

- Carried out by a combination of crawler tractor-winch lorry
- Reduce impact logging (ground skidding) being carried out in Peninsular Malaysia and in the state of Sabah
- Low impact logging (helicopter logging) in the state of Sarawak is also being implemented
- Adopted standard road specifications and forest harvesting rules and guidelines to mitigate the adverse impacts of forest harvesting (forest road construction, drainage, tree marking and direction of felling)
- Since 1957, Malaysia had established 270,648 ha of plantation forests and a target of 2.2 million ha has been earmarked for future planting

- Hence, in 1994 Malaysia had developed a set of Malaysian Criteria and Indicators for Sustainable Forest Management (MC&I) at the national and forest management unit levels, based on the earlier ITTO Criteria for the Measurement of Sustainable Tropical Forest Management (1992)
- However, with the adoption of the new ITTO documents on Criteria and Indicators for Sustainable Management of Natural Tropical Forests and the Manual for the Application of Criteria and Indicators for Sustainable Management of Natural Tropical Forests (Part A - National Indicators and Part B - Forest Management Unit Indicators) action was taken to revise the MC&I
- Revision of the MC&I was coordinated by the Malaysian Timber Certification Council (MTCC)

1. INTRODUCTION

- Total Forested Land 19.54 million ha (59.5%)
- Total Land Area 32.83 million ha
- Permanent Reserved Forests (PRFs)
 14.45 million ha (44.0%)
 - Production Forest : 10.96 million ha (75.8%)
 - Protection Forest : 3.49 million ha (24.2%)
- Totally Protected Areas 5.43 million ha (16.5%)
- Inland forests are selectively harvested based on prescribe minimum cutting limits with cutting cycles varying from 25-55 years
- Mangrove Forests are clear-felled with cutting cycles varying between 20 to 30 years
- Malaysia had also established 32,672 ha of rattan and 2,974 ha of forest fruit trees at the end of 2002
- Currently, efforts are being taken to conserve and establish medicinal plants
- 2. <u>DEVELOPMENT OF CRITERIA AND</u> <u>INDICATORS</u>
- Established a National Committee on Sustainable Forest Management in Malaysia in February 1994
- To co-ordinate the implementation of all the activities required to ensure that the forest resources in Malaysia are sustainably managed

- Preliminary meeting held among the Forestry Departments of Peninsular Malaysia, Sabah and Sarawak in July 1999
- Agreed on a common set of Criteria and Indicators for Sustainable Forest Management for Malaysia, both at the national and forest management unit levels
- Based on the ITTO Criteria and Indicators for Sustainable Management of Natural Tropical Forests
- Also Activities required to operationalize these criteria and indicators
- Based on the 'Action To Be Taken' as contained in the ITTO Manual for the Application of Criteria and Indicators for Sustainable Management of Natural Tropical Forests (Parts A and B)

•	Followed by sub-national consultations with interested parties to identify appropriate Standards of Performance for each of the Activities	
•	Conducted by the Forestry Departments of Peninsular Malaysia, Sabah and Sarawak in their respective regions in August 1999	
•	Regional Standards of Performance were then integrated into a draft MC&I for Malaysia	

- Through a meeting held between the 3 Forestry Departments and co-ordinated by the MTCC in September 1999
- Draft MC&I was then tabled at a national-level consultation held in October 1999
- 85 organizations and companies, representing interested parties such as the timber industry, social and environmental non-governmental organizations, trade unions, women's organizations, academic/research institutions and government agencies, were invited to attend

.	111 participants representing 58 organizations, including 2 representatives from the FSC participated
	Malaysia adopted a set of MC&I for assessing forest management practices in all its forest management units
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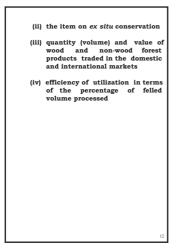
Criteria	Indicators	Activities	Standards of Performance+
I. Enabling Condition for Sustainable Forest Management	9	31	20
2. Forest Resource Security	5	22	17
5. Forest Ecosystem Health and Condition	5	20	13
4. Flow of Forest Produce	12	37	31
5. Biological Diversity	8	25	22
5. Soil and Water	9	26	29
7. Economics, Social and Cultural Aspects	16	39	38
Total : 7	64	200	170

Criteria, Indicato erformance for Sus the Forest Manage	stainable	Forest M	anagement at
Criteria	Indicators	Activities	Standards of Performance+
1. Enabling Condition for Sustainable Forest Management	8	26	17
2. Forest Resource Security	5	22	17
3. Forest Ecosystem Health and Condition	3	12	9
4. Flow of Forest Produce	12	37	31
5. Biological Diversity	7	21	18
6. Soil and Water	9	26	29
7. Economics, Social and Cultural Aspects	12	27	29
Total : 7	56	171	150

Adaptation of ITTO Criteria and Indicators

- Added a number of elements to the ITTO's indicators at both the national and forest management unit levels, such as the rights of forest workers and mortality rate, as well as in addressing gender issue
- Also included seven additional indicators/items from those proposed by the ITTO to be used only at the national level to the forest management unit level, among others, those dealing with:
 - (i) laws, policies and regulations
 - (ii) the Bali Partnership Fund
 - (iii) statistics of protected areas in each forest type
 - (iv) percentage of total number of protected areas connected by biological corridors or 'stepping stones' between them

- (v) ratio of domestic log production to the processing capacity of wood-based industries
- However, omitted two of the ITTO's indicators from the MC&I at both the national and forest management unit levels, namely:
- (i) quantity (volume) and value of wood and non-wood forest products for subsistence use, including fuelwood
- (ii) number of agreements involving local communities in comanagement responsibilities
- Also omitted four indicators/items at the forest management unit level although they have been proposed by the ITTO, namely:
- the percentage of original range occupied by selected endangered, rare and threatened species



IMPLEMENTATION OF CRITERIA AND INDICATORS The criteria, indicators, activities, and the standards of performance formulated at the national level would be used for reporting progress towards achieving sustainable forest management, especially to the ITTO and UNFF At the forest management unit level they will be used by the Forestry Departments to monitor and assess progress at the field level, and for undertaking forest management third party assessors An assessment on the availability of information was undertaken and it was found that information available at both the national and forest management unit levels include the foreignment since the set of th

laws, policies and

following : (i) forest

the

regulations

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	inancial xpenditures	resources	and
	xtent of ncluding plan		
F b	extent of Reserved Fo oundaries d protected area	rests, ir emarcatio	cluding
b	xtent of fores y human acti atural causes	ivities and	
r	xtent of te ights doo ecognized		
	onsultative a nechanisms	and partic	cipatory
			14

(xv)	extent of forest area harvested and				
silviculturally treated					

(xvi) volume of log produced, processed, exported and consumed domestically

- However, currently more studies / research are being undertaken on a number of indicators to enable their full application, as follows:
- (i) two out of 64 indicators at the national level
- (ii) ten out of 53 indicators at the forest management unit level
- Hence, a phased approach has been adopted in Malaysia to realize the full implementation of the criteria and indicators for sustainable forest management, at both the national and forest management unit levels

(x) pre - planning, post - planning and harvesting procedures, including forest road construction and buffer strips for river protection (xi) forest management plan at the forest management unit

(ix) stand and stocking level of

resources

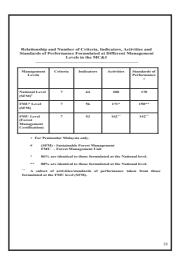
forest

- level (xii) management and silvicultural
- prescriptions
- (xiii) growth and mortality rates
- (xiv) procedures to control encroachment, fire, pest and diseases, exotic plants and animals, use of chemicals etc.

4. FOREST CERTIFICATION

- In implementing forest management certification, Malaysia has addressed the following key issues:
 - (i) the criteria, indicators, activities and standards of performance to be used for assessing sustainable forest management at both the national and forest management unit levels, as well as for forest management certification - the MC&I
- (ii) the forest management unit which will be considered as the appropriate level of management for forest management certification - each state in Peninsular Malaysia, as an example
- (iii) the mechanisms for monitoring and evaluation of sustainable forest management practices – the Task Force

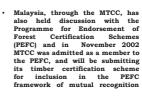
(iv) the nature of certification authority and its mode of establishment and funding - the MTCC
A sub-set comprising 7 criteria, 53 indicators, 162 activities and 142 standards of performance formulated at the forest management unit level was used for assessing sustainable forest management



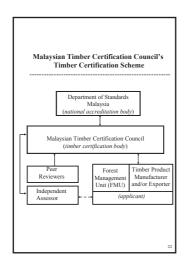
- An independent third party assessor, SGS (Societe Generale de Surveillance) Malaysia Sdn. Bhd. was appointed to assess 8 forest management units, namely the states of Selangor, Pahanag, Terengganu, Johor, Kedah, Perak and Negeri Sembilan in 2000 and 2001, and in Kelantan in 2002 by SIRIM QAS Sdn. Bhd./Scientific Certification System (SCS)
 In the state of Sabah, the Deramakot Forest Reserve (55,084 ha) was certified in July 1997 under the FSC Principles and Criteria for Forest
 - In the state of Sabah, the Deramakot Forest Reserve (55,084 ha) was certified in July 1997 under the FSC Principles and Criteria for Forest Management (P&C) and the MC&I, while a forest concessionaire, the Perak Integrated Timber Complex (ITC) Sdn. Bhd. in the state of Perak was also certified under the FSC P&C in July 2002

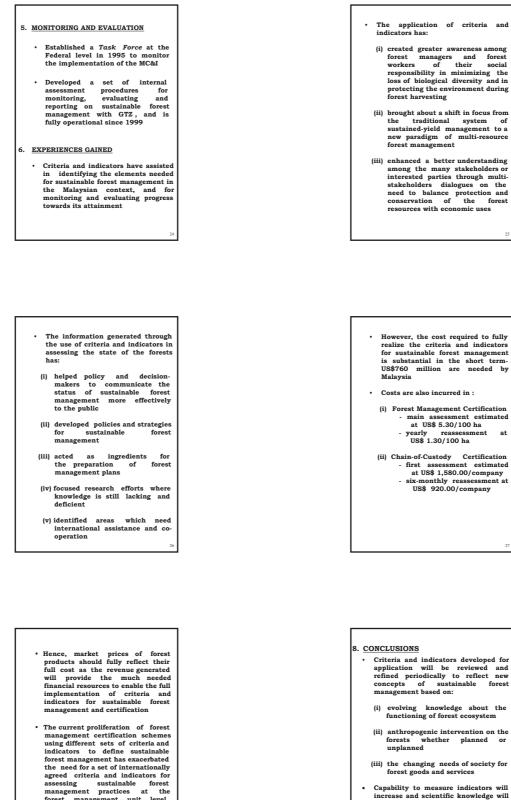


Malaysia, through the MTCC, has held discussion with the FSC since 1999 and had adopted a set of MC&I entitled "Malaysian Criteria and Indicators for Forest Management Certification (MC&M)" dated 30 October 2002 which was technically compatible with the FSC P&C and will replace the current MC&I in January 2005



Currently, Malaysia is leading the process to develop a Pan ASEAN Timber Certification Scheme based on the ASEAN Regional Criteria and Indicators for Sustainable Management of Natural Tropical Forests which were developed from the ITTO Criteria and Indicators for Sustainable Management of Natural Tropical Porests





- (iii) the changing needs of society for forest goods and services
- Capability to measure indicators will increase and scientific knowledge will improve about the nature of 'best' indicators to assess sustainability of the forest resources

forest management unit level, or at the very least an international framework for their mutual recognition

utual recognition

- The level of management will be refined once the current silvicultural management systems are further developed for application at a lower management level, perhaps at the forest district level, forest reserve level or even at the compartment level level
- GTZ project on :

Sustainable Forest Management and Conservation in Peninsular Malaysia which is involved in:

(i) the refinement of the current forest management systems

(ii) the improvement of silvicultural practices

(iii) the development of a cost-effective forest planning system for application at the operational level

The implementation of timber certification will continue to be actively pursued to ensure market access of Malaysian timber product, especially in environmentally sensitive markets •

Since 1997 Malaysia has been organizing training courses, workshops and seminars involving staff of the Forestry Departments, as well as forest managers and workers from the logging and the wood-based industries of their roles and responsibilities in implementing the MC&I and the MTCC's Timber Certification Scheme, including Chain-of-Custody Certification and Forest Management Certification, and these will continue to be organized

THANK YOU