah Idris (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Makmal Penyelidikan Pusat) . Race-typing of *Rattus* species in four major crop agrosystems [in Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 98-99. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; RATS; PLANTATIONS; RODENT CONTROL; MALAYSIA/ ECOSYSTEMS; SPECIES

XB8705268

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XB8705276

Lim, G.T. (Jabatan Pertanian, Tawau, Sabah (Malaysia). Stesen Penyelidikan Koko) . Seasonal fluctuation of cocoa podborer *Conopomorpha cramerella* Snellen in Tawau, Sabah . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 114. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ? CONOPOMORPHA CRAMERELLA; THEOBROMA CACAO; POPULATION DENSITY; SABAH/ INFESTATION; PARASITISM; CLIMATE

XB8705277

I. Azhar; S. Roslan; M.A. Norhazazi (Institut Penye-

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XB8705278

Lim, G.T.; Chong, T.C. (Jabatan Pertanian, Tawau, Sabah (Malaysia). Stesen Penyelidikan Koko) . Biological control of cocoa podborer *Conopomorpha cramerella* Snellen in Sabah, Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 116. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; ? CONOPOMORPHA CRAMERELLA; BIOLOGICAL CONTROL; SABAH/ QUALITY; PARASITISM

XB8705279

Lim, G.T.; Pary, T.C.; Pan, K.Y. (Jabatan Pertanian, Sabah (Malaysia)) . Vertical distribution of the cocoa podborer *Conopomorpha cramerella* Snellen [Sabah] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 117. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; ? CONOPOMORPHA CRAMERELLA; NATURAL DISTRIBUTION; SABAH/ FRUIT; HYBRIDS; HEIGHT

XB8705280

Tan, C.L. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor) . *Acrocercops* spp. (Lepidoptera: Gracillariidae) and their parasitoids in Peninsular Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 118-120. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ? CONOPOMORPHA CRAMERELLA; NEPHELIUM LAPPACEUM; PARASITISM; PENINSULAR MALAYSIA/ NEPHELIUM MUTABILE; BIOLOGICAL CONTROL

XB8705281

Sim, C.H. (Jabatan Pertanian, Tuaran, Sabah (Malaysia). Pusat Penyelidikan Pertanian) . An investigation on the chemical control of cocoa podborer (*Conopomorpha cramerella* Snellen) [in Sabah] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 121-122. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; ? CONOPOMORPHA CRAMERELLA; INSECTICIDES; SABAH/ CHEMICAL CONTROL; SPRAYS

XB8705282

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XB8705283

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XB8705284

Tee, S.P.; Krishnan, A. (I.C.I. Agriculture Sdn. Bhd., Kuala Lumpur (Malaysia)) . Efficacy of some insecticides against leaf-miner, *Liriomyza* sp. (Diptera: Agromyzidae) on sweet pea [in Peninsular Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 128-129. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PISUM SATIVUM; LIRIOMYZA; INSECTICIDES; PENINSULAR MALAYSIA/ CHEMICAL CONTROL; LARVAE

XB8705285

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*Plutella xylostella* [in Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 130-131. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PLUTELLA; GROWTH PROMOTERS; INSECTICIDES; MALAYSIA/ CHEMICAL CONTROL

XB8705286

Ba-Angood, S.A.; Hubaishan, M.A. (University of Aden, Khumaksar. Faculty of Agriculture). Control of tomato fruitworm *Heliothis armigera* (Hb) at different infestation levels on tomato in PDR Yemen [Democratic Yemen] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 132-133. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. LYCOPERSICON ESCULENTUM; HELIOTHIS; DEMOCRATIC YEMEN/ SPRAYS; INFESTATION

XB8705287

Yeoh, H.F. (Jabatan Pertanian, Kuala Lumpur (Malaysia). Cawangan Perlindungan Tanaman); Hatzold, T.; Moktar Yusof; Sawiyah Alias . Preliminary investigations into the levels of insecticide residues in some locally available vegetables . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 134-135. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. LYCOPERSICON ESCULENTUM; BRASSICA CHINENSIS; PESTICIDES; PENINSULAR MALAYSIA/ RESIDUES; BRASSICA OLERACEA

XB8705288

Hotzold, T. (Deutsche Gesellschaft fur Technische Zusammenarbeit, Germany. Malaysian-German Pesticide Project) . Degradation of methamidophos after application on Brassica leafy vegetables under Malaysian conditions . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 136-137. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BRASSICA RAPA; BRASSICA OLERACEA; PESTICIDES; MALAYSIA/ RESIDUES; DEGRADATION; TRIALS

XB8705289

Brader, L. (FAO, Rome (Italy). Plant Production and Protection Div.) . Problems of pesticide usage in the tropics . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Ser-

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XB8705290

Bottrell, D.G. (Maryland Univ., College Park (USA). Department of Entomology . Applications and problems of integrated pest management in the tropics . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 139. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INTEGRATED CONTROL; SOUTH EAST ASIA; TROPICS/ PESTICIDES; EDUCATION

XB8705291

Vijayasegaran, S. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Bahagian Penyelidikan Buah-Buahan) . *Thrips parvispinus* Carney (Thripidae: Thysanoptera) - A potential new pest of papaya [*Carica papaya*] [in Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 140-142. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CARICA PAPAYA; THRIPS (GENUS); INSECTICIDES; MALAYSIA/ VARIETIES; FLOWERS

XB8705292

Muney Serit; Tan, K.H. (Sains Malaysia Univ., Minden, Pulau Pinang. Kajian Sains Biologi) . Population dynamics of *Dacus dorsalis* in relation to its host-fruit phenology and meteorological factors [in Peninsular Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 143-144. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; DACUS; PSIDIUM GUAJAVA; AVERRHOA CARAMBOLA; PENINSULAR MALAYSIA/ POPULATION DYNAMICS; METEOROLOGICAL OBSERVATIONS; FRUIT

XB8705293

Rohani Ibrahim (Pertanian Malaysia Univ., Serdang, Selangor) . Common fruit fly larvae infesting fruits and vegetables in Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 146-147. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics,

Genting Highlands (Malaysia), 17-20 Mar 1986]. \*;  
DACUS; LARVAE; MALAYSIA/ SPECIES

XB8705294

Omolo, E.O. (International Centre of Insect Physiology and Ecology, Nairobi, (Kenya)) . Pest complex under sorghum-maize-cowpea intercropping systems tested in Kenya . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 148. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ZEA MAYS; SORGHUMS; COWPEAS; KENYA/ INTERCROPPING; CULTURAL CONTROL; FRUIT DAMAGING INSECTS

XB8705295

Tan, K.H.; Muney Serit (Sains Malaysia Univ., Minden, Pulau Pinang. Kajian Sains Biologi) . Movements and population sizes of native male adult *Dacus dorsalis* (Diptera: Tephritidae) in three ecosystems in Tanjong Bungah, Penang, Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 149-151. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; DACUS; POPULATION DYNAMICS; ORCHARDS; MALAYSIA/ ECOSYSTEMS; FORESTS; FARMS

XB8705297

Yap, T.H.; Ng, K.Y. (Bayer Sdn. Bhd., Kuala Lumpur (Malaysia)) . Influence of pesticides on the incidence of virus disease and leaf curl symptoms in chilli (*Capsicum annum*) in Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 154. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAPSICUM ANNUUM; APHIS; THRIPS (GENUS); MALAYSIA/ INSECTICIDES; SPRAYS; POLYPHAGOTARSONEMUS; VIROSES

XB8705299

Mochida, O.; Valencia, S.L.; Basilio, R.P. (International Rice Research Inst., Manila (Philippines)) . Occurrence of rice tungro virus disease (RTVD) and its prevention in the Philippines . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 159-160. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; NEPHOTETTIX; INSECTICIDES; VIROSES; PHILIPPINES/ COST ANALYSIS; PLANT VIRUSES

XB8705300

Ismail Bin Ahmad (Kebangsaan Malaysia Univ., Bangi. Fakulti Sains Hayat) . Serological analysis of some cucumovirus isolates and their antisera using Ouchterlony gel diffusion technique and heterologously absorbed antisera . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 161-162. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; CUCUMBER MOSAIC VIRUS; ANTIBODY; ANTIGENS; IMMUNE SERUM

XB8705302

Lim, J.L. (Ciba-Geigy Sdn. Bhd., Petaling Jaya (Malaysia). Agricultural Div.); Khoo, K.C. Experiments on the stem painting technique to control *Aphis gossypii* Glover on cucumber . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 165-166. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CUCUMIS SATIVA; APHIS; INSECTICIDES; MALAYSIA/ PROTECTIVE COATINGS

XB8705303

Tajuddin Hassan, Syed (Pertanian Malaysia Univ., Serdang, Selangor); A. Alwi (Guthrie Research Chemara, Seremban (Malaysia); Noormawati A.G. Visual bagging, D-Vac and sweep net sampling of arthropods on padi plants [*Oryza sativa*] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 167-168. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; ARTHROPODS; PEST INSECTS; MALAYSIA/ SAMPLING

XB8705304

Ginting, C.; Purba, A.; Desmier de Chenon, R. (Pusat Penelitian Kelapa Bandar Kuala, Galang, Sumatra Utara (Indonesia)) . Technique of pesticide root absorption for a longer term protection of coconut seed garden [in Sumatra] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 169. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. COCOS NUCIFERA; PESTICIDES; SUMATRA/ SYSTEMIC ACTION; ROOTS

XB8705305

Chow, Y.S. (Academia Sinica, Taipei (Taiwan). Institute of Zoology) . Pheromonal studies in Taiwan . (En).

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XB8705306

Ramasamy, S.; Nursiah Mohd Tajol Aros (Jabatan Pertanian, Kuala Lumpur (Malaysia). Cawangan Perlindungan Tanaman). A survey on the use of pesticides and its associated incidence of poisoning in Peninsular Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 171-172. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; POISONING; FARMERS; PENINSULAR MALAYSIA/ FORMULATIONS; SAFETY DEVICES; SERVEYS

XB8705308

Ho, C.T.; Sidhu, M. (Harrisons Malaysian Plantations Berhad, Kajang, Selangor (Malaysia). Prang Besar Research Station). Some developments in chemical control of leaf pests of oil palm in East and Peninsular Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 177-187. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HEVEA BRASILIENSIS; INSECTICIDES; PESTICIDE ACTIONS; MALAYSIA/ LEAVES; POLLINATORS; TRIALS

XB8705309

Kohyama, Y. (Research Center Mitsubishi Chemical Industries Ltd., Japan. Agricultural Products Laboratory). Ovicidal activity of MK-139 (CME-134) on some Lepidoptera species [Plutella xylostella; Heliothis; Cnaphalocrocis medinalis]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 188-189. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; GROWTH PROMOTORS; PLUTELLA; HELIOTHIS; CNAPHALOCROCIS/ RELATIVE HUMIDITY; INSECTICIDES

XB8705310

Lim, E.H.; Tan, K.H. (Sains Malaysia Univ., Minden, Pulau Pinang. Kajian Sains Biologi). Susceptibility of Nephotettix virescens (Distant) to several insecticides in Peninsular Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended

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XB8705311

Abe, T.; Takagi, H.; Takimoto, Y.; Fujita, Y. (Sumitomo Chemical Co. Ltd., Takarazuka (Japan). Pesticides Research Lab. Control of Nephotettix cincticeps and Laodelphax striatellus by combination use of fenitrothion and fenvalerate in paddy field [Oryza sativa]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 193-196. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NEPHOTETTIX; LAODELPHAX; INSECTIDES/ CARMATES; ORGANOPHOSPHORUS COMPOUNDS; PESTICIDE RESISTANCE; FORMULATIONS

XB8705312

Kao, S.-S.; Tzeng, C.-C. (Taiwan Agricultural Chemicals and Toxic Substances Research Inst., Taichung. Pesticide Formulation Dept.). Initial toxicity tests of 24 pesticides to adults of Trichogramma chilonis Ishii [in Taiwan]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 197. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; TRICHOGRAMMA; TOXICITY; PESTICIDES; TAIWAN/ EVALUATION; PARASITES

XB8705313

Shires, S.W. (Shell International Chemical Co., London (UK). Agrochemical Div.). An integrated approach to developing a new rice [Oryza sativa] insecticide. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 198-201. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; INSECTICIDES; NEPHOTETTIX; CYPRINUS/ PUNTIUS; FORMULATIONS

XB8705314

Impithuska, S.; Suwarp, R.; Panwiriyapong, S. (Department of Agriculture, Bangkok (Thailand). Agricultural Toxic Substances Div.). The impacts of carbofuran, isazaphos and chlorpyrifos in rice [Oryza sativa] paddy [in Thailand]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986.



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XB8705315

Nangia, N.; Thontadarya, T.S. (Agricultural Sciences Univ., Bangalore (India)) . Persistent toxicity of some pesticides against two larval parasitoids of *Opsina arenosella* Walker [in India] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 203. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PEST INSECTS; PESTICIDES; TOXICITY; INDIA/ FORMULATIONS; PARASITES

XB8705333

Hoogewereff, N.C.H.; Duphar, B.V. (Agricultural Development Department, Weesp (Netherlands)) . The insect growth regulator Dimilin, its main characteristics and use . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 244-245. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; GROWTH PROMOTORS; INSECTICIDES; CHITIN; TOXICITY/ FORMULATIONS

XB8705334

Owusu-Manu, E. (Cocoa Research Inst., Tafo-Akim (Ghana)) . Effect of some insecticides on *Distantiella theobroma* (Dist.) and *Sahlbergella singularis* Hagl. (Hemiptera: Miridae) populations . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 246-247. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INSECTICIDES; HETEROPTERA; PESTICIDE RESISTANCE; GHANA/ CARBAMATES

XB8705335

Vorley, W.t. (Sains Malaysia Univ., Minden, Pulau Pinang. Kajian Sains Biologi) . Factors contributing to the insecticide induced resurgence of brown planthopper, *Nilapanata lugens* (Stal), in Malaysian rice . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 248-249. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NILAPARVATA; INSECTICIDES; MALAYSIA/

ORGANOPHOSPHORUS COMPOUNDS; CARBAMATES; SURVIVAL

XB8705338

Fakalata, O.K.; Falaku, T.L. (Department of Agriculture, Tonga) . A study of the action threshold for controlling caterpillars (*Crociodomia binotalis*, *Spodoptera litura*, *Plutella xylostella*, *Heliothis armigera*) on head cabbages (*Brassica oleracea* var. KK Hybrid) du . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 254. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BRASSICA OLERACEA; SPODOPTERA; PLUTELLA; TONGA/ PESTICIDES; SPRAYS; TIMING; HELIOTHIS

XB8705340

Greathead, D.J. (Commonwealth Inst. of Biological Control, UK) . Optimising biological control resources for effective pest management in the tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 256-257. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; BIOLOGICAL CONTROL; INTEGRATED CONTROL; TROPICS

XB8705341

Ooi, P.A.C. (Institute Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor); Lim, G.S. Importance of natural control in rice [*Oryza sativa*] insect pest management in Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 258-261. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NILAPARVATA; CNAPHALOCROCIS; MALAYSIA/ NATURAL ENEMIES; BIOLOGICAL CONTROL

XB8705342

Hasse, V. (Philippine-German Cotton Project, San Fabian, Pangasinan (Phillippines)) . Introducing integrated plant protection to cotton farmers in the Philippines. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 262. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. GOSSYPIMUM; COLEOPTERA; HELIOTHIS; PHILIPPINES/ BILOGICAL CONTROL; CULTURAL CONTROL; INSECTICIDES; TRICHOGRAMMA

XB8705343

Lim, G.S. (Pertanian Malaysia Univ., Serdang, Selangor); Tajudin Hassan, Syed; Alwi, A. Enumerative sequential decision plans for pest management [Peninsular Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 263-265. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; NILAPARVATA; NATURAL DISTRIBUTION; INTEGRATED CONTROL; PENINSULAR MALAYSIA/ INFESTATION; SAMPLING

XB8705344

Waibel, H. (Thai-German Plant Protection Programme, Bangkok (Thailand)). Economics of integrated pest control in irrigated rice. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 266. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. IRRIGATED RICE; INTEGRATED CONTROL; PEST RESISTANCE; PHILIPPINES/ FARMERS; PESTICIDES; COSTS

XB8705346

Matteson, P.C. First rice IPC demonstration results from Sri Lanka: guidance for the National Implementation Programme. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 269. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. RICE; INTEGRATED CONTROL; SRI LANKA/ FARMERS; TRAINING

XB8705347

Bhalla, O.P. (Himalchal Pradesh Agricultural Univ., Solon (India)). Integrated pest management for seed cauliflower crop in India. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 270-271. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BRASSICA OLERACEA; INTEGRATED CONTROL; BREVICORYNE; INDIA/ SEED; ENTOMOPHTHORA; PIERIS; PSEUDOMONAS; ERWINIA

XB8705349

Webster, J.M. (Simon Fraser Univ., Vancouver (Canada). Centre for Pest Management). Insecticidal nematodes - an effective method of controlling some insect pests. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 275-277. \* Library,

Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; GALLERIA; MUSCA; NEMATODES; BIOLOGICAL CONTROL/ PEST INSECTS

XB8705350

Lim, G.S. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Unit Sains Perosak). Effect of *Bacillus thuringiensis* Berl. on the diamond-back moth parasitoid, *Apanteles plutellae* Kurdj. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 278-279. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BRASSICA RAPA; PLUTELLA; BACILLUS THURINGIENSIS; INSECTICIDES/ PARASITISM

XB8705351

Chua, T.H.; Halimah Othman (Malaya Univ., Kuala Lumpur. Jabatan Zoologi). Searching efficiency and aggregative response in *Cyrtorhinus lividipennis* (Rentev), a predator of rice brown planthopper. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 281-284. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; NILAPARVATA; HETEROPTERA; NATURALENEMIES; BIOLOGICAL CONTROL

XB8705353

Fediere, G. (Centre ORSTOM d'Adiopodoume, Abidjan (Ivory Coast). Laboratoire d'entomologie); Monsarrat, P.; Mariau, D. Biological control of *Casphalia setraneae* (Lepidoptera: Limacodidae) defoliator of oil palm [*Elaeis guineensis*] and coconut [*Cocos nucifera*] in Ivory Coast by a new Densovirus. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 287-288. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ELAEIS GUINEENSIS; COCOS NUCIFERA; LEPIDOPTERA; IVORY COAST/ INVERTEBRATE VIRUSES

XB8705354

Jayaramaiah, M. (Agricultural Sciences Univ., Bangalore (India). Department of Entomology). Muscardine diseases in scarabaeids on their utilization in the management of grub pests [in India]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 289-290. \* Library, Universiti Pertanian Malaysia.

[2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; BEAUVERIA; METARRHIZIUM; ASPERGILLUS; INDIA/ LARVAE; INSECTICIDES; CORDYCEPS

XB8705355

Mukerji, K.G. Srivastava, N. (Delhi Univ., India. Mycology Lab.) . Biological control of powdery mildews . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 291-293. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. TRIFOLIUM; ERYSI-PHE; SPHAEROTHECA; PODOSPHAERA/ PARASITISM; BIOLOGICAL CONTROL

XB8705364

Singh, D.s. (Koroniva Research Station, Nauserri (Fiji)) . Integrated control of nematodes in ginger [Zingiber officinale] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 310-311. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ZINGIBER OFFICINALE; MELOIDOGYNE; INTEGRATED CONTROL; FIJI/ FUSARIUM OXYSPORUM; BACILLUS; DIGITARIA DOCUMBENS

XB8705366

El-Ibrashy, M.T. (National Research Centre, Cairo (Egypt)) . Potential selectivity of Juveniods in IPM [Integrated pest management] strategies . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 313-314. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INSECTICIDES; JUVENILE HORMONES; INTEGRATED CONTROL

XB8705369

Rizvi, S.J.H.; Rizwi, V. (Rajendra Agricultural Univ., Pusa (India). Laboratory of Allelopathy and Natural Products) . Possible use of allelochemicals in integrated pest management: a novel approach . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 319. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ALTERNARIA; INTEGRATED CONTROL/ ALLELOPATHY

XB8705373

Singh, J. (Banaras Hindu Univ., Varanasi (India). Department of Entomology) . Pest status of mites in India

. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 324. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ACARINA; ERIOPHYIDAE; TARSONEMIDAE; INDIA

XB8705374

Mallikarjunappa, S.; Nageschandra, B.K. (Agricultural Sciences Univ., Bangalore (India). Department of Entomology) . Studies on efficacy of pesticides on the mite Eotetranychus hircoriae (McGregor) (Acari: Tetranychidae) on guava [Psidium guajava] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 325. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PSIDIUM GUAJAVA; TETRANYCHIDAE; PESTICIDES

XB8705396

M.M. Dalimin (Kebangsaan Malaysia Univ., Bangi, Selangor. Jabatan Zoologi) . Biological characteristics of pests . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 373-374. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; APHIS; CAPSICUM ANNUUM; FECUNDITY; PEST INSECTS/ REPRODUCTIVITY; DEVELOPMENTAL STAGES

XB8705397

Chong, H.W.; Khoo, K.C. (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan) . The efficacy and persistency of six insecticides against the thrips, Thrips palmi (Thysanoptera: Thripidae) infesting rock melon grown under glasshouse [in Peninsular Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 375-377. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; THRIPS (GENUS); INSECTICIDES; CUCUMIS MELO; PENINSULAR MALAYSIA/ EVALUATIONS; SPRAYS; GREENHOUSES

XB8705398

H.A. Kadir; N.W. Ahmad (Malaya Univ., Kuala Lumpur. (Malaysia). Jabatan Zoologi) . Effect of mixtures of Bacillus thuringiensis and pesticides on Plutella xylostella. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 379. \* Library, Universiti Pertanian Malaysia. [2. International Confer-

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**XB8705399**

Mohd Yusof Hussein; Tan, H.S.; M.Z. Rawi (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan tumbuhan). Biology, nutritional requirements and predation efficiency of *Menochilus sexmaculatus* Fabr. (Coleoptera: Coccinellidae). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 380-381. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; APHIS; PREDATORS; COLEOPTERA; BIOLOGICAL CONTROL

**XB8705400**

Sulaiman Hanapi (Pertanian Malaysia Univ., Kuching, Sarawak. Jabatan Perlindungan Tumbuhan); Askew, R.R. Factors affecting the composition of parasitoid communities of insect galls on *Salix* (Salicaceae). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 382. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. SALIX; HYMENOPTERA; LECIDOMYIIDAE/ PARASITES

**XB8705402**

Ooi, P.A.C. (Commonwealth Inst. of Biological Control, UK). Food plants of *Conopomorpha cramerella* Snellen. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 387-389. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; LEPIDOPTERA; NEPHELIUM LAP- PACEUM; NEPHELIUM MUTABILE/ BIOLOGI- CAL CONTROL; PEST INSECTS

**XB8705403**

Johney, K.V. (North Borneo Plantation Bhd., Sabah (Malaysia)); Teo, H.T.; Ng, K.Y. Evaluation of synthetic pyrethroids for the control of cocoa [*Theobroma cacao*] podborer *Conopomorpha cramerella* Suellen (Lepidoptera: Gracillaridae). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 390-394. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; LEPIDOPTERA; PEST INSECTS; SABAH/ PESTICIDES; SPRAYS; APPLICATION RATE

**XB8705404**

Juzu Hayati Arshad; Rohani Daud (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Biokimia dan Mikrobiologi). Toxic effect of lindane [insecticides] in mice. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 395-398. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INSECTI- CIDES; TOXICITY; GLYCOGEN; PROTEINS/ LIVER; KIDNEYS

**XB8705405**

Holt, J. (Imperial College, Ascot (UK)). Simulation analysis of brown planthopper [*Nilaparvata lugens*] on rice [*Oryza sativa*] [in Philippines]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 399. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; NILAPARVATA; POPU- LATION DYNAMICS; PHILIPPINES/ NONOPTIMIZING METHODS

**XB8705406**

Mohd Yusoff Hussein; Ahmad Fuad Muhamad (Per- tanian Malaysia Univ., Serdang, Selangor). Perception and management of pest problems by traditional small farmers [in Malaysia]. (En). 2nd International Confer- ence on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 400- 401. \* Library, Universiti Pertanian Malaysia. [2. Inter- national Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; IN- TEGRATED CONTROL; FARMERS; SMALL SCALE FARMING; MALAYSIA/ PEST CONTROL

**XB8705407**

Dutt, A.K.; Saha, J.L. Insect pest management of winter planted cotton in coastal rice fallows in West Bengal. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 402. \* Library, Universiti Per- tanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malay- sia), 17-20 Mar 1986]. GOSSYPIUM HIRSUTUM; EARIAS; WEST BENGAL/ VARIETIES; BIOLOGI- CAL CONTROL

**XB8705412**

Sastrodihardjo, S.; Anarno (Institut Teknologi Ban- dung, Indonesia. Department of Biology). Population model of coconut moth, *Arthona* (=Brachartona) ca- toxantha (Hps) [in Java]. (En). 2nd International Con- ference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 413. \* Library, Universiti Pertanian Malaysia. [2. Interna-

tional Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; LEPIDOPTERA; PEST INSECTS; POPULATION DYNAMICS; JAVA/ LARVAE

## H20: Penyakit tumbuhan

XB8605126

Mohd Idris Zainal Abidin; Mohamad Zakaria Hussin (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Pertanian) . Mass screening of pepper (*Piper nigrum* L.) seedling for resistance to *Phytophthora palmivora* . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 67-70. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; PHYTOPHTHORA; DISEASE RESISTANCE; SARAWAK/ VARIETIES; OPEN POLLINATION; EVALUATION; SEEDLINGS; SELECTION

XB8605131

Kueh, T.K. (Jabatan Pertanian, Kuching, Sarawak (Malaysia)) . Pests and diseases of black pepper [*Piper nigrum*] - a review . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 115-133. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; MELOIDOGYNE; PEST INSECTS; SARAWAK/ BIRD CONTROL; CHEMICAL CONTROL; TRAPS; COLLETOTRICHUM; CORTICIUM; PHYTOPHTHORA; PLANT DISEASE CONTROL

XB8605132

Bong, C.F.K.; Ibrahim Mohd Yusof (Universiti Pertanian Malaysia, Kuching, Sarawak) . Preliminary studies on the use of chlorine water to control foot rot disease of pepper [*Piper nigrum*] [in Sarawak] . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 135-138. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; PHYTOPHTHORA; CHLORINE; SARAWAK/ CHEMICAL CONTROL; CONCENTRATION; ROTS

XB8605133

Kueh, T.K. (Jabatan Pertanian, Kuching, Sarawak (Malaysia)); Chang, S.H. Effect of benomyl on the control of black berry disease of black pepper [*Piper nigrum*] [in Sarawak] . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of

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XB8605135

Kueh, T.K. (Jabatan Pertanian, Kuching, Sarawak (Malaysia)); Ahmed, M.I. Little sickle leaf disease of black pepper [*Piper nigrum*] . (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 155-167. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; CHLOROSIS; NECROSIS; SARAWAK/ VARIETIES; YIELDS; INFECTION; GRAFTING; ROOTS; FUSARIUM

XB8705157

Manjit Sidhu (Harrisons Malaysian Plantations Berhad, Sabah (Malaysia). Giram Estate). Some short-term investigations into the management of vascular streak dieback disease on young cocoa [*Theobroma cacao*] in Giram Estate, Sabah, Malaysia. (En). *Planter (Malaysia)*. ISSN 0126-575X. (Feb 1987). v. 63(731) p. 47-58. THEOBROMA CACAO; MYCOSES; PLANT NURSERIES; SABAH/ PLANT DISEASE MANIFESTATION; SEEDLINGS; MORTALITY; FUNGICIDES

XB8705159

Harbant Singh (Institut Teknologi MARA, Perlis (Malaysia)). Elementary studies on the control and epidemiology of sugarcane smut disease in Perlis (Malaysia). (En). *Ikhtisar (Malaysia)*. (1986). v. 1(1) p. 1-14. SUGAR CANE; SMUTS; FUNGICIDES; MALAYSIA/ INFECTION

XB8705176

Chee, K.H. (Institut Penyelidikan Getah Malaysia, Kuala Lumpur); Darmono, T.W.; Dos Santos, A.F.. Laboratory screening of fungicides using cellulose film and leaf discs against South American leaf blight pathogen, *Microcyclus ulei* [Hevea]. (En). *Journal of Natural Rubber Research*. ISSN 0127-7065. (Jun 1986). v. 1(2) p. 98-103. HEVEA; FUNGICIDES; BLIGHTS; SOUTH AMERICA/ CELLULOSES; LEAVES; PESTICIDE RESIDUES; BIOASSAY

XB8782070

Subramaniam, P.. [Technical progress in the control of blights on cocoa [*Theobroma cacao*]]. *Kemajuan teknik pengawalan penyakit Hawar Bebenang Putih pada koko*. (Malay). *Kemajuan Penyelidikan (Malaysia)*. (Sep 1986). v. 7(1) p. 14-17. THEOBROMA CACAO;

MYCOSES; PLANT DISEASE CONTROL; MALAYSIA/ FUNGICIDES; BLIGHTS

XB8782077

Nawi Che Yusof; Zainal Taib. [Survey methodology on VSD [vascular streak dieback] at PPPTR [Pusat Perkhidmatan Pertanian Tun Razak; Malaysia]]. Kaedah bancian VSD di PPPTR [Pusat Perkhidmatan Pertanian Tun Razak]. (Malay). *Kemajuan Penyelidikan (Malaysia)*. (Jan 1987). v. 8 p. 14-16. THEOBROMA CACAO; PLANT DISEASE MANIFESTATION; MALAYSIA/ SURVEYS; CLONES

XB8782078

Nawi Che Yusof. [Etiology of VSD diseases in cocoa [Theobroma cacao]]. Etiologi penyakit VSD pada koko. (Malay). *Kemajuan Penyelidikan (Malaysia)*. (Jan 1987). v. 8 p. 17-21. THEOBROMA CACAO; AETIOLOGY; MYCOSES; PLANT DISEASE MANIFESTATIONS

XB8782101

Diseases of ginger [Zingiber officinale] [in Sarawak]. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Mar 1987). (no. 264) p. 4. ZINGIBER OFFICINALE; PSEUDOMONAS; XANTHOMONAS; SARAWAK/ PHYLLOSTICTA; CORTICIUM

XB8705231

Jean Stamps, D. (Commonwealth Mycological Inst., Kew (UK)). Problems associated with the taxonomy of tropical Phytophthora species. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 5. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; IDENTIFICATION; TXONOMY; TROPICS

XB8705232

Tsao, P.H. (University of California, Riverside (USA)). Black pepper Phytophthora species: importance of proper identification to the study of their ecology and control [Piper nigrum]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 6-8. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PIPER NIGRUM; PHYTOPHTHORA; IDENTIFICATION; ROTS/ SPECIES

XB8705233

Khew, K.L. (Universiti Sains Malaysia, Penang. School of Biological Sciences). A comparative study of the protein and isozyme patterns of several species of Phytophthora. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts.

Serdang, Selangor (Malaysia). 1986. p. 9. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; IDENTIFICATION; ELECTROPHORESIS; PROTEINS/ SPECIES; ISOENZYMES

XB8705234

Tan, A.M. (Institut Penyelidikan Getah Malaysia, Kuala Lumpur). Recent investigations on Phytophthora disease of Hevea brasiliensis in Peninsular Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 10-11. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HEVEA BRASILIENSIS; PHYTOPHTHORA; ABSCISSION; PENINSULAR MALAYSIA/ SPECIES; CHEMICAL CONTROL

XB8705235

Margot, P.; Schwinn, F. J. (CIBA-Geigy Ltd., Basle (Switzerland) Agro Div.). Chemical control of Phytophthora in the Tropics - progress and prospects. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 12-14. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; CHEMICAL CONTROL; FUNGICES; TROPICS/ SPECIES; SPRAYS

XB8705236

Tey, C.C.; Musa, M.J.; Lee, B.S. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor). Sensitivity of Phytophthora palmivora from cocoa [Theobroma cacao] to selected fungicides. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 15-16. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; PHYTOPHTHORA; FUNGICIDES; PESTICIDES RESISTANCE/ PATHOGENS

XB8705237

Ko, W.H.; Nishijima, K.A. (University of Hawaii, Hilo, Hawaii (USA). Beaumont Agricultural Research Centre). Phytophthora capsici - Suppressive oil: its detection and mechanism of suppression. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 17-18. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; SOIL SUPPRESSIVENESS; INCUBATION/ GERMINA-

TION; BIOASSAY

XB8705238

Weste, G. (University of Melbourne, Australia). *Phytophthora cinnamomi* and its control. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 19-20. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; SOILS; FUNGICIDES; PATHOGENS/ SOIL TREATMENT; INFECTION; SOIL SUPPRESSIVENESS; DISEASE RESISTANCE

XB8705244

Shepard, M.; Ferrer, E.R. (International Rice Research Institute, Manila (Philippines)); Kenmore, P.E. Sequential sampling planthoppers and predators for insecticide treatment decisions in rice [*Oryza sativa*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 29-31. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; SAMPLING; NILAPARVATA; SOGATELLA/ PEST CONTROL; ANIMAL POPULATION; PREDATORS

XB8705258

Ho, Y.W.; Varghese, G. Pathogenic potential of *Fusarium oxysporum* f. sp. *elaeidis* from Africa on oil palm [*Elaeis guineensis*] seedlings from Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 68-69. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ELAEIS GUINEENSIS; FUSARIUM OXYSPORUM; PATHOGENICITY; MALAYSIA/ DRY SEASONS; WILTS

XB8705259

Flood, J. Resistance of oil palm (*Elaeis guineensis*) to *Fusarium wilt*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 70-72. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ELAEIS GUINEENSIS; FUSARIUM OXYSPORUM; DISEASE RESISTANCE; PATHOGENICITY/ TISSUE CULTURE

XB8705260

Brahmana, J.; Desimier de Chenon, R. (Pusat Penelitian Kelapa, Bandar Kuala, Sumatra (Indonesia)). Problems of *Phytiaceae* diseases on coconut palms [*Cocos nucifera*]

in North Sumatra Indonesia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 73. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. COCOS NUCIFERA; PHYTOPHTHORA; PATHOGENICITY; SUMATRA/ INFECTION; BUDS

XB8705261

Hamelink, J. Using leaf areas of "practically healthy" maize [*Zea mays*] plants to determine potential yield in crop loss assessment study. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 74. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ZEA MAYS; CROP LOSSES; YIELD FACTORS/ TRIALS; LIFE CYCLE

XB8705262

Mohd Shukor Nordin; S.A. Rahman (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Cameron Highlands, Pahang. MARDI Station); Nishio, T.; Mochizuki, T.; Kamimura, S. Breeding tomato for resistance against late blight (*Phytophthora infestans*) in Cameron Highlands [Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 75-80. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. LYCOPERSICON ESCULENTUM; PHYTOPHTHORA; DISEASE RESISTANCE; BLIGHTS/ VARIETIES

XB8705263

Nuntapunt, M.; Surin, P. (Chiangmai Field Crop Research Center, Thailand). Evaluation of rate-reducing rust resistance and tolerance in advanced soybean lines [in Thailand]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 81. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. GLYCINE MAX; RUSTS; WET SEASON; THAILAND/ LOSSES; FUNGICIDES; VARIETIES

XB8705269

Hawkworth, D.L. (Commonwealth Agricultural Bureau, Kew (UK). Commonwealth Mycological Institute). The significance of algae and lichens in tropical plant protection. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 102-104. \* Library, Universiti Pertanian Malaysia. [2. Interna-

tional Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ALGAE; LICHENES; LEAVES; BARK/ TROPICS

**XB8705270**

Ang, B.B.; Lim, T.K. (Harrisons Malaysian Plantation Berhad, Kajang, Selangor. Prang Besar Research Station) . Etiology of a sudden dieback of cocoa [*Theobroma cacao*] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 105-106. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; BOTRYODIPLODIA; STRESS/ INFECTION; DROUGHT; STEMS

**XB8705271**

Gerlach, W.W.P. (German Agency for Technical Cooperation, Apia (Samoa). Samoan German Crop Protection Project) . New records and notes on Peronosporales in Western Samoa . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 107-108. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; PSEUDOPERONOSPORA; PYTHIUM; SAMOA/ HOSTS; SPECIES; PATHOGENICITY

**XB8705272**

Kato, H. (National Agriculture Research Centre, Tsukuba (Japan)); Safeeulla, K.M. Blast disease of bamboo [*Bambusa arundinacea*; India] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 109-110. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BAMBUSA ARUNDINACEA; PYRICULARIA; ISOENZYMES; INDIA/ SPECIES; ELECTROPHORESIS; JAPAN; FINGER MILLET

**XB8705273**

Kueh, T.K. (Jabatan Pertanian, Kuching, Sarawak (Malaysia)); Kuthubutheen, A.K. Foot rot disease of black pepper [*Piper nigrum*] in Sarawak . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 111. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PIPER NIGRUM; PHYTOPHTHORA; WET SEASONS; SARAWAK/ INFECTION; DISEASE RESISTANCE; ROTS

**XB8705274**

Bong, C.F. (Universiti Pertanian Malaysia, Kuching,

Sarawak. Jabatan Perlindungan Tumbuhan) . Citrus foot rot in Sarawak . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 112. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CITRUS FRUITS; PHYTOPHTHORA; ROTS; SARAWAK/ INFECTION; SPECIES; CHEMICAL CONTROL

**XB8705275**

I. Din; Baharuddin Salleh (Sains Malaysia Univ., Pulau Pinang. Pusat Pengajian Sains Kajihayat) . Seed-borne pathogenic *Fusaria* on rice, maize and mung bean [in Peninsular Malaysia] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 113. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. RICE; ZEA MAYS; FUSARIUM; PENINSULAR MALAYSIA/ SPECIES; MUNG BEANS; SEED

**XB8705296**

Norani Abdul Samad (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Biokimia dan Mikrobiologi) . Identification of viruses infecting chilli, *Capsicum annum* L. in Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 152-153. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAPSICUM ANNUUM; VIROSES; MICROSCOPY; MALAYSIA/ IDENTIFICATION

**XB8705297**

Yap, T.H.; Ng, K.Y. (Bayer Sdn. Bhd., Kuala Lumpur (Malaysia)) . Influence of pesticides on the incidence of virus disease and leaf curl symptoms in chilli (*Capsicum annum*) in Malaysia . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 154. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAPSICUM ANNUUM; APHIS; THRIPS (GENUS); MALAYSIA/ INSECTICIDES; SPRAYS; POLYPHAGOTARSONEMUS; VIROSES

**XB8705298**

Chen, Y.M. (Jabatan Pertanian, Kuala Lumpur (Malaysia). Cawangan Perlindungan Tanaman); Lim, G.S. Tungro detection in the Tanjung Karang [Peninsular Malaysia] paddy irrigation scheme . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 155-158. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection



in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; VIROSES; IDENTIFICATION; NEPHOTETTIX; PENINSULAR MALAYSIA/ INFECTION; SURVEYS; PLANT VIRUSES

XB8705299

Mochida, O.; Valencia, S.L.; Basilio, R.P. (International Rice Research Inst., Manila (Philippines)). Occurrence of rice tungro virus disease (RTVD) and its prevention in the Philippines. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 159-160. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; NEPHOTETTIX; INSECTICIDES; VIROSES; PHILIPPINES/ COST ANALYSIS; PLANT VIRUSES

XB8705301

Hiryati Abdullah (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Bacteriocin production by Malaysian isolates of *Pseudomonas solanacearum*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 163-164. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PSEUDOMONAS; PROTEIN SYNTHESIS; MALAYSIA/ ISOLATION; HOSTS

XB8705316

Lim, T.K. (Pertanian Malaysia Univ., Serdang, Selangor); Hamm, R.T.; Rita Mohamad. Persistency and volatile behaviour of selected chemicals in treated soil against three basidiomycetons root disease pathogens [of *Hevea brasiliensis*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 205-206. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HEVEA BRASILIENSIS; PORIA; FUNGICIDES/ SOIL TREATMENT; BIOASSAY

XB8705317

Hamm, R.T. (BASF, Limbugehorf (German Federal Republic)); Lim, T.K.; Rita Mohamad. Behaviour of Tridemorph in rubber plants [*Hevea brasiliensis*] and soils. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 207. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HEVEA BRASILIENSIS; FUNGICIDES; OIDIUM; CORTICIUM/ GANODERMA; TRANSLOCATION; RESIDUES

XB8705318

Knights, I.K. (Chesterford Park Research Station, Safiron Walden, Essex (UK)). The use of fungicide prochloraz to control tropical plant diseases. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 208-209. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PSEUDOCERCOSPORELLA; FUNGICIDES; COLLETOTRICHUM; TROPICS/ POSTHARVEST LOSSES; FUSARIUM; VERTICILLIUM; CERATOCYSTIS; PENICILLIUM; ALTERNARIA; TRICHODERMA; DIPLODIA; MYCOSPHAERELLA; CORTICIUM; GIBBERELLA FUJIKUROI; HELMINTHOSPORI

XB8705319

Arulpragasam, P.V. (Tea Research Inst. of Sri Lanka, Talawakelle). Recent developments in the chemical control of blister blight leaf diseases of tea [*Camellia sinensis*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 210-211. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAMELLIA SINENSIS; EXOBASIDIUM; FUNGICIDES; SRI LANKA/ SPRAYS; PLANTATIONS

XB8705320

Masaba, D.M. (Coffee Research Inst., Kenya). Evaluation of new fungicides for the control of coffee [*Coffea arabica*] berry disease in Kenya [*Colletotrichum coffeanum*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 212-215. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. COFFEA ARABICA; COLLETOTRICHUM; FUNGICIDES; KENYA/ FRUIT; EVALUATION; RAIN; SPRAYS; YIELDS

XB8705321

Knutti, H. (Sandoz Ltd., Switzerland). The control of diseases caused by Peronosporales with oxadixyl in the tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 216-218. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PHYTOPHTHORA; PERONOSPORA; FUNGICIDES; TROPICS/ SCLEROSPORA; PYTHIUM

XB8705322

Sinha, A.K.; Sengupta, T.K. (Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal (India)). Use of

unconventional chemicals in the control of blast of rice [*Oryza sativa*] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 219-221. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. **ORYZA SATIVA; HELMINTHOSPORIUM; BLIGHTS; PHYTOALEXINS/ CHEMICAL CONTROL; DISEASE RESISTANCE**

**XB8705323**

Mappes, D.; Krone, W.; Van de Weerd, C. (Agricultural Research Station of BASF Aktiengesellschaft, Limbuogerhof (German Federal Republic) . Trial results with tridemorph for the control of powdery mildew on tropical crops . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 222. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; **OIDIUM; MANGIFERA INDICA; CARICA PAPAYA; NEPHELIUM LAPPACEAU/ FUNGICIDES**

**XB8705332**

Prior, C. (Finnart House, Storrington, West Sussex (UK)) . Application methods for systemic fungicides to control vascular-streak dieback of cocoa [*Theobroma cacao*] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 242-243. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. **THEOBROMA CACAO; FUNGICIDES; ? ONCOBASIDIUM THEOBROMAE; FORMULATIONS/ SYSTEMIC ACTION; APPLICATION METHOD**

**XB8705336**

Thind, T.S.; Jhooty, J.S. (Punjab Agricultural Univ., Ludhiana (India)) . Latrogenic effect of copper oxychloride sprays on *Alternaria* blight of some crucifers [in India] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 250-252. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; **CRUCIFERAE; ALTERNARIA; FUNGICIDES; INDIA/ SPRAYS; RESIDUES; RESISTANCE TO INJURIOUS FACTORS**

**XB8705337**

Pone, S.P. (Department of Agriculture, Tonga) . The effect of oil rates on fungicide control of black leaf streak of bananas in Tonga . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986.

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**XB8705348**

Sundheim, L. (Norwegian Plant Protection Inst., Norway. Division of Plant Pathology) . Hyperparasites in biological control . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 272-274. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. **CUCUMIS SATIVUS; SPHAEROTHECA; ERYSI-PHE; TRIFOLIUM PRATENSE/ PARASITISM; BIOLOGICAL CONTROL**

**XB8705352**

Mukhopadhyay, A.N.; Chandra, I. (G.B. Pant University of Agriculture and Technology, Pantnagar (India)) . Biocontrol of sugar beet and tobacco damping-off by *Trichoderma harzianum* . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 285-286. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. **BETA VULGARIS; NICOTIANA; PYTHIUM; TRICHODERMA/ BIOLOGICAL CONTROL; ANTAGONISM**

**XB8705356**

Matthews, G.A. (Imperial College at Silwood Park, Ascott, Berkshire (UK). Overseas Spraying Machinery Centre) . Pesticides application in IPM [integrated pest management] . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 294-295. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; **PESTICIDES; TECHNOLOGY/ SPRAYING; APPLICATION RATE**

**XB8705358**

Wilkins, R.M. (Newcastle upon Tyne Univ., UK. Department of Agricultural Biology) . Controlled delivery systems for plant protection in tropical flooded rice . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 298. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. **FLOODED RICE; PHEROMONES; PESTICIDES; TECHNOLOGY/ FORMULATIONS**

XB8705361

O'Hanlon, G.J. (Incitec Ltd., Morningside (Australia)). Evaluation of controlled release formulations of agrochemicals in the tropics . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p.303-305. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; INSECTICIDES; SOILS; RESIDUES/ EVALUATIONS; GRANULES

XB8705363

Heong, K.L. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Makmal Penyelidikan Pusat); H. Yahya; Tee, S.P. Pest control decision making - a case study of tobacco [*Nicotiana tabacum*] farmers in Bachok (Kelantan) Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 308-309. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. NICOTIANA TABACUM; FARMERS; PEST CONTROL; MALAYSIA/ PRODUCTION COSTS; INSECTICIDES; FORMULATIONS; SAFETY

XB8705368

Agarwal, M.L. (R.B.S. College, Agra (India). Department of Botany). Phytohormones antagonising the nematocidal phytotoxic effects in *Abelmoscenus esculentus* infected with root-knot nematode *Meloidogyne incognita*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 316-318. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HIBISCUS ESCULENTUS; MELOIDOGYNE; NEMATOCIDES; PHYTOTOXICITY/ PLANT GROWTH SUBSTANCES; ENZYMIC ACTIVITY

XB8705376

Radziah Nom Zainuddin (Institut Penyelidikan Getah Malaysia, Kuala Lumpur); Mohammed Omar. Cultural characteris of isolates of *Colletotrichum gloeosporioides* [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 328-330. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; COLLETOTRICHUM; PATHOGENICITY; MALAYSIA/ ABSCISSION; TESTING.

XB8705377

Lee, S.S. (Pertanian Malaysia Univ., Serdang, Selangor. Fakulti Perhutanan). Discoloration of the heart-

wood of *Acacia mangium* - a preliminary report [Peninsular Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 331-332. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ACACIA MANGIUM; CERATOCYSTIS; TRICHODERMA; PENINSULAR MALAYSIA

XB8705378

Sariah Meon; Varghese, G. (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Some aspects of the aetiology and control of dieback of durian [*Durio Zibethinus*] seedlings in the nursery. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 335-336. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. DURIO ZIBETHINUS; PHYTOPHTHORA; PYTHIUM; PENINSULAR MALAYSIA/ PATHOGENICITY; FUNGICIDES

XB8705379

Varghese, G.; Zainal Abidin Mior Ahmad (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Some aspects of the biology of *Oncobasidium theobromae* casual pathogen of vascular streak dieback (VSD) of cocoa [*Theobroma cacao*] [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 337-338. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. THEOBROMA CACAO; ? ONCOBASIDIUM THEOBROMAE; MALAYSIA/ INFECTIONS

XB8705380

Ng, C.C.M.; Lim, T.K. (Pertanian Malaysia Univ., Serdang, Selangor); Ng, K.Y. Studies of a leaf blight disease of durian (*Durio zibethinus* Murr.) and its control [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 339-341. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. DURIO ZIBETHINUS; RHIZOCTONIA; FUNGICIDES; MALAYSIA/ HOSTS

XB8705381

Chin, C.L.; Lim, T.K. (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Studies on a dieback disease of guava seedlings (*Psidium guajava*) and its control . (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986.

p. 342-343. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PSIDIUM GUAJAVA; PHYTOPHTHORA; TRICHODERMA; FUNGICIDES/ PATHOGENICITY

XB8705382

Etebarian, H.R. (Abourayhah Inst. of Tehran Univ., Iran). Effect of temperature on varietal reaction to *Puccinia hordei* Orth. and its development in barley. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 344-345. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BARLEY; PUCCINIA; AIR TEMPERATURE/ VARIETIES; DISEASE RESISTANCE

XB8705383

Tan, Y.H.; Abdul Rahman Razak (Pertanian Malaysia Univ., Serdang, Selangor). Microbial contamination problems of some common edible mushrooms cultivated in Malaysia [*Volvariella volvaceae*; *Pleurotus sajor-caju*; *Lentinus edodes*; *Agaricus biosporus*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 346-347. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PLEUTORUS; VOLVARIELLA; LENTINUS; MALAYSIA/ AGARICUS; TRICHODERMA; ASPERGILLUS; PSEUDOMONAS; FUNGICIDES

XB8705384

Hiryati Abdullah (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Bacterial wilt, caused by *Pseudomonas solanacearum*, in Sarawak. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 348-349. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PSEUDOMONAS; LYCOPERSICON ESCULENTUM; CAPSICUM ANNUM; SARAWAK/ SOLANUM MELONGENA; ARACHIS HYPOGAEA; PHASEOLUS VULGARIS

XB8705385

Hiryati Abdullah (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Strains of *Pseudomonas solanacearum*, from legume, differing in pathogenicity. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 350-351. \* Library, Universiti Pertanian Malaysia. [2. International

Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ARACHIS HYPOGAEA; PSEUDOMONAS; PHASEOLUS VULGARIS; PSOPHOCARPUS TETRAGONOLOBUS/ PATHOGENICITY; ZINGIBER OFFICINALE; NICOTIANA TABACUM

XB8705386

Kamaruzaman Sijam (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Studies on the properties of the virulent factors of *Erwinia chrysanthemi* pv *zea*. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 352. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ZEA MAYS; ERWINIA; POLYSACCHARIDES; MALAYSIA/ PATHOGENICITY; BIOASSAY

XB8705387

Mohamad Roff Mohd Noor; Zakaria Sidek (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Host range and some properties of a virus causing ringspot on *Arauda* hybrid orchid [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 354. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ORNAMENTAL ORCHIDS; VIROSES; MALAYSIA/ MICROSCOPE; HOSTS

XB8705388

Norani Abdul Samad (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Biokimia dan Mikrobiologi). Diagnosis of orchid diseases caused by *Cymbidium mosaic virus* (CyMV) and *Odontoglossum ringspot virus* (ORSV). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 356-357. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORNAMENTAL ORCHIDS; PLANT VIRUSES; MALAYSIA/ SPECIES; PLANT DISEASE MANIFESTATIONS

XB8705389

Cheah, U.B.; Lee, B.S.; Vijayasegaran (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor). Metalaxyl residues in water-cultured brinjals [*Solanum melongena* L.] infected with *Pythium* root rot. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 358-359. \* Library, Universiti Pertanian Malaysia. [2. International Confer-

ence on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. SOLANUM MELONGENA; PYTHIUM; FUNGICIDES; RESIDUES/ HYDROPONICS; APPLICATION RATE; CHROMATOGRAPHY

**XB8705390**

Sariah Meon (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Behaviour of a benomyl resistant isolate of *Colletotrichum capsici* [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 360-361. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAPSICUM ANNUUM; COLLETOTRICHUM; FUNGICIDES/ SYSTEMIC ACTION; PESTICIDE RESISTANCE

**XB8705391**

Mohd Shukor Nordin, S.A. Rahman; Ahmad Abdullah (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Tanah Rata, Pahang). Research on chemical control against tomato [*Lycopersicon esculentum*] late blight in Cameron Highlands [Peninsular Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 362-366. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. LYCOPERSICON ESCULENTUM; PHYTOPHTHORA; FUNGICIDES; PENINSULAR MALAYSIA/ EVALUATION; SPRAYING

**XB8705392**

Lim, T.K.; Muhammad Harun, Raja; Sariah Meon (Pertanian Malaysia Univ., Serdang, Selangor. Fakulti Pertanian). Integrated cultural and chemical control of bacterial wilt of muskmelon [*Cucumis melon*] grown in hydroponic culture [Peninsular Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 367-368. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CUCUMIS MELON; ERWINIA; FUNGICIDES; PENINSULAR MALAYSIA/ HYDROPONICS; CROP LOSSES; PRUNING; MAINTENANCE DRESSINGS

**XB8705393**

Wackers, F.; Sariah Meon (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Perlindungan Tumbuhan). Antagonistic effect of *Trichoderma* species against *Sclerotium rolfsii* Sacc. on chillies [*Capsicum annum*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Ser-

dang, Selangor (Malaysia). 1986. p. 369-370. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. CAPSICUM ANNUUM; TRICHODERMA; SCLEROTIUM/ ANTAGONISM

**XB8705395**

Marjuddin, K.; Guyer, R. (CIBA-GEIGY Ltd., Jakarta (Indonesia). Agricultural Div.). Control of sheath rot and sheath blight on transplanted rice [*Oryza sativa*] in Indonesia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 372. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; RHIZOCTONIA; FUNGICIDES; INDONESIA/ SYSTEMIC ACTION; SPRAYS; BLIGHTS; ROTS

**XB8705394**

Guyer, R.; Marjudin, K. (CIBA-GEIGY Ltd., Jakarta (Indonesia). Agricultural Div.). Effective control of rice blast in the Tropics with FONGORENE [fungicides]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 371. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PYRICULARIA ORYZAE; FUNGICIDES/ SYSTEMIC ACTION; SPRAYS; LEAVES; TIMING

**XB8705401**

Loke, W.H. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor). Host-finding behaviour of *Apantelels plutellae* Kurdj., a major parasitoid attacking the diamond-back moth, *Plutella xylostella* (L.). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 383-386. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. BRASSICA RAPA; PLUTELLA; INTEGRATED CONTROL; MALAYSIA/ PARASITES; LARVAE

## **H50: Pelbagai penyakit tumbuhan**

**XB8705158**

Soh, A.C. (Applied Agricultural Research Sdn. Bhd., Sungai Buloh, Selangor (Malaysia). Agronomy Research Unit). Abnormal oil palm [*Elaeis guineensis*] clones. Possible causes and implications: further discussions. (En). *Planter (Malaysia)*. ISSN 0126-575X. (Feb 1987). v. 63(731) p. 59-65. ELAEIS GUINEENSIS; GENETIC DISORDERS; TISSUE CULTURE/ CLONES

**H60: Rumpai dan  
pengawalan rumpai**

XB8705325

Peoples, T.R.; Wang, T.; Fine, R.R. (American Cyanamid Co., Princeton, New Jersey (USA)). AC 263, 499: a new broad-spectrum herbicide for use in soybeans [*Glycine max*] and other legumes. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 224. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. GLYCINE MAX; HERBICIDES; PHASEOLUS; MEDICAGO SATIVA

XB8705324

Lee, S.A. (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Jalan Kebun, Selangor). Effects of glufosinate-ammonium, glyphosate and imazapyr on the control of *Imperata cylindrica* (L.) Beauv. [Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 223. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; IMPERATA; HERBICIDES; WEED CONTROL; MALAYSIA

XB8705326

Teng, Y.T. (Monsanto Malaysia, Petaling Jaya, Selangor); Teh, K.H.; Chew, S.T. Glyphosate rate-carrier volume interaction foralang (*Imperata cylindrica* L. Beauv.) control in wet season [Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 225-226. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; IMPERATA; HERBICIDES/ TRIALS; SPRAYS; APPLICATION RATES

XB8705327

Toh, K.S.; Lim, J.K. (I.C.I. Agriculture Sdn. Bhd., Malaysia). Assault - A promising herbicide in Malaysian plantations [*Elaeis guineensis*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 227-232. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ELAEIS GUINEENSIS; HERBICIDES; HEVEA BRASILIENSIS; MALAYSIA/ TRIALS; PLANTATIONS; SPRAYS; IMPERATA; FOMULATIONS.

XB8705328

Ho, N.-K (Lembaga Kemajuan Pertanian Muda, Kedah (Malaysia)). Comparison of weed flora and farmers'

weed control practices in the transplanted and direct-seeded rice [*Oryza sativa*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 233-234. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; TRANSPLANTING; BROADCASTING; MALAYSIA/ WEEDS; WEED CONTROL; FARMERS; HERBICIDES; WEEDING

XB8705329

Purusotman, R. (Hoechst Malaysian Sdn. Bhd., Kuala Lumpur (Malaysia)); Langelueddeke, P. Basta (Hoechst 39866) - properties and preliminary results with low rates and volume spraying in mixed weed conditions. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 235-237. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; HERBICIDES; IMPERATA; PASPALUM CONJUGATUM; PUEURARIA PHASEOLOIDES/ TRANSLOCATION; LEAVES; ECHINOCHLOA FRUMENTACEA; SORGHUM HALEPENSE; IPOMOEA; SPRAYS

XB8705330

Sabudin Mohd Ali; Abu Bakar Baba (Dow Chemical Pacific Ltd., Kuala Lumpur (Malaysia)). Fluroxypyr: a new herbicide for broadleaf weed control in Malaysia plantations. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 238-239. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; MIKANIA; HERBICIDES; WEED CONTROL; MALAYSIA/ PLANTATIONS SPRAYS

XB8705331

Embi Yusoff; Supaad Md Amin; Chong, A.W.; Azmi Man (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Bahagian Penyelidikan Padi). Status and research directions of rice [*Oryza sativa*] weed management in Peninsular Malaysia. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 240-241. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; HERBICIDES; ECHINOCHLOA FRUMENTACEA; PENINSULAR MALAYSIA/ TRANSPLANTING; BROADCASTING; WEED CONTROL

XB8705365

Rajan, A. (Pertanian Malaysia Univ., Serdang, Selangor. Jabatan Agronomi dan Kulturakebunan). Allelo-

pathic activity in lalang (*Imperata cylindrica* L. Beauv.). (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 312. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; IMPERATA; PHYTOTOXICITY; CHROMATOGRAPHY/ SOILS

XB8705409

Sen, D.N.; Mishra, R.K. (Jodhpur Univ., India. Botany Dept.). Management of weeds in crop fields of semi-arid tracts in Indian arid zone. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 404-406. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. PENNISETUM TYPHOIDES; SESAMUM INDICUM; CYPERUS ROTUNDUS; INDIA/ WEED CONTROL; INTERCROPPING

XB8705410

Norehan Harun; Ismail Sahid; Che Rosli Che Mat (Kebangsaan Malaysia Univ., Bangi, Selangor). Absorption of paraquat by soybean seeds. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 407-409. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. GLYCINE MAX; SEED; HERBICIDES/ TEMPERATURE; WATER UPTAKE

XB8705411

Ismail Sahid; Mohd Safawat Hossain (Kebangsaan Malaysia Univ., Bangi, Selangor). The germination of *Echinochloa crusgalli* seeds. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 410-412. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; ECHINOCHLOA FRUMENTACEA; SEEDS; PENINSULAR MALAYSIA/ GERMINABILITY; GREENHOUSE; WEED CONTROL; DEPTH

XB8705413

Wan, C.K. (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Agronomi dan Kulturakebunan). Development of pathenocarpic fruits in oilpalm (*Elaeis guineensis* Jacq.) due to application of herbicides [in Malaysia]. *Planter* (Malaysia). ISSN 0126-575X. (Mar 1987). v. 63(732) p. 90-95. ELAEIS GUINEENSIS; FRUIT; HERBICIDES; MALAYSIA/ YIELDS; LIPID CONTENT; SIZE

## J: TEKNOLOGI LEPAS TUAI

### J11: Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan

XB8605123

Mohammad Mohd Lassim (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Agronomi dan Kulturakebunan). Pepper seed quality and storage [*Piper nigrum*]. (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (*Piper nigrum* L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 43-45. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; QUALITY; SEED LONGEVITY; VIABILITY

XB8705230

Teng, P.S. (University of Minnesota, St. Paul (USA). Department of Plant Pathology). Crop loss appraisal in the Tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 3-4. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; CROP LOSSES; PEST CONTROL; MODELS; TROPICS/ YIELDS

### J12: Pengawasan, pengangkutan, storan dan perlindungan hasil hutan

XB8705148

Wong, C.N. (Institut Penyelidikan Perhutanan, Kepong, Selangor (Malaysia)). Studies on Malaysian timber for plywood manufacture: preliminary trial on *Derum* (*Cratoxylon formosan*). (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 237-248. PLYWOOD; TIMBER TREES; VENEERS; MALAYSIA/ CHEMICOPHYSICAL PROPERTIES; PROCESSING

XB8705149

Singh, K.G. (ASEAN Plant Quarantine Centre and Training Institute, Serdang, Selangor (Malaysia)). *Fomes lividus* (Kalchor) attacking wood. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 249-251. HARDWOOD; FOMES; BUILDINGS; MALAYSIA/ INFECTION

XB8705152

Peh, T.B.; Khoo, K.C. (Institut Penyelidikan Perhutanan, Kepong, Selangor (Malaysia)). Timber properties of *Acacia mangium*, *Gmelina arborea*, *Paraserianthes falcataria* and their utilization aspects. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 285-303. ACACIA MANGIUM;

GMELINA ARBOREA; USES; MALAYSIA/  
CHEMICOPHYSICAL PROPERTIES; PLYWOOD;  
PARTICLE BOARDS; FURNITURE MAKING

**J15:** Pengawasan, pengangkutan,  
storan dan perlindungan hasil  
pertanian yang bukan  
berbentuk makanan atau bahan  
makanan ternakan

XB8705163

Lim, C.L.; Ong, E.L.. Importance of a processability indicator for natural rubber. (En). *Planters' Bulletin - Rubber Research Inst. of Malaysia* (Malaysia). ISSN 0032-096X. (Jun 1986). (no. 187) p. 57-60. RUBBER; CHEMICOPHYSICAL PROPERTIES; PROCESSING

**K:** PERHUTANAN

**K10:** Pengeluaran perhutanan

XB8705146

Putz, F.E. (University of Florida, Gainesville (USA). Department of Botany); Lee, H.S. (Forest Dept., Kuching, Sarawak (Malaysia)); Goh, R.. Effects of post-felling silvicultural treatments on woody vines in Sarawak. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 214-226. \*; CLIMBERS; SILVICULTURAL SYSTEMS; FELLING; SARAWAK/ DIPTEROCARPACEAE

XB8705150

Kamis Awang; Mohd Amran Mohd Ghazali (Universiti Pertanian Malaysia, Serdang, Selangor. Fakulti Perhutanan). Initial performance of *Gmelina arborea* Roxb., and *Acacia mangium* Willd. under plantation conditions. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(4) p. 255-262. GMELINA ARBOREA; ACACIA MANGIUM; FOREST PLANTATIONS; PENINSULAR MALAYSIA/ SOIL TYPES; MEASUREMENT; GROWTH

XB8705151

Chee, T.Y. (Jabatan Perhutanan, Kuala Lumpur (Malaysia)); Ridwan S. Fast-growing species of trees suitable for urban roadside and shade planting. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(4) p. 263-284. \*; LANDSCAPE GARDENING; SHADE TREES; MALAYSIA/ SPECIES

XB8705153

Brigden, L.G.; Craciun, G.C.J. (CSIRO, Australia, Division of Forest Research). *Pinus cocarpa* - provenance testing in the Northern Territory, Australia and a comparison with *P. caribaea*. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 304-311. PINUS CARIBAEA; FOREST PLANTA-

TIONS; NORTHERN TERRITORY/ SPECIES;  
GROWTH; TRIALS

XB8705154

Brigden, L.G. (CSIRO, Australia. Division of Forest Research); Williams, E.R. An assessment of a 5.5 year old *Pinus caribaea* var. *hondurensis* progeny trial in the Northern Territory of Australia. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 312-321. PINUS CARIBAEA; STEMS; QUALITY; NORTHERN TERRITORY/ TRIALS; GROWTH; SOIL TYPES

XB8705155

Tan, K.C. (Sabah Softwoods Sdn. Bhd., Tawau (Malaysia)). The response of *Paraserianthes falcataria* to row thinning. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 322-334. \*; TIMBER TREES; FOREST PLANTATIONS; TRAINING; SABAH/ SPECIES; GROWTH; PULPWOOD

XB8705156

Appanah, S. (Institut Penyelidikan Perhutanan, Kepong, Selangor (Malaysia)); Putz, F.E.. Climber abundance in virgin dipterocarp forest and the effect of pre-felling climber cutting on logging damage [Peninsular Malaysia]. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 335-342. \*; CLIMBERS; COPPING; DIPTEROCARPACEAE; PENINSULAR MALAYSIA/ CUTTING; SILVICULTURE SYSTEMS

**K50:** Pemprosesan hasil hutan

XB8705148

Wong, C.N. (Institut Penyelidikan Perhutanan, Kepong, Selangor (Malaysia)). Studies on Malaysian timber for plywood manufacture: preliminary trial on *Derum* (*Cratoxylon formosan*). (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 237-248. PLYWOOD; TIMBER TREES; VENEERS; MALAYSIA/ CHEMICOPHYSICAL PROPERTIES; PROCESSING

XB8705152

Peh, T.B.; Khoo, K.C. (Institut Penyelidikan Perhutanan, Kepong, Selangor (Malaysia)). Timber properties of *Acacia mangium*, *Gmelina arborea*, *Paraserianthes falcataria* and their utilization aspects. (En). *Malaysian Forester* (Malaysia). ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 285-303. ACACIA MANGIUM; GMELINA ARBOREA; USES; MALAYSIA/ CHEMICOPHYSICAL PROPERTIES; PLYWOOD; PARTICLE BOARDS; FURNITURE MAKING

XB8705202

Evelyn Hong. Natives of Sarawak : survival in Borneo's vanishing forest. (En). ISBN 967-9966-03-8. Pulau Pinang (Malaysia). Institut Masyarakat. 1987.



259 p.. Bibliography p. 240-248. SARAWAK; LAND DEVELOPMENT/ AGRICULTURE; FOREST ECOLOGY; FORESTRY

**L: SAINS PETERNAKAN,  
PENGELUARAN  
DAN PERLINDUNGAN**

**L01: Peternakan**

XB8782058

Tajuddin Ismail (Institut Penyelidikan Getah Malaysia, Kuala Lumpur). [Sheep industry development [in Malaysia]]. Pemesatan ternakan biri-biri. (Malay). *Getah Asli (Malaysia)*. ISSN 0126-5237. (Sep 1986). p. 8-13. SHEEP; FARMING SYSTEMS; MALAYSIA/ SMALL SCALE FARMING

XB8782095

Soh, E.L. Sericulture: silken perk to Sarawak's growth. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (16 Apr 1987). p. 57-58. \*; SILK; MORUS ALBA; SERICULTURE; SARAWAK

XB8705371

Abu Bakar Atim (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Kuala Lumpur). Production of honey by Apis cerana from rubber [Hevea brasiliensis] nectar [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 321. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. APIS; HEVEA BRASILIENSIS; NECTAR; MALAYSIA

**L10: Genetik dan  
pembiaikbaikan ternakan**

XB8782071

Kijima; Patimah Ismail; Siti Khalijah Daud. [Identification of catfish using electrophoresis [in Malaysia]]. Mengenal ikan keli dengan kaedah elektroforesis. (Malay). *Unipertama (Malaysia)*. ISSN 0126-9496. (Mar 1987). v. 9(3) p. 3, 12. MARINE CATFISH; ELECTROPHORESIS; IDENTIFICATION; MALAYSIA/ GENES

**L20: Ekologi haiwan**

XB8705207

Saberi Othman . Ecology introduction. *Pengenalan Ekologi*. (Malay). Kuala Lumpur. Dewan Bahasa dan Pustaka. 1986. 100 p. Bibliography p. 100. \*; ECOSYSTEMS; POLLUTION

**L70: Sains veterinar dan kesihatan**

XB8705113

Consumers' Association of Penang, Pulau Pinang (Malaysia) Chloroform sale and hazards : a Malaysian study. (En). CAP report (Malaysia). no. 9. Pulau Pinang (Malaysia). Consumers' Association of Penang. 1986. 55 p. Bibliography p. 54-55. Appendices. \*; DRUGS; MEDICAL SCIENCES; TOXICITY

XB8782092

Universiti Pertanian Malaysia, Serdang, Selangor. Embryo transfer technique [in goats; Peninsular Malaysia]. Teknik pemindahan embrio. (Malay). *Unipertama (Malaysia)*. ISSN 0126-9496. (Apr 1987). v. 9(4) p. 3. GOATS; EMBRYO; SELECTION; PENINSULAR MALAYSIA/ OVULATION; TECHNOLOGY

**M: PERIKANAN DAN AKUAKULTUR**

**M40: Ekologi akuatik**

XB8705207

Saberi Othman . Ecology introduction. *Pengenalan Ekologi*. (Malay). Kuala Lumpur. Dewan bahasa dan Pustaka. 1986. 100 p. Bibliography p. 100. \*; ECOSYSTEMS; POLLUTION

**N: JENTERA DAN**

**KEJURUTERAAN PERTANIAN**

**N10: Struktur pertanian**

XB8705162

Rama Rao, P.S.; Graham, D.J.; Muniandy, V. Solar power-boosted smokehouse [rubber; Malaysia]. (En). *Planters' Bulletin - Rubber Research Inst. of Malaysia (Malaysia)*. ISSN 0032-096X. (Jun 1986). (no. 187) p. 52-56. \*; RUBBER; SMOKING; SOLAR ACTIVITY; MALAYSIA/ DRYERS; PRODUCTION COSTS

**N20: Jentera dan peralatan pertanian**

XB8605138

Ahmad Jusuh; Bong, C.F.J.; Mohd Said Saad (Universiti Pertanian Malaysia, Kuching, Sarawak) . An improved mechanized pepper [Piper nigrum] thresher. (En). Bong, C.F.J.; Mohd Said Saad (eds.). Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 195-201. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. \*; PIPER NIGRUM; THRESHERS; SIEVING; SARAWAK/ EFFICIENCY; THRESHING

XB8782061

Department of Agriculture, Kuching, Sarawak (Malaysia). Mechanical reaper [Sarawak]. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Jan 1987). (no. 262) p. 4. \*; ORYZA SATIVA; CUTTING; HARVESTERS; SARAWAK

XB8782103

Jabatan Pertanian, Kuching, Sarawak (Malaysia). Mechanized cocoa [*Theobroma cacao*] dryer [in Sarawak]. (En, Malay). *Farmers' Bulletin (Malaysia)*. (Apr 1987). (no. 265) p.4. \*; THEOBROMA CACAO; DRYERS; PRODUCTION COSTS; SARAWAK.

XB8705356

Matthews, G.A. (Imperial College at Silwood Park, Ascott, Berkshire (UK). Overseas Spraying Machinery Centre). Pesticides application in IPM [integrated pest management]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 294-295. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; TECHNOLOGY/ SPRAYING; APPLICATION RATE

XB8705357

Khairuddin Hashim; Teoh, C.H.; Yaakob Haji Itam (Harrisons Malaysian Plantation Berhad, Kuala Lumpur (Malaysia). Research and Advisory Scheme). Towards increased mechanisation of herbicide application in rubber [*Hevea brasiliensis*] and oil palm [*Elaeis guineensis*] plantations [in Malaysia]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 296-297. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. HEVEA BRASILIENSIS; ELAEIS GUINEENSIS; HERBICIDES; MALAYSIA/ SPRAYING; TRACTORS; PLANTATIONS; COSTS

XB8705359

Mabbett, T.H. (Dyno Industries Ltd., UK). An integrated choice of spray machines for cocoa [*Theobroma cacao*]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 299-300. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; THEOBROMA CACAO; PHYTOPHTHORA; SPRAYERS/ SPRAYING; APPLICATION RATE

XB8705360

Bakri, A.H.; Sembiring, P. (Bah Lias Research Station, Sumatra (Indonesia); Redshaw, M.J.; Turner, P.D.

Recent developments in controlled droplet application of herbicides on estates. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 301-302. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; HERBICIDES; ELAEIS GUINEENSIS; PLANTATIONS; SUMATRA/ SPRAYING; APPLICATION RATE

XB8705362

Taplin, M.C. Original development and use of VLV techniques in the tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 306-307. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; HERBICIDES; NOZZLES/ APPLICATION RATES; SPRAYING; FORMULATIONS

**P: SUMBER ALAM DAN SUMBER TANAH**

**P01: Pemuliharaan alam dan sumber tanah**

XB8705145

Duff, A.B.; Hall, R.A.; Marsh, C.W. A survey of wildlife in and around a commercial tree plantation in Sabah. (En). *Malaysian Forester (Malaysia)*. ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 197-213. ALBIZIA; ACACIA MANGIUM; GMELINA ARBOREA; SABAH/ EUCALYPTUS DEGLUPTA; FOREST PLANTATIONS; MAMMALS; HUNTING; SURVEYS

XB8705414

Sarawak Timber Industry Development Corp., Kuching (Malaysia). National parks of Sarawak : fulfilling economic and aesthetic needs. (En). *Perkasa (Malaysia)*. (Jan 1987)]. v. 3(1) p. 6-7. \*; NATIONAL PARKS; TOURISM; NATURE CONSERVATION; SARAWAK

**P05: Sumber tenaga dan pengurusan**

XB8705205

Kehoe, M.M.; Chan, L.C. Buffalo draught power on oil palm estates. (En). ISBN 967-9949-26-5. Kuala Lumpur (Malaysia). The Incorporated Society of Planters. 1987. 121 p.. Bibliography p. 111-112. Appendices. WATER BUFFALOES; WORKING ANIMALS; OIL PALMS

**P06: Pembaharuan sumber tenaga**

XB8705162

Rama Rao, P.S.; Graham, D.J.; Muniandy, V. Solar power-boasted smokehouse [rubber; malaysia]. (En). **Planters' Bulletin - Rubber Research Inst. of Malaysia (Malaysia)**. ISSN 0032-096X. (Jun 1986). (no. 187) p. 52-56. \*; RUBBER; SMOKING; SOLAR ACTIVITY; MALAYSIA/ DRYERS; PRODUCTION COSTS.

**P32: Kimia dan genesis tanah**

XB8782069

Selvadurai, K. [The relationship of types of soils in Sabah and Peninsular Malaysia]. Hubungan tanah tanah di Sabah dengan di Semenanjung Malaysia. (Malay). **Kemajuan Penyelidikan (Malaysia)**. (Sep 1986). v. 7(1) p. 11-13. \*; SOIL TYPES; SABAH; PENINSULAR MALAYSIA/ RAIN

**P33: Kimia dan fizik tanah**

XB8605128

Ahmad Husni Mohd Hanif; Sukri Ahmad (Universiti Pertanian Malaysia, Serdang, Selangor. Jabatan Sains Tanah); Peli Mat; Mohamed Hanafi Musa. Comparison of nutrient status of upper and lower part of various slopes on soil under pepper (*Piper nigrum* L.) cultivation. (En). Bong, C.F.J.; Mohd Said Saad (eds.). **Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia**. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 89-93. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; SLOPING LAND; NUTRIENT CONTENT; SARAWAK/ DEPTH; SOIL TESTING

**P34: Biologi tanah**

XB8705147

Noraini Mohd Tamin (Universiti Kebangsaan Malaysia, Bangi, Selangor. Jabatan Botani). Assessment of mycorrhizal infection in herbaceous plants from montane forests in Malaysia. (En). **Malaysian Forester (Malaysia)**. ISSN 0302-2935. (Jul-Oct 1984). v. 47(3) p. 227-236. \*; MYCORRHIZAE; TROPICAL RAIN FORESTS; HIGHLAND; MALAYSIA/ INFECTION; SPECIES.

**P36: Hakisan, pemuliharaan dan penebusgunaan tanah**

XB8782093

Bakry Shah Johan, Tengku (Kementerian Sains, Teknologi dan Alam Sekitar, Kuala Lumpur (Malaysia). Jabatan Alam Sekitar). Control of soil erosion and river siltation [Malaysia]. (En). **Ilmu Alam (Malaysia)**. ISSN 0126-7000. (May 1985-1986). (no. 14-15) p. 73-89. \*; EROSION; SEDIMENTATION; RIVERS; MALAYSIA/ WATER POLLUTION; ENVIRON-

MENTAL POLICIES; ENVIRONMENTAL PROTECTION

XB8782094

Mykura, H.F. (Universiti Kebangsaan Malaysia, Bangi, Selangor. Jabatan Geografi). Design and operation of a simple erosion plot. (En). **Ilmu Alam (Malaysia)**. ISSN 0126-7000. (May 1985-1986). (no. 14-15) p. 105-113. \*; EROSION; WATER EROSION; SEDIMENTATION; PENINSULAR MALAYSIA/ RAIN; DESIGN

**Q: PEMROSESAN HASIL PERTANIAN**

**Q02: Pemrosesan dan pengawetan makanan**

XB8605136

Zahara Merican (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Bahagian Teknologi Makanan). Pepper processing in Malaysia - a review [*Piper nigrum*]. (En). Bong, C.F.J.; Mohd Said Saad (eds.). **Pepper (Piper nigrum L.) in Malaysia: Proceedings of the National Conference on Pepper in Malaysia**. Kuching, Sarawak (Malaysia). Universiti Pertanian Malaysia 1986. p. 169-183. Received Mar. 1987. [National Conference on Pepper in Malaysia, Kuching, Sarawak (Malaysia), 16-17 Dec 1985]. PIPER NIGRUM; COTTAGE INDUSTRIES; MALAYSIA/ PROCESSING; OLEORESINS; OILS; QUALITY; COMPOSITION

XB8705160

Lee, H.K. (Institut Teknologi MARA, Shah Alam (Malaysia). Kajian Sains Gunaan). The potential of immobilized microbial cell in biotechnology. (En). **Ikhtisar (Malaysia)**. (1986). v. 1(1) p. 15-20. \*; ESCHERICHIA; ENZYMIC ACTIVITY; MICROORGANISM; INDUSTRIAL DEVELOPMENT

XB8705186

Kang, S.H. (Jabatan Kimia, Petaling Jaya (Malaysia)); Yeoh, Q.L. Food microbiology - standards, methods and applications. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 29-33. \*; FOOD INSPECTION; QUALITY CONTROLS; STANDARDS; LIGISLATION/ ANALYSIS

XB8705188

Nickelson, R. (Allied Microbiological Systems Inc., USA). Total quality systems. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 39-45. \*; BACTERIA; KEEPING QUALITY; POISONING; ENVIRONMENTAL TEMPERATURE/ BACTERIOLOGY; PH; REFRIGERATED STORAGE

XB8705191

Perkins, P. (Food Machinery Corp., USA). Manufacturing engineering. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 54-59. \*; FOOD TECHNOLOGY; FOOD INDUSTRIES; TECHNOLOGY TRANSFER; MALAYSIA/ EXPORTS; FOOD CONSUMPTION; USA

XB8782074

Palaniappan, S. (Perbadanan Khidmat Pertanian Felda, Kuala Lumpur (Malaysia). Unit Baik-Biak Koko dan Kopi). [Pre-processing of coffee beans [in Malaysia]]. Proses awalan buah kopi. (Malay). **Kemajuan Penyelidikan (Malaysia)**. (Jan 1987). v. 8 p. 4-9. COFFEE; HUSKING; NATURAL DRYING; MALAYSIA/ WINNOWING; FERMENTATION; GRADING

XB8782080

Department of Agriculture, Kuching, Sarawak (Malaysia). Cocoa processing [Theobroma cacao]. (En, Malay). **Farmers' Bulletin (Malaysia)**. (Feb 1987). (no. 263) p. 1, 2-3. THEOBROMA CACAO; COCOA; FERMENTATION; DRYING/ GRADING; STORAGE

XB8782103

Jabatan Pertanian, Kuching, Sarawak (Malaysia). Mechanized cocoa [Theobroma cacao] dryer [in Sarawak]. (En, Malay). **Farmers' Bulletin (Malaysia)**. (Apr 1987). (no. 265) p. 4. \*; THEOBROMA CACAO; DRYERS; PRODUCTION COSTS; SARAWAK

**Q03: Pencemaran dan toksikologi makanan**

XB8705165

Lyn, P.C.W. (Duchess of Kent Hospital, Sandakan, Sabah (Malaysia). Department of Medicine). Puffer fish: four case reports [in Sabah]. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1985). v. 40(1) p. 31-34. PUFFERS (FISH); POISONING; TOXINS; SABAH/ SYMPTOMS

**Q04: Kandungan makanan**

XB8705182

Lim, C.L. (Universiti Sains Malaysia, Minden, Pulau Pinang (Malaysia)). Food analysis - why and how. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8. p. 5-8. \*; FOOD INSPECTION; LEGISLATION; CHEMISTS; CHEMICAL ANALYSIS

XB8705183

Ahmad Abdul Wahab (Institut Penyelidikan dan Kemajuan Pertanian Malaysia, Serdang, Selangor. Bahagian Khidmat Analisa); Mohd Nordin Mohd Som; Abu Bakar Haji Hussin. Chromatographic techniques in food analysis. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8. p. 9-16.

COCOA; CHROMATOGRAPHY; FATTY ACIDS; SUGARS

XB8705184

Augustin, M.A. (Universiti Pertanian Malaysia, Serdang, Selangor); Chong, C.L. Measurement of deterioration in fats and oils. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 17-21. \*; FATS; OILS; DEGRADATION; MEASUREMENT/ CHEMICAL ANALYSIS

XB8705185

Tee, E.S. (Institut Penyelidikan Perubatan, Kuala Lumpur (Malaysia). Bahagian Pemakanan Manusia). Analytical methods for nutrient analysis of foods. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 22-28. \*; NUTRITIVE VALUE; NUTRIENTS; MOISTURE CONTENT; LABORATORY EQUIPMENT/ CHEMICAL ANALYSIS

XB8705188

Nickelson, R. (Allied Microbiological Systems Inc., USA). Total quality systems. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 39-45. \*; BACTERIA; KEEPING QUALITY; POISONING; ENVIRONMENTAL TEMPERATURE/ BACTERIOLOGY; PH; REFRIGERATED STORAGE

XB8705189

Tan, H.B. Supplier authorization in ASEAN environment. (En). **Food Technology in Malaysia (Malaysia)**. ISSN 0127-4503. (1986). v. 8 p. 46-49. \*; KEEPING QUALITY; QUALITY CONTROLS; LEGISLATION; MALAYSIA/ CHEMICAL ANALYSIS; FOOD INSPECTION; PACKAGING; IMPORT CONTROLS

XB8782089

Hamdan Adnan. [The nation rice quality is low? [Malaysia]]. Mutu beras negara rendah?. (Malay). **Dewan Masyarakat (Malaysia)**. ISSN 0419-0386. (Mar 1987). v. 25(3) p. 36-38. RICE; QUALITY CONTROLS; CONSUMER BEHAVIOUR; MALAYSIA

**Q54: Kandungan makanan ternakan**

XB8782099

Jabatan Pertanian, Kuching, Sarawak (Malaysia). Palm kernel cake as cattle feed [in Sarawak]. (En, Malay). **Farmers' Bulletin (Malaysia)**. (Mar 1987). (no. 264) p. 1-3. CATTLE; ? PALM KERNEL CAKE; SARAWAK/ COMPOSITION; FEED PROCESSING

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

XB8705163

Lim, C.L.; Ong, E.L. Importance of a processability indicator for natural rubber. (En). **Planters' Bulletin - Rubber Research Inst. of Malaysia (Malaysia)**. ISSN 0032-096X. (Jun 1986). (no. 187) p. 57-60. RUBBER; CHEMICOPHYSICAL PROPERTIES; PROCESSING

XB8705164

Muniandy, V.; Graham, D.J.; Rama Rao, P.S. Centralised processing of smallholders' latex: a case study [Malaysia]. (En). **Planters' Bulletin - Rubber Research Inst. of Malaysia (Malaysia)**. ISSN 0032-096X. (Jun 1986). (no. 187) p. 61-69. RUBBER; SMALL SCALE FARMING; PROCESSING; MALAYSIA/ PRODUCTION COSTS

**Q70: Pemprosesan  
sisa-sisa pertanian**

XB8782099

Jabatan Pertanian, Kuching, Sarawak (Malaysia). Palm kernel cake as cattle feed [in Sarawak]. (En, Malay). **Farmers' Bulletin (Malaysia)**. (Mar 1987). (no. 264) p. 1-3. CATTLE; ? PALM KERNEL CAKE; SARAWAK/ COMPOSITION; FEED PROCESSING

**S: PEMAKANAN MANUSIA**

**S01: Pemakanan manusia  
- aspek am**

XB8705166

Yap, S.B. (Universiti Malaya, Kuala Lumpur (Malaysia). Department of Social and Preventive Medicine). Health literacy and food beliefs among Ibans [ethnicity], Sarawak. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Dec 1985). v. 40(4) p. 294-300. \*; HEALTH; MORBIDITY; ETHNICITY; SARAWAK/ FOOD PREFERENCES

**S20: Fisiologi pemakanan manusia**

XB8705197

Jelliffe, D.B. (University of California, Los Angeles (USA). School of Public Health). Recent developments in breastfeeding. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 59-63. \*; SUCKLING; MILK; HEALTH SERVICES/ INFANT FEEDING; COMPOSITION; CHILD CARE

XB8705198

Jelliffe, E.F.P. (University of California, Los Angeles (USA). Family Health Div.). Programmes to promote breastfeeding. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 64-71. \*; SUCKLING; MATERNITY; HEALTH; HUMAN FEEDING/ BEHAVIOUR; INFORMA-

TION NEEDS; CHILD CARE; MOTIVATION

XB8705199

Jelliffe, D.B. (University of California, Los Angeles (USA). School of Public Health). Adequacy of lactation: dysreflexia vs. maternal nutrition. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 77-83. \*; LACTATION; HUMAN FEEDING; MILK; HEALTH SERVICES/ COMPOSITION

XB8705201

Jelliffe, E.F.P. (University of California, Los Angeles (USA). School of Public Health). Breastfeeding and the prevention of malnutrition. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 88-92. \*; SUCKLING; MALNUTRITION; VITAMINS; MINERALS/ DIGESTIVE DISORDERS; MILK

**S30: Sajian makanan dan  
penyakit-penyakitnya**

XB8705194

Chong, Y.H. (Institut Penyelidikan Perubatan, Kuala Lumpur (Malaysia)). Nutrition scene in Malaysia. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 1-3. \*; NUTRITION PHENOMENA; MALNUTRITION; RESEARCH; MALAYSIA/ EDUCATION

**S40: Program-program pemakanan**

XB8705115

Abdul Kader Hussain. [A guide to basic children health]. Suluh asuhan panduan asas kesihatan anak. (Malay). ISBN 967-61-0095-1. Kuala Lumpur (Malaysia). Utusan Publications & Distributors Sdn. Bhd. 1986. 212 p. \*; CHILDREN; CHILD CARE; CHILD FEEDING; HEALTH

XB8705194

Chong, Y.H. (Institut Penyelidikan Perubatan, Kuala Lumpur (Malaysia)). Nutrition scene in Malaysia. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 1-3. \*; NUTRITION PHENOMENA; MALNUTRITION; RESEARCH; MALAYSIA/ EDUCATION

XB8705196

Valyasevi, A. (Mahidol University, Bangkok (Thailand). Institute of Nutrition); Dhanamitta, A. Development of supplementary food at the home and community level. (En). **Medical Journal of Malaysia (Malaysia)**. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 53-58. RICE; SOYBEANS; NUTRITIVE VALUE; THAILAND/ COMPOSITION; FOOD PRODUCTION; HEALTH SERVICES; SUPPLEMENTARY FEED-

ING

**XB8705200**

Jelliffe, D.B. (University of California, Los Angeles (USA). School of Public Health). Child health strategies in primary health care. (En). *Medical Journal of Malaysia (Malaysia)*. ISSN 0300-5283. (Mar 1986). v. 41(1) p. 84-87. \*; CHILD CARE; HEALTH; SUCKLING; MOTHERS

**T: PENCEMARAN**

**T01: Pencemaran**

**XB8705177**

Brader, L. (FAO, Rome (Italy). Plant Production and Protection Div.). Problems of pesticide usage in the tropics. (En). *Journal of Plant Protection in the Tropics (Malaysia)*. ISSN 0127-6883. (Jun 1986). v. 3(1) p. 1-11. PESTICIDES; APPLICATION METHODS; ENVIRONMENT POLICIES; TROPICS/ PUBLIC HEALTH

**XB8782093**

Bakry Shah Johan, Tengku (Kementerian Sains, Teknologi dan Alam Sekitar, Kuala Lumpur (Malaysia). Jabatan Alam Sekitar). Control of soil erosion and riversiltation [Malaysia]. (En). *Ilmu Alam (Malaysia)*. ISSN 0126-7000. (May 1985-1986). (no. 14-15) p. 73-89. \*; EROSION; SEDIMENTATION; RIVERS; MALAYSIA/ WATER POLLUTION; ENVIRONMENTAL POLICIES; ENVIRONMENTAL PROTECTION

**XB8782096**

Ngam, S.M. Fungicide scare: tending to farmers' plight [Peninsular Malaysia]. (En). *Malaysian Business (Malaysia)*. ISSN 0126-5504. (16 Apr 1987). p. 65. \*; PESTICIDES; TOXICITY; FARMERS; PENINSULAR MALAYSIA/ EXTENSION ACTIVITIES

**XB8705203**

Goldenman, G.; Sarojini Rengam. Problem pesticides, pesticide problems : a citizens' action guide to the International code of conduct on the distribution and use of pesticides. (En). ISBN 967-9973-20-A. Pulau Pinang (Malaysia). International Organisation of Consumers Unions and Pesticide Action Network 1987. 94 p. Appendices. \*; PESTICIDES; PESTICIDE RESISTANCE; PEST CONTROL METHODS

**XB8705289**

Brader, L. (FAO, Rome (Italy). Plant Production and Protection Div.). Problems of pesticide usage in the tropics. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 138. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; REGULATIONS; POISONING; TROPICS/ TECHNOLOGY

**XB8705307**

Woo, Y.K. (Shell Malaysia, Kuala Lumpur. Tiram Kimia Sdn. Bhd.); Shires, S.W. A step-wise programme for evaluating the environmental impact of pesticides. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 173-176. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; SAFETY; TOXICITY/ ENVIRONMENTAL PROTECTION; TESTING

**XB8705314**

Impithuska, S.; Suwaparp, R.; Panwiryapong, S. (Department of Agriculture, Bangkok (Thailand). Agricultural Toxic Substances Div.). The impacts of carbofuran, isazaphos and chlorpyrifos in rice [*Oryza sativa*] paddy [in Thailand]. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 202. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. ORYZA SATIVA; PESTICIDES; RESIDUES; THAILAND/ TRANSPLANTING; CHROMATOGRAPHY

**XB8705339**

Mahathevan, R. (Jabatan Perkhidmatan Perubatan dan Kesihatan Malaysia, Kuala Lumpur). The need to establish Poison Advisory Service including poison control centre in Malaysia with special reference to pesticide poisoning. (En). 2nd International Conference on Plant Protection in the Tropics - Extended Abstracts. Serdang, Selangor (Malaysia). 1986. p. 255. \* Library, Universiti Pertanian Malaysia. [2. International Conference on Plant Protection in the Tropics, Genting Highlands (Malaysia), 17-20 Mar 1986]. \*; PESTICIDES; TOXICITY; POISONING; MALAYSIA/ EXTENSION ACTIVITIES.

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# Istilah Pertanian Pilihan

## BAHASA INGGERIS

## BAHASA MALAYSIA

### A

acauline plant	-	tumbuhan tak berbatang/ tumbuhan akaulin
accessory fruit	-	buah aksesori
acetic fermentation	-	penapaian asetik/fermentasi asetik
acidic fermentation	-	fermentasi asid/penapaian asid
acre-yield	-	hasil seekar
acrylic resin	-	resin akrilik
acrylic rubber	-	getah akrilik
action of water	-	tindakan air
activated sludge	-	enap cemar aktifan
activated sludge process	-	proses enap cemar aktifan
afforestation	-	penghutanan
after ripening	-	selepas masak
agricultural chemistry	-	kimia pertanian
agricultural statistics	-	statistik pertanian/ilmu statistik pertanian
agro- (1)	-	agro -
agro- (2)	-	pertanian
agrochemistry	-	kimia pertanian/agrokimia
alcohol fermentation	-	penapaian alkohol/ fermentasi alkohol
aldosugar	-	gula aldo
algicide	-	peracun rumpai/peracun alga
alimentary	-	penjajaran
alkali cell	-	bateri alkali
allantois bud	-	tunas alantois
allantois stalk	-	tangkai alantois
amenity forest	-	hutan lipur
amylo fermentation	-	fermentasi amilo/ penapaian amilo
amylolytic fermentation	-	penapaian amilolisis/germentasi amilolisis
anabolism fat	-	lemak anabolisma
angiosperm	-	angiosperma
animal oil	-	minyak haiwan
animal pole	-	kutub giat/kutub haiwan
aniseed oil	-	minyak jintan manis
anther	-	cepu debunga/anther
anti bacterial	-	anti bakteria
anticoagulant	-	anti penggumpal
anti contamination	-	anti lumusan

aqua (1)	-	air
aqua (2)	-	akua
aquamarine	-	akuamarin
aquatic (1)	-	berair/akuatik
aquatic (2)	-	air
aquatic animal	-	haiwan air
assay mill	-	pengisar cerakanin/ pengisar asai
asteroplankton	-	asteroplankton
available carbohydrate	-	karbohidrat yang ada
average life	-	purata hayat
avocado	-	avokado/buah mentega

### B

bad-lands	-	tanah buruk/tanah jelik
balance tree	-	pohon seimbang/pokok seimbang
ball (2)	-	bebola
ball mill	-	pengisar bebola
balsam	-	balsam/keembong
bark slip	-	kulit mengelupas
barking (1)	-	pengulitan
barn	-	barn
base of stem	-	pangkal batang
bast	-	floem/kulit pokok
bast fibre	-	gentian floem/serabut floem/gentian kulit pokok/serabut kulit pokok
beeswax	-	lilin lebah
beet	-	bit
binary tree	-	pohon dedua/pohon biner
blue green algae	-	alga biru hijau/rumpai biru hijau
blue mud	-	lumpur biru
bony	-	bertulang
brackish	-	payau
brackish water	-	air payau
bran	-	dedak
breed (1)	-	baka
breed (2)	-	biak baka
breeding (1)	-	biak baka
breeding (2)	-	pembiakan baka
breeding ratio	-	nisbah biak baka
brittle (1) (material)	-	rapuh
brittle (2) (food)	-	rangup
bulb (3)	-	bebawang
butter fat	-	lemak mentega
butter milk	-	susu mentega
butyl rubber	-	getah butil
<b>C</b>		
carpenter bee	-	lebah pengorek
channel (2) (land)	-	alur
chevron (1)	-	pucuk rebung

chlorinated rubber	-	getah terklorin
chromoprotein	-	kromoprotein
cinnamon	-	kayu manis
cleidoic egg	-	telor kleidoik
cocoa butter	-	mentega koko
colonial animal	-	haiwan berkoloni
complete flower	-	bunga lengkap
composite landscape	-	pandangan darat gubahan/tarahan tanah gubahan
conservationist	-	pengabadi/pemulihara
conservatism	-	konservatisme
conservatize (1)	-	mengabadikan/ memuliharkan
conservatize (2)	-	abadi/puliharakan
conserve (1)	-	abadi
conserve (2)	-	simpan
conserva (3)	-	pulihara
coral formation	-	pembentukan karang/ pembentukan batu karang
crest (3) (chicken)	-	balung

## D

deciduous plant	-	tumbuhan meluruh
defoliate	-	meluruh daun/meranggas
defoliation	-	peluruhan daun/perangasan
defolicut	-	peluruh daun/peranggas
deforest	-	nyahhutan
deforestation	-	penyahhutan
dehydrated food	-	makanan ternyah-hidrat/ makanan ternyahair
dehydrofreezing	-	penyejukbekuan nyahair
diet	-	gizi
diet problem	-	masalah gizi
dietician	-	ahli gizi
dieting	-	mengizi
digestible protein	-	protein boleh hadam/ protein terhadamkan
divided leaf	-	daun sumbing
dormant bud	-	tunas dorman
dorsal fin	-	sirip dorsal
dorsal root	-	akar dorsal
dwarf animal	-	haiwan kerdil
dwarf fauna	-	fauna kerdil

## E

egg membrane	-	membran telur
egg shell	-	cangkang telur/kulit telur
epigynous flower	-	bunga epigini
extended binary tree	-	pohon dedua diperluas/ pohon biner

## F

farm (1) (animal)	-	ternak
farm (2)	-	ternakan
farm (3) (Plant)	-	bertani/berladang
farm (4)	-	ladang
farmer (1)	-	petani/peladang
farmer (2)	-	penternak
farming (1) (animal)	-	peternakan
farming (2) (planting)	-	pertanian
fast breeder reactor	-	reaktor pembiak cepat
feed (2) (food)	-	makanan haiwan
feeding habit	-	tabiat makan
ferns	-	paku pakis
filter feeder	-	penyuap turas
flavoprotein	-	flavoprotein
flora	-	flora
floral	-	bunga
forager bee	-	lebah pencari makan
fruitless	-	tanpa buah
fruity	-	berperisa buah
fungi	-	kulat
fungicide	-	peracun kulat
fungus	-	kulat

## G

geobotany	-	geobotani
grain (2) (wood)	-	urat
grains	-	biji-bijian
green algae	-	alga hijau
gross (4) (food)	-	lemakan

## H

heart wood	-	kayu teras
helminthology	-	helmintologi
hill creep	-	rayapan sisi bukit
hill forest	-	hutan bukit
hill pattern	-	pola bukit/corak bukit
hill station	-	stesen bukit
hillock	-	anak bukit
honeycomb	-	sarang lebah
honeycomb coral	-	batu karang sarang lebah

## I

immature soil	-	tanah muda/tanah tak matang
indicator plant	-	tumbuhan penunjuk

## L

land utilization	-	penggunaan tanah
landform	-	bentuk bumi
late wood	-	kayu lewat
lateral erosion	-	hakisan sisi
leaf sheath	-	salut daun/kelopak daun



lethargic animal - haiwan lembap  
 long day plant - tumbuhan hari panjang  
 lowlands - tanah pamah

## M

marine (1) - samudera  
 marine (2) - laut  
 marine (3) - marin  
 marine fish - ikan laut/ikan samudera  
 mature soil - tanah matang  
 meal (1) (plant) - baja/makanan  
 meal (2) (animal) - makanan  
 monogenetic soil - tanah monogenesis  
 multiple fruit - buah berganda  
 multiple roots 92) (biology) - akar berganda

## N

nerver root - akar saraf  
 node (2) (tree) - buku  
 nutrient - zat makanan  
 nutritional - pemakanan  
 nutritonal quality - mutu pemakanan  
 nutritional value - nilai pemakanan  
 nutritious - berkhasiat

## O

ordered tree - pohon bertertib/pokok bertertib

## P

photophilic plant - tumbuhan fotofili  
 photophobic plant - tumbuhan fotofobia  
 piece (2) (food etc.) - cebis  
 piece (3) (bread etc.) - keping  
 pig (1) - babi  
 pig (2) - mentah  
 pipe (4) (of a plant such as bamboo) - lohong  
 plain - dataran  
 plankton - plankton  
 planktonic - plankton  
 plant acid - asid tumbuhan  
 plant element - unsur tumbuhan  
 plant hormone - hormon tumbuhan  
 plant society - masyarakat tumbuhan  
 planter (1) - penanam  
 planter (2) - pekebun  
 planter (3) - peladang  
 polysulphide rubber - getah polisulfida  
 preservation food - pengawetan makanan  
 preservative - bahan awet  
 preserve - awet  
 pulpwood - kayu pulpa

## R

rain forest - hutan hujan  
 reafforestation - pemugaran hutan  
 rubber (1) - getah  
 rubber cement - simen getah  
 rubber policeman - pelapik getah  
 runner (1) (a plant) - poko rayap  
 runner (2) (a family of fish) - ikan lumba

## S

self pollinate - menswadebungakan  
 self pollination - penswadebungaan  
 self-fertilise - memperswasenyawakan  
 self-fertilization - penswasenyawaan  
 shoot (3) (e.g. yam) - sulur  
 shoot (4) (e.g. bamboo) - rebung  
 shoot (5) (tree) - pucuk  
 short day plant - tumbuhan hari pendek  
 shortening (2) (a kind of fat) - lemak  
 silicified wood - kayu tersilika  
 silk - sutera  
 silk worm - ulat sutera  
 silky - mirip sutera  
 single cell protein (SCP) - protein sel tunggal (PST)  
 smoke fish - ikan salai  
 soil amelioration - ameliorasi tanah/pembaikan tanah  
 soil conservation - pemuliharaan tanah  
 soil creep - rayapan tanah  
 soil zone - zon tanah  
 staple food - makanan utama  
 sterile (3) (land) - tak subur  
 summer wood - kayu musim panas

## T

threaded trees - pohon beruntai  
 tobacco mosaic disease - penyakit mosek tembakau  
 top (3) (of a tree) - pucuk  
 tread (2) padi - merenyak/mengirik  
 tree (1) (maths.) - pohon  
 tree (2) (biology) - pokok/pohon  
 tree diagram - gambarajah pohon

## U

upland - tanah tinggi  
 urea - urea

## V

vagrant animal - haiwan siarah/haiwan merantau

vegetable alkali	-	alkali sayuran	wasteland	-	tanah tandus
vegetable casein	-	kasein sayuran	wind erosion	-	hakisan angin
vegetable chemistry	-	kimia sayuran	wood opal	-	baiduri kayu
vegetable dye	-	pencelup tumbuhan/ pewarna tumbuhan	wood vinegar	-	cuka kayu
vegetable fat	-	lemak sayuran	<b>Y</b>		
vegetable milk	-	susu sayuran	young plain	-	dataran muda
vegetable remains	-	sisa tumbuhan	young river	-	sungai muda
vegetation	-	tumbuh-tumbuhan	youthful landscape	-	pandangan darat per- ingkat muda/tarahan tanah peringkat muda
vegetative	-	tampang			
vegetative reproduction	-	pembiakan tampang	<b>Z</b>		
vein (1) (botany)	-	urat daun	zebra	-	kuda belang/zebra
ventral root	-	akar ventral	zebra dolomite	-	dolomit zebra/dolomit kuda belang
vetivert oil	-	minyak vetivert	zooplankton	-	zooplankton
virgin forest	-	hutan dara			
<b>W</b>					
wall (1)	-	tebing			
warped (1) (plant)	-	bangkut			

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## Pertukaran alamat

Jika anda telah bertukar alamat, harap beritahu kami butir-butir berikut:-

- (i) alamat baru
- (ii) alamat lama
- (iii) nombor senarai mel

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## Kalendar Kongress Pertanian

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Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antarabangsa mengenai pertanian dan pekerja-pekerja berkaitan dengannya yang akan diadakan dari bulan Mac 1989 hingga bulan November 1989. 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.

### Mac 7-8, 1989

Judul : Seminar Betik Eksotika : Masalah dan prospek  
Tempat : Johor Bahru  
Anjuran : MARDI

### Jun, 1989

Judul : Kursus Perlebahan Madu ke 13  
Tempat : Universiti Pertanian Malaysia  
Anjuran : UPM & IDRC

### Jun 20-23, 1989

Judul : Kursus "Low Acid Canned Food"  
Tempat : Bhg. Teknologi Makanan, MARDI, Serdang  
Anjuran : MARDI dan USFDA

### Jun 20-22, 1989

Judul : PKDP Workshop : Modelling of Agriculture Sectors  
Tempat : Pusat Pengembangan & Pendidikan Lanjutan, U.P.M.  
Anjuran : Pusat Kajian Dasar Pertanian (PKDP), Fakulti Ekonomi & Pengurusan, U.P.M.

### Ogos/September, 1989

Judul : Training course 'Water Quality and Water Resource Management'  
Tempat : Universiti Pertanian Malaysia  
Anjuran : UPM/Perancis

### September 5-9, 1989

Judul : 1989 PORIM International Palm Oil Development Conference  
Tempat : Hilton, Kuala Lumpur  
Anjuran : PORIM

### September 25-26, 1989

Judul : Bengkel Penggunaan & Pengurusan Input Pertanian dalam Pengeluaran Padi  
Tempat : Auditorium MARDI, Serdang

### Oktober 17-27, 1989

Judul : Kursus "Food Inspection"  
Tempat :  
Anjuran: MARDI dan FAO

### November, 1989

Judul : Kursus Perlebahan ke 14  
Tempat : Universiti Pertanian Malaysia  
Anjuran : UPM & IDRC

### November, 1989

Judul : Pesticide Application Technology  
Tempat : Universiti Pertanian Malaysia  
Anjuran : UPM & MAPPS

### November, 1989

Judul : Regional Conference on Engineering in Agriculture (Konferensi Serantau Mengenai Kejuruteraan Dalam Sektor Pertanian)  
Tempat : Pusat Pengembangan & Pendidikan Lanjutan, UPM  
Anjuran : UPM

Judul : Training course 'Monitoring of Domestic and Industrial Wastewater'  
Tempat : Universiti Pertanian Malaysia  
Anjuran : UPM/DOE

### November 7, 1989

Judul : Bengkel Penyelidikan Tembakau  
Tempat : Kota Bharu  
Anjuran : MARDI

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