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INSTITUT PENYELIDIKAN PERHUTANAN
MALAYSIA : Satu Pengenalan

Wan Rahmah Wan A. Raof

PENDAHULUAN

Penyelidikan perhutanan di Malaysia dilaporkan telah bermula dalam tahun 1879 tetapi hanya dijalankan dengan rasmi pada tahun 1918 dengan perlantikan Dr. F. W. Foxworthy sebagai Pegawai Penyelidik di Bahagian Penyelidikan, Jabatan Perhutanan Negeri-negeri Selat yang berpusat di Kuala Lumpur. Bahagian Penyelidikan tersebut kemudiannya dipindahkan ke Kepong pada tahun 1929 dan ditukar namanya kepada Institut Penyelidikan Perhutanan (IPP Kepong).

Struktur IPP kemudiannya telah digubal semula dalam usaha kerajaan meningkatkan penyelidikan

dalam bidang perhutanan. Pada tahun 1985, Akta Lembaga Penyelidikan dan Pembangunan Perhutanan Malaysia telah diluluskan dan sebuah badan berkanun yang diberi nama Lembaga Penyelidikan dan Pembangunan Perhutanan Malaysia (MFRDB) telah ditubuhkan. Daripada sebuah unit di bawah Jabatan Perhutanan Semenanjung Malaysia, IPP telah diubah tarafnya menjadi sebuah badan berkanun pada 1hb Oktober 1985 di bawah pengurusan MFRDB dan bertanggungjawab kepada Kementerian Perusahaan Utama. Sehubungan dengan itu, fungsi FRIM antara lainnya ialah:

- menjalankan dan menganjurkan penyelidikan dalam pembangunan perhutanan termasuk penghasilan, pengeluaran, pemrosesan, penyimpanan, pengangkutan dan penggunaan hasil-hasil hutan demi pemeliharaan sumber alam semula jadi dan pembangunan sektor perhutanan yang berterusan;
- mengumpul dan menyebarkan maklumat yang berkaitan dengan pengurusan dan pembangunan hutan, hasil hutan dan penggunaan keluaran hutan;
- menyelaras aktiviti tentang hal-hal yang berkaitan dengan penyelidikan pembangunan dan industri perhutanan di Malaysia serta berhubung rapat dengan lain-lain institusi di luar negeri dalam hal-hal yang berkenaan.

PROJEK-PROJEK UTAMA DAN PENCAPAIAN

1) Penggunaan Kayu

Salah satu daripada kejayaan dalam bidang penyelidikan hutan ialah Perumusan Peraturan Pemeringkatan Kayu Malaya (Malayan Grading Rules) untuk kayu gergaji dalam tahun 1950an. Kejayaan juga dicapai dalam bidang penyelidikan

MPM ialah sebuah buletin suku tahunan yang diterbitkan oleh Perpustakaan Universiti Pertanian Malaysia. Pandangan dan pendapat penyumbang tidak semestinya mencerminkan pandangan atau pendapat jemaah pengarang. Buletin ini diberi secara percuma atas permintaan. Sila alamatkan semua surat menyurat/pertanyaan kepada: Ketua Pengarang, Buletin Maklumat Pertanian Malaysia, Perpustakaan, Universiti Pertanian Malaysia, 43400 UPM, Serdang, Selangor.
Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd. Ariff Ariffin
Pengarang-pengarang: Badilah Saad; Hawa Abdul Majid; Asliah Abu; Hafizah Hassan
Penyunting: Jama'yah Zakaria

glulam (glue lamination) iaitu suatu bentuk susunan di mana beberapa lapisan kayu dicantum bersama menggunakan perekat. Sebuah gergaji bergerak (mobile saw) yang terbukti murah dan sesuai telah juga direkabentuk dengan jayanya. Usaha-usaha penyelidikan juga telah ditumpukan kepada pembentukan sistem perlindungan dan pengeringan kayu-kayan tempatan.

Di samping itu, dalam kajian penyelidikan kertas dan palpa, kajian telah membuktikan bahawa kebanyakan kayu keras ringan berketumpatan rendah dan sebahagian kayu keras berketumpatan sederhana adalah sesuai digunakan. Satu Senarai Induk Piawaian Kayu-kayan ASEAN (Master List of Standard ASEAN Timber) telah disusun dan satu sistem pengelasan kayu yang seragam telah dirangka dalam usaha menggalakkan penggunaan dan pemasaran jenis-jenis kayu-kayan kurang terkenal.

2) Perhutanan

Penyelidikan telah ditumpukan kepada kajian botani asas, ekologi dan perlindungan hutan. Pengetahuan mendalam tentang tumbuh-tumbuhan, ekologi, jenis-jenis serangga dan kulat di Semenanjung Malaysia telah menghasilkan beberapa penerbitan. Usaha telah dimulakan untuk merangka sistem silvikultur dan pengurusan ladang pokok-pokok cepat membesar serta sistem pengurusan lebih. Kejayaan utama yang lain ialah penggubalan Sistem Sebayu Malaysia (MUS) di mana penebangan pokok-pokok secara serentak merupakan sistem yang sesuai sekali untuk penumbuhan semula hutan dipterokarp pamah. Bagaimanapun, dalam pengurusan hutan bukit, MUS terpaksa dikaji semula untuk disesuaikan dengan keadaan-keadaan ekologi yang berbeza.

PROJEK-PROJEK MASA KINI

Sebagai sebuah institusi penyelidikan, FRIM sudah tentunya terlibat dalam berbagai-bagai aktiviti penyelidikan dalam usaha memajukan lagi bidang perhutanan di negara ini. Kajian-kajian yang sedang dijalankan di FRIM sekarang ini adalah meliputi bidang-bidang seperti berikut:-

- 1) Penggunaan Batang Kelapa Sawit
- 2) Kayu Getah
- 3) Rotan
- 4) Buluh
- 5) Pengurusan Hutan dan Ladang Hutan
- 6) Hidrologi
- 7) Perhutanan Bandar
- 8) Taman Sains dan Rekreasi Rimba

KEMUDAHAN-KEMUDAHAN DI FRIM

Beberapa kemudahan yang terdapat di FRIM adalah:

- 1) Taman Sains Rimba
- 2) Tapak Semaian
- 3) Arboreta, iaitu arboretum Dipterokarp, Bukan Dipterokarp, Gymnosperma, Pokok-pokok Buah-buahan dan Monocot.
- 4) Herbarium dengan lebih 125,000 spesimen
- 5) Koleksi kayu yang dimulakan dalam tahun 1918 dan kini berjumlah 9900 contoh
- 6) Muzium
- 7) Perpustakaan, yang mana jumlah koleksinya telah meningkat ke 120,000 jilid dan 1000 tajuk jurnal, termasuk majalah-majalah berkala yang telah dikumpul sejak tahun 1800.

PERKHIDMATAN

Khidmat Nasihat dan Perundingan Teknikal

FRIM memberi khidmat runding teknikal dalam bidang tajuk yang luas seperti ekologi hutan, botani, kaji serangga, kaji penyakit, hidrologi, perhutanan bandar, hutan paya laut, rotan, ladang hutan, palpa dan kertas, teknik gergaji, pengawetan kayu, menguji kayu, kayu getah, tenaga daripada kayu dan lain-lain.

Khidmat Pengembangan Perhutanan

Perkhidmatan ini menyalurkan hasil-hasil penyelidikan dan pengetahuan di institut kepada para pengguna.

Bekalan Stok Tanaman

Seksyen tapak semaian menyediakan berbagai-bagai jenis pokok hiasan untuk jualan di samping membekalkan stok tanaman untuk Jabatan-jabatan Perhutanan Negeri serta memberi khidmat runding tentang teknik-teknik penanaman dan penjagaan pokok-pokok.

Latihan di Bidang Keluaran Hutan

Kursus-kursus berikut dijalankan di FRIM:

- Saw Doctoring
- Pengendalian Gergaji
- Penyelenggaraan Mata Pemetong
- Mengumai Kayu
- Penggunaan Rotan dan Buluh (Projek Perusahaan Kecil)

Pengenalan Kayu dan Tumbuh-tumbuhan

Sebarang bahan tumbuh-tumbuhan (kayu, buah, bunga, daun dan sebagainya) boleh dirujuk kepada institut untuk dikenalpasti. Kursus pengenalan kayu dan pokok boleh diatur atas permintaan.

Contoh Kayu

Contoh-contoh kayu yang mengandungi 60 spesis kayu ada dijual dengan harga \$40/- sekotak.

Khidmat Perpustakaan

Ia menyediakan perkhidmatan pertanyaan dan rujukan. Bahan-bahan bacaan untuk pinjaman di luar institut melalui pinjaman antara perpustakaan dibenarkan.

Penerbitan

Seksyen penerbitan mengendalikan semua laporan, artikel dan hasil-hasil penyelidikan FRIM. Penerbitan-penerbitan untuk jualan boleh didapati daripada Pegawai Penerbitan.

Lawatan

FRIM mengalu-alukan kedatangan berbagai-bagai peringkat pelawat dan ini boleh diatur dengan menghubungi Pegawai Perhubungan Awam. Nombor telefon: 03-6342633.

PENERBITAN

FRIM menerbitkan beberapa siri penerbitan iaitu:-

1) Malayan Forest Records

Keluaran pertamanya telah diterbitkan dalam tahun 1921 sebagai Nombor 1 bagi 'Malayan Science Bulletin'. Keluaran-keluaran berikutnya diterbitkan sebagai 'Malayan Forest Records' yang mengandungi hasil dan kerja-kerja penyelidikan yang lengkap.

2) FRIM Research Pamphlets

Mula dikeluarkan pada 1983 dengan nama 'FRI Research Pamphlet' dan ditukar kepada 'FRIM Research Pamphlet' pada tahun 1986. Diterbitkan dari masa ke semasa untuk melaporkan teknik-teknik dan hasil-hasil penyelidikan.

3) Timber Trade Leaflet

Mula diterbitkan dalam tahun 1953 khusus bagi industri perkayuan dan mengandungi maklumat mudah serta ringkas tentang kayu kayan tempatan.

4) FRIM Report

Dimulakan dalam bulan Mac 1979 sebagai 'FRI Report' dan ditukar kepada 'FRIM Report' pada 1986. Diterbitkan dari masa ke semasa untuk melaporkan keputusan penyelidikan di peringkat awal.

5) Timber Digest

Mula dikeluarkan pada bulan Mac 1979 untuk menyebarkan maklumat dan penerangan am tentang bidang perkayuan kepada orang ramai dan sektor perkilangan.

6) Buletin Perhutanan Bandar

Buletin suku tahunan ini dilancarkan pada awal tahun 1986 yang bertujuan untuk memberi maklumat kepada orang awam tentang penanaman pokok-pokok dalam persekitaran bandar.

7) FRIM Research Programme

Diterbitkan setahun sekali mulai 1986 dan mengandungi semua projek penyelidikan yang dijalankan di institut ini.

8) FRIM Information

Mula diterbitkan pada tahun 1987 dan mengandungi maklumat berguna tentang hasil-hasil penyelidikan FRIM sebagai bahan rujukan dan panduan para penyelidik lain serta orang awam.

STESEN-STESEN KECIL

1) Pasoh

Terletak 37km ke utara Kuala Pilah, Negeri Sembilan di dalam kawasan hutan dipterokarp pamah seluas 2000 ha. dan diguna untuk berbagai kajian ekologi dan biologi ekosistem hutan tropika. Dilengkapi dengan makmal dan menara serta mengandungi beberapa petak percubaan.

2) Mata Air

Terletak 28km dari Kangar, Perlis dan meliputi Kawasan seluas 1096 ha. Menjalankan penyelidikan ke atas biologi dan pertumbuhan pokok jati dan pain.

3) Jengka

Terletak dalam kawasan konsesi Syarikat Jengka Sendirian Bhd., di Pahang dan memberi kemudahan untuk penyelidikan di bidang silvikultur, biologi, hidrologi dan ekologi hutan bandar.

4) Jambu Bongkok

Langkah-langkah sedang diambil untuk membina infrastruktur stesen yang terletak di Lebuhraya Dungun/Kuala Terengganu di Rantau Abang. akan digunakan untuk menjalankan kajian ke atas

pemulihan tanah-tanah kurang subur dan tanah usang.

Untuk keterangan lanjut sila berhubung dengan:

Ketua Pengarah
Institut Penyelidikan Perhutanan Malaysia
Kepong, Selangor Darul Ehsan
52109 Kuala Lumpur.

Atau Telefon : 03 - 6342633, 6342152
 Telex : FRIM - MA - 27007

**SENARAI BUKU-BUKU
PENERBIT UNIVERSITI
PERTANIAN MALAYSIA
43400 UPM Serdang, Selangor**

1. Introduction to Veterinary Microbiology, M.A. Soltys(pengarang), 1979,469hlm. M\$11.50 ISBN 967-9952-09-6 (kulit nipis) & ISBN 967-9952-08(kulit tebal)
2. Agricultural Engineering in National Developments, Choa Swee Lin et al. (penyunting), 1981, 366hlm.M\$ 30.00 ISBN 967-9952-10-X.
3. Animal Production and Health in the Tropics, M.R.Jainudeen dan A.R.Omar (penyunting) 1982,482hlm. M\$27.00, ISBN 967-9952-11-8.
4. Tropical Forests Source of Energy Through Optimisation and Diversification, P.B.L.Srivastava et al,1982 397hlm. M\$15.00, ISBN 967-9952-07-X.
5. Food Technology in the Developing Countries, Shiv K.Berry, Mohd.Ismail Abd.Karim and Asiah Mohd.Zain (penyunting), 1982,456hlm. M\$60.00 ISBN 67-9952-01-0.
6. Engineering Towards Progressive Agriculture, Fakrul Razi Ahmadun et al.(penyunting) Sept. 1983, 202hlm. M\$ 20.00.
7. Freshwater Zooplankton in Malaysia B.A.G.Idris (pengarang) 1983,153hlm. M\$24.00(kulit tebal) ISBN 967-9952-00-2.
8. Freshwater Fishes of Peninsular Malaysia, A.K.Mohammad Mohsin and Mohd.Azmi Ambak (pengarang), 1983,284hlm. M\$40.00(kulit nipis) dan M\$50.00(Kulit tebal) I SBN 967-9952-14-2 dan ISBN 967-9952-3-4.
9. Quantitative Relationship Between Minerology and Properties of Tropical Soils, Eddy Tessens dan Shamsuddin Jusop (pengarang),1983, 190hlm. M\$45.00 ISBN 967- 9 952-16-9.
10. Improving Extension Strategies for Rural Development, Sulaiman M. Yassin, Irene Beavers dan Ibrahim Mamat, 1984, 307hlm., M\$34.00,ISBN967-9952-19-3.
11. Kultur Ikan, C.F.Hickling(Pengarang), Umar Salleh(Penterjemah)1985, 367hlm. M\$32.00(Kulit nipis) M\$36.00(Kulit tebal) ISBN 967-9952-24-X,dan ISBN 967-9952-53-1.
12. Advances in Soil Research In Malaysia, A. M. Moktaruddin, H. Aminuddin dan W.T. Chow (penyunting) 1985, 361hlm. M\$15.00, ISBN 967-9952-25-8.
13. Biological Control in the Tropics, M.Y.Hussein, A.G.Ibrahim (penyunting), 1986, 516hlm. M\$15.00, ISBN 967-9952-26-6.
14. A Modular Training Programme For Development Managers, Sulaiman M. Yassin, Saidin Teh dan Asma Ahmad(penyunting), 1986.398hlm M\$20.00. ISBN 967-9952-27-4
15. Tumbesaran & Pengembangan Tumbuhan edisi kedua, A. Carl Leopold & P. E. Kriedmann (Pengarang) Mohamad Md. Ali, Mohd. Zain Karim & Raja Muhamad Raja Harun (penterjemah) 1986, 610hlm..\$ 65.00 (Kulit nipis), ISBN 967-960-002-5
16. Patologi Tumbuhan Mikrobial, P. J. Whitney (pengarang), Sariah Meon dan Wan Zainun Wan Nik (penterjemah) 1986, 162 hlm, \$20.00 Kulit nipis, ISBN 967-9952-31-2
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18. Field Legend for Soil Surveys in Malaysia, S.Paramanathan(pengarang).1987, 92hlm. M\$11.00. Kulit nipis, ISBN 967-9952-35-5.

BIBLIOGRAFI PERTANIAN MALAYSIA

Bibliografi ini mengandungi bahan-bahan terbitan mengenai pertanian Malaysia yang telah diindeks dari Jun 1986 - Aug 1986 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 Pengelasan AGRIS seperti di bawah ini.

Kod	Perkara	
A	PERTANIAN AM (AGRICULTURE IN GENERAL)	
A01 -	Pertanian-aspek am (Agriculture-General aspects)	E16 - Ekonomi pengeluaran (production economics)
A50 -	Penyelidikan pertanian (Research)	E20 - Penyusunan, pentadbiran dan pengurusan perusahaan pertanian atau ladang (Organization, administration and management of agricultural enterprises or farms)
B	GEOGRAFI DAN SEJARAH (GEOGRAPHY AND HISTORY)	E21 - Industri pertanian (Agro-industry)
B10 -	Geografi (Geography)	E40 - Koperasi (Cooperatives)
B50 -	Sejarah (History)	E50 - Sosiologi desa (Rural sociology)
C	PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT (EDUCATION, EXTENSION AND INFORMATION)	E51 - Penduduk desa (Rural population)
C10 -	Pendidikan (Education)	E70 - Niaga, pemasaran dan edaran (Trade, marketing and distribution)
C20 -	Pengembangan (Extension)	E71 - Niaga antarabangsa (International trade)
C30 -	Dokumentasi dan maklumat (Documentation and information)	E72 - Niaga dalam negeri (Domestic trade)
D	PENTADBIRAN DAN PERUNDANGAN (ADMINISTRATION AND LEGISLATION)	E73 - Ekonomi pengguna (Consumer economics)
D10 -	Pentadbiran awam (Public administration)	E80 - Ekonomi rumahtangga, industri dan kraf (Home economics, industries and crafts)
D50 -	Perundangan (Legislation)	F SAINS TUMBUHAN DAN PENGELUARAN (PLANT SCIENCE AND PRODUCTION)
E	EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA (ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY)	F01 - Perusahaan tanaman (Crop husbandry)
E10 -	Ekonomi dan polisi pertanian (Agricultural economics and policies)	F02 - Pembiakan tumbuhan (Plant propagation)
E11 -	Ekonomi dan polisi tanah (Land economics and policies)	F03 - Pengeluaran biji benih (Seed production)
E12 -	Buruh dan pekerjaan (Labour and employment)	F04 - Membaja (Fertilizing)
E13 -	Pelaburan, kewangan dan kredit (Investment, finance and credit)	F06 - Pengairan (Irrigation)
E14 -	Ekonomi dan polisi pembangunan (Development economics and policies)	F07 - Penyuburan tanah (Soil cultivation)
		F08 - Corak dan sistem penanaman (Cropping patterns and systems)
		F30 - Genetic dan pembiakbaikan tumbuhan (Plant genetics and breeding)
		F40 - Ekologi tumbuhan (Plant ecology)
		F50 - Struktur tumbuhan (Plant structure)
		F60 - Fisiologi dan biokimia tumbuhan (Plant physiology and biochemistry)
		F61 - Fisiologi tumbuhan - pemakanan (Plant physiology - Nutrition)
		F62 - Fisiologi tumbuhan - pertumbuhan dan perkembangan (Plant physiology - Growth and development)
		F63 - Fisiologi tumbuhan - pengeluaran (Plant physiology - Reproduction)
		F70 - Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)

H	PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)	L02	- Makanan ternakan (Animal feeding)
H01	- Perlindungan tumbuhan - Aspek am (Protection of plants - general aspects)	L10	- Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
H10	- Perosak tumbuhan (Pests of plants)	L20	- Ekologi haiwan (Animal ecology)
H20	- Penyakit tumbuhan (Plant diseases)	L40	- Struktur haiwan (Animal structure)
H50	- Pelbagai penyakit tumbuhan (Miscellaneous plant disorders)	L50	- Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
H60	- Rumpai dan pengawalan rumpai (Weeds and weed control)	L51	- Fisiologi haiwan - pemakanan (animal physiology - Nutrition)
J	TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/ TUAI POSTHARVEST TECHNOLOGY)	L52	- Fisiologi haiwan - pertumbuhan dan perkembangan (Animal physiology - Growth and development)
J10	- Pengawasan, pengangkutan, storan dan perlindungan, hasil pertanian (Handling, transport, storage and protection of agricultural products)	L53	- Fisiologi haiwan - pengeluaran (Animal physiology - reproduction)
J11	- Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)	L60	- Taksonomi dan geografi haiwan (Animal taxonomy and geography))
J12	- Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)	L70	- Sains Veterinar dan Kesihatan (Veterinary science and hygiene)
J13	- Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)	L72	- Perosak haiwan (Pests of animals)
J14	- Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)	L73	- Penyakit-penyakit haiwan (Animal diseases)
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)	L74	- Pelbagai penyakit haiwan (Miscellaneous animal disorders)
K	PERHUTANAN (FORESTRY)	M	PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)
K01	- Perhutanan -Aspek am (Forestry - general aspects)	M01	- Perikanan dan akuakultur - aspek am (Fisheries and aquaculture - general aspects)
K10	- Pengeluaran perhutanan (Forestry production)	M11	- Pengeluaran perikanan (Fisheries production)
K11	- Kejuruteraan hutan (Forest engineering)	M12	- Pengeluaran dan pengurusan akuakultur (Aquaculture production and management)
K50	- Pemprosesan hasil hutan (Processing of forest products)	M40	- Ekologi akuatik (Aquatic biology)
K70	- Kerosakan dan perlindungan hutan (Forest injuries and protection)	N	JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINERY AND ENGINEERING)
L	SAINS PETERNAKAN, PENGELUARAN DAN P PERLINDUNGAN)	N01	- Kejuruteraan pertanian (Agricultural engineering)
L01	- Peternakan (Animal husbandry)	N02	- Pertapakan ladang (Farm layout)
		N10	- Struktur pertanian (Agricultural structures)
		N20	- Jentera dan peralatan pertanian (Agricultural machinery and equipment)
			SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)
		P01	- Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)

P05 - Sumber tenaga dan pengurusan (Energy resources and management)	ternakan (Processing of non-food or non-feed agricultural products)
P06 - Pembaharuan sumber tenaga (Renewable energy resources)	Q70 - Pemprosesan sisa-sisa pertanian (Processing of agricultural wastes)
P07 - Sumber tenaga yang bukan berbentuk pembaharuan (Non-renewable energy resources)	Q80 - Pembungkusan (Packaging)
P10 - Sumber air dan pengurusan (Water resources and management)	S PEMAKANAN MANUSIA (HUMAN NUTRITION)
P11 - Pengairan (Drainage)	S01 - Pemakanan manusia - aspek am (Human nutrition- - general aspects)
P30 - Sains tanah dan pengurusan (Soil science and management)	S20 - Fisiologi pemakanan manusia (Physiology of human nutrition)
P31 - Kajian dan pemetaan tanah (Soil surveys and mapping)	S30 - Sajian makanan dan penyakit-penyakitnya (Diet and diet-related diseases)
P32 - Kimia dan genesis tanah (Soil chemistry and genesis)	S40 - Program-program pemakanan (Nutrition programmes)
P33 - Kimia dan fizik tanah (Soil chemistry and physics)	T PENCEMARAN (POLLUTION)
P34 - Biologi Tanah(soil biology)	T01 - Pencemaran (Pollution)
P35 - Kesuburan tanah (Soil fertility)	U METODOLOGI (METHODOLOGY)
P36 - Hakisan, pemuliharaan dan pennebusgunaan tanah (Soil erosion, conservation and reclamation)	U10 - Kaedah matematik dan statistik
P40 - Meteorologi dan kaji iklim (Meteorologi and climatology)	U30 - Kaedah penyelidikan (Research methods)
Q PEMROSESAN HASIL PERTANIAN (PROCESSING OF AGRICULTURAL PRODUCTS)	U40 - Kaedah kajian (Surveying methods)
Q01 - Sains & teknologi makanan (Food science and technology)	
Q02 - Pemprosesan dan pengawetan makanan (Food processing and preservation)	
Q03 - Pencemaran dan toksikologi makanan (Food contamination and toxicology)	
Q04 - Kandungan makanan (Food composition)	
Q05 - Makanan penampung (Food additives)	
Q51 - Teknologi makanan ternakan (Feed technology)	
Q52 - Pemprosesan dan pengawetan makanan ternakan (Feed processing and preservation)	
Q53 - Pencemaran dan toksikologi makanan ternakan (Feed contamination and taxicology)	
Q54 - Kandungan makanan ternakan (Feed composition)	
Q55 - Makanan penampung ternakan (Feed additives)	
Q60 - Pemprosesan hasil pertanian yang bukan makanan manusia dan bukan makanan	

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Istilah Pertanian Pilihan

ISTILAH PERTANIAN PILIHAN

Bahasa Inggeris

Bahasa Malaysia

A

absorber	-	bahan penyerap/ absorber
<i>Acalypha siamensis</i>	-	teh kampung/hutan (<i>Acalypha siamensis</i>)
<i>acanthus</i>	-	akantus
acroscopic	-	akroskopik
aerobiology	-	aerobiologi
agricultural chemistry	-	kimia pertanian
agricultural extension	-	pengembangan/ penyuluhan pertanian
agro-industry	-	industri pertanian
air-space	-	ruang udara
algae	-	alga
anatomy	-	anatomi
animal pest perosak	-	binatang/haiwan
annular	-	cecincin/anular
anthracnose	-	antraknos/penyakit daun <i>Colletotrichum</i>
apterous	-	tak berkepak/apterus
artificial pollination	-	pendebungaan buatan
autecology	-	autekologi

avocado - avokado

B

bacteriology	-	bakteriologi
barley	-	barli
barnyard manure	-	baja kandang
basic dressing	-	pembajaan asas
BC Soil	-	tanah BC
bean fly (<i>Melanagromyza phaseoli</i>)	-	lalat kacang (<i>Melanagromyza phaseoli</i>)
beef cattle	-	lembu daging
bend terracing	-	teres tangga
bifoliate	-	dwidan/bifoliat
binjai	-	binjai
biocide	-	biosid
biological mineralization	-	pemineralan biologi
bottom land	-	tanah daratan
bouea tree/plum mango (<i>Bouea macrophylla</i>)	-	remia/rumenia (<i>Bouea macrophylla</i>)
branching	-	berdahan/bercabang
brooder	-	alat pengeram; tempat mengeram
brown earth	-	bumi coklat/perang
brown soil	-	tanah coklat/perang
budding	-	pembiakan mata tunas/cantuman
bulblet	-	salur bebawang
bumble bee (fam. <i>Apidae</i>)	-	kumbang bumble (fam. <i>Apidae</i>)
bushy tree)	-	rimbun (pokok)

C			economic life	-	jangka umur ekonomi
cactus	-	kaktus	F		
camara	-	kayu camara	farm animal	-	ternakan ladang
carpenter bee (large black) (Xylocopa latipes)	-	kumbang kayu hitam (Xylocopa latipes)	farm implement	-	perkakas ladang
carpet grass (Axonopus compressus)	-	rumput hampar (Axonopus compressus)	feed conversion ratio	-	nisbah penukaran makanan/kecekapan makanan
caudal fin	-	sirip ekor	fine earth	-	tanah halus
cereal crop	-	tanaman bijirin	fish meal	-	serbuk ikan
chemical nature	-	keadaan kimia	flat land	-	tanah datar
choy sam (Brassica rapa)	-	sawi bunga (Brassica rapa)	fowl pox	-	cacar ayam
chrysalis (butterfly)	-	kepompong (kupu-kupu)	G		
clay pan	-	papar tanah liat/geluh	garden croton/ codiaeum (Codiaeum variegatum)	-	puding (Codiaeum variegatum)
climber	-	pemanjat	geological formation	-	kejadian geologi
coagulant	-	pembeku/koagulan	green manure	-	baja hijau
coconut skipper (Hidari iravi)	-	kelolong nyiur/ kelapa (Hidari iravi)	H		
common kingfisher (Alcedo attis)	-	burung raja udang raya (Alcedo attis)	hard wood	-	kayu keras
crop ecology	-	ekologi ujian (padi)	hemp rope	-	tali hem
D			henna tree (Lawsonia inermis)	-	pokok inai (Lawsonia inermis)
deep water rice	-	padi apung	highland tea	-	teh bukit
domestic fowl	-	ayam ternak	horizontal branches	-	dahan lintang
drier	-	pengering	house plant	-	pokok hias-rumah
dry padi (hill padi)	-	padi huma/bukit	hypomeces weevil (Hypomyces squamosus)	-	kekabuh debu/ kekabuh belangkas (Hypomyces squamosus)
E					
earth crust	-	kerak bumi			

I

incineration of cells	-	penunuan sel
insect pollinated	-	pendebungaan serangga

K

kangkung/water convolvulus (Ipomoea reptans)	-	kangkung (Ipomoea reptans)
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L

land use	-	kegunaan tanah
land utilization	-	penggunaan tanah
lowland tea	-	teh tanah pamah

M

main crops	-	tanaman utama
manila hemp/abaca (Musa textilis)	-	pisang tali/hem (Musa textilis)
maturation period	-	tempoh matang
mechanical damage	-	rosak secara sentuhan
mining lease	-	pajak perlombongan

N

near dryness	-	hampir kering
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O

organic manure	-	baja organik
ornamental tree	-	pokok hiasan

P

pasture	-	pastura
plant	-	tumbuhan; loji
plant disease	-	penyakit tumbuhan
planting hole	-	lubang menanam
potted plant	-	pokok pasu

R

rotational crop	-	tanaman giliran
roughage	-	pelawas

S

seedling	-	anak benih; bibit
slough podzol	-	podzol lembah
soil map	-	peta tanah
sow	-	babi betina tua
sowing medium	-	medium semaian

T

tapping system	-	sistem torehan
tembusu (Fargraea fragrans)	-	tembusu/tembesu (Fargraea fragrans)
tree breeding	-	pembiakbaik pokok

V

valley	-	lembah
vertical boring	-	penebukan tegak
vertical chiselling	-	pemahatan tegak
vertical paring	-	pemahatan tegak

Kalendar Kongres Pertanian

Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antarabangsa mengenai pertanian dan perkara-perkara berkaitan dengannya yang akan diadakan dari bulan Februari 1988 hingga bulan Disember 1988. Untuk melengkapkan lagi senarai ini, anda dipelawa untuk melaporkan apa juga maklumat mengenai seminar, konferens dan bengkel-bengkel pertanian lain yang tidak termasuk dalam senarai ini.

Februari 2 - 3

Judul : Seminar on 'Advances in Food Research in Malaysia - II'
Tempat : Pusat Pengembangan dan Pendidikan Lanjutan
Anjuran : Fakulti Sains Makanan dan Bioteknologi, UPM.

Mac 14 - 16

Judul : First International Symposium on Fruit Flies in the Tropics
Tempat : Kuala Lumpur (Hotel Merlin)
Anjuran : MARDI; MAPPS

Mac 29 - 30

Judul : National Seminar on Secondary and Micronutrient in Malaysian Agriculture
Tempat : Kuala Lumpur
Anjuran : Malaysian Society of Soil Science

Mac 29 - 30

Judul : Trade and Development: Problems, Strategies and Prospects for Malaysia in the 1990's
Tempat : UPM
Anjuran : Jabatan Ekonomi, UPM

Jun 21 - 23

Judul : Malaysian Agricultural Policy: Issues and Direction
Tempat : UPM
Anjuran : Pusat Kajian Dasar Pertanian, UPM; PETA

Nov. 12- 13

Judul : Towards Developing a Better Technological Base for SMEs in Malaysia
Tempat : UPM
Anjuran : Pusat Pembangunan Perusahaan Kecil, UPM; MARDEC

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2.	Abstrak Buah-buahan Malaysia (Malaysian Fruit Abstracts) Nov. 1980	\$10.00
3.	Abstrak Penukaran Biojisim Kepada Bahan Tenaga. (Abstracts on Bioconversion for Fuel Production). Okt. 1981	\$10.00
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17.	Bibliography of Malaysian Soils, 1981	\$10.00
18.	Hasil-hasil Hutan Malaysia dan Kegunaannya: sebuah bibliografi. (Malaysian Forest Products & Their Utilization: a bibliography). Okt. 1979	Percuma
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