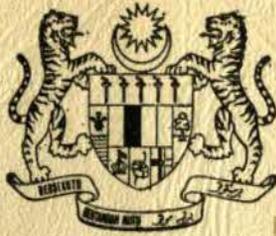


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LAND CAPABILITY CLASSIFICATION REPORT  
STATE OF PAHANG

Gov. OF MALAYSIA.

TECHNICAL SUB-COMMITTEE  
ON  
LAND CAPABILITY CLASSIFICATION

ECONOMIC PLANNING UNIT  
PRIME MINISTER'S DEPARTMENT  
MALAYSIA  
AUGUST, 1969

LAND CAPABILITY CLASSIFICATION REPORT  
PAHANG STATE  
STATISTICAL SUMMARIES

Prepared from Land Alienation and Gazettement, and Natural Resource Survey material supplied by Federal or State Departments of Survey, Land, Mines, Agriculture, Forest, Geological Survey, Game, Aborigines, Veterinary, Drainage and Irrigation, Public Works, and the National Electricity Board. Mechanical data processing undertaken by the Department of Statistics. Compiled under the direction of the Technical Sub-Committee on Land Capability Classification by the Natural Resources Section of the Economic Planning Unit, Prime Minister's Department.

ECONOMIC PLANNING UNIT  
PRIME MINISTER'S DEPARTMENT  
MALAYSIA

1/1967  
(REPRINTED 1969)

LAND CAPABILITY CLASSIFICATION REPORT

PAHANG STATE

STATISTICAL SUMMARIES

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LAND CAPABILITY CLASSIFICATION REPORT  
PAHANG STATE  
STATISTICAL SUMMARIES

INTRODUCTION:

As part of a programme of land capability classification for West Malaysia, prepared by the Technical Sub-Committee for Land Capability Classification of the N.D.P.C., land capability classification studies of the eight districts in the State of Pahang were carried out during the later part of 1965 and in 1966. This report summarises the results of these studies for the State as a whole, and includes statistical summaries prepared from the various map categories by a process of punch-carding and mechanical processing.

The aim has been to provide an appraisal of the salient features of the present pattern of land use and the more important natural resources, and to obtain a planimetric measure of the extent of these resources. A broad appreciation is also made of the opportunities for future development of the natural resources, which could lead to the establishment of a sensible pattern of land use within a sound long-term conservation context.

This report makes no pretence at being a detailed study, and it does not present a plan of development. Its objectives are to draw attention to the possibilities for future natural resource use and land development, and to provide some of the factual data necessary for sound policy formulation and planning purposes in these fields.

The data presented in this report reflect the land use or natural resource evaluation at the time of compilation of the corresponding land use or natural resource maps. The compilation period extended from late 1964 through to August 1966, with the bulk of the material collected towards the end of that period.

PRESENT LAND UTILISATION:

The pattern of land use in Pahang at the present day is broadly represented in map 2 attached to this report. This map, which is on a scale of 1:500,000 (1 inch to 7.89 miles), has been compiled by reduction from larger scale maps for each of the eight districts, and shows the boundaries of the more important alienation and gazettelement groups within the State of Pahang. The basic data were supplied by the State Survey Office and the respective district land offices. The map shows the location and extent of land alienated for agriculture, mining, and urban development, and also of those areas which have been gazetted for forest, game, aborigine, malay, veterinary, or other official State or Federal use purposes, while the remaining areas, indicated by the blank spaces in the map, comprise the State land category.

This map, which reflects the legal situation and shows the boundaries of areas covered by deeds of title and gazettelement notices, has been prepared for comparison with the adjoining land capability map (map 1). When making

comparisons between these two maps, it is important to note that map 2 does not necessarily reflect the present use to which the land is being put, so much as the supposed use inferred from the existing date on alienation and gazettelement. For example, some of the land alienated for agriculture may never have been developed for this purpose and still lie idle, or it may have been developed and may since have been abandoned, while other areas, particularly State land, may be subject to illegal cultivation, which of course does not shown on such a map.

Alternatively, a more accurate picture of the present land use situation could be determined from a present land use survey. Such surveys, which are most satisfactorily carried out with the aid of recent aerial photographs, supplemented by ground checking and census, have never been made over any extensive areas of Pahang, and map 2 is considered to be an acceptable alternative to a present land use map under existing circumstances.

A systematic present land use survey of West Malaysia, which includes Pahang, is currently in progress, and when the results of this survey are available, probably in another two years, useful comparisons will be possible between the actual use purposes which will be shown on the new maps; the inferred use as determined from the alienation and gazettelement map; and the possible use as suggested by the land capability map.

The present summary covers the area of mainland Pahang without the island of Tioman or the other smaller islands which form part of Pahang State territory. The total areas of mainland Pahang, as determined by the summation method explained in the appendix, is approximately 8,869,950 acres, or 13,859 square miles. Table I gives the estimated acreages of the land use categories shown in the alienation and gazettelement map.

A prominent feature of both the map and Table I is the large extent of state land, which exceeds 51% of the total area of the State. The second largest category is that of forest reserves which occupy 21% of the total, followed by game reserves, which occupy 9%. Land alienated for agricultural purposes covers an area almost equal in extent to that of the game reserves. Rather less than 7% of the State consists of unalienated Malay reserves, which are situated mainly along the banks of the Sungei Pahang and close to the coast, corresponding with the areas of earliest settlement. About 0.5% of the land is given over to mining leases.

This pattern of major land use categories has been established in the course of a relatively short history of legally enforceable land administration, in conformity with existing and past land use policies, and the extent of the opportunities for further land development can be gauged by comparing this pattern with the pattern of capability shown on the adjoining map, which is derived from the more recently forthcoming data on natural resources. In addition, the occasional disharmony which exists between the two patterns suggests that the policies which conditioned the present pattern will need to be revised if the opportunities for natural resource development are to be maximised, and the future needs of a rising population with higher standards of living are to be satisfied.

TABLE 1\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAH)  
ESTIMATED AREAS OF ALIENATED AND RAZETTED LAND IN ACRES

I.C.T. CARD COLUMN 17 CODE NOS:		0	1	2	3	4	5	6	7	8	
DISTRICT	MUKIM	STATELAND	ALIENATED FOR AGRICULTURE	ALIENATED FOR MINING	MALAY RESERVES (UNALIENATED)	GRAZING RESERVES	ABORIGINE RESERVES	FOREST RESERVES	GAME RESERVES	ALIENATED/RESERVED FOR OTHER PURPOSES	TOTAL
KUANTAN	Penor	38,688	2,898	--	14,904	207	--	--	--	--	56,097
	Beserah	207	6,003	--	--	--	--	1,656	--	--	7,866
	Sungei Karang	19,665	9,936	--	15,525	621	--	22,149	--	--	67,096
	Kuala Kuantan	93,150	34,776	5,175	7,452	207	--	48,852	--	2,898	192,510
	Ulu Lepar	98,739	2,898	1,035	4,347	414	--	98,325	--	--	205,758
	Ulu Kuantan	210,519	4,140	4,140	--	--	--	1,449	--	--	220,248
	DISTRICT TOTAL:	460,360 (61.3%)	60,651 (8.1%)	10,350 (1.4%)	42,228 (5.6%)	1,449 (0.2%)	--	172,431 (23.0%)	--	--	2,898 (0.4%)
BENTONG	Pelangai	62,100	19,665	1,636	3,726	207	--	53,820	--	207	141,381
	Bentong	58,915	49,473	--	414	207	828	59,409	--	1,656	170,982
	Sabat	28,773	54,648	414	--	--	1,242	55,269	--	621	140,967
	DISTRICT TOTAL:	149,888 (33.1%)	123,786 (27.3%)	2,070 (0.5%)	4,140 (0.9%)	414 (neg)	2,070 (0.5%)	168,498 (37.2%)	--	--	2,484 (0.5%)
TEMERLOH	Jenderak	25,047	23,598	--	20,700	--	5,175	33,120	109,296	--	216,936
	Lipat Kajang	--	3,105	--	3,312	--	--	2,404	--	207	8,901
	Kerdau	1,242	12,420	--	621	--	--	16,146	--	--	30,636
	Bangau	--	7,866	--	--	--	--	--	--	--	7,866
	Lebak	--	4,761	--	4,960	--	--	--	--	--	9,729
	Mentakab	1,242	20,286	--	414	--	--	2,070	--	828	24,840
	Perak	6,210	15,752	--	5,382	--	--	25,047	--	621	52,992
	Sanggang	--	16,146	--	6,417	--	--	2,070	--	--	24,633
	Semantan	14,076	31,050	414	24,219	--	--	78,246	28,916	--	186,921
	Songsang	--	3,312	--	3,312	--	--	--	--	--	6,624
	Chenor	39,537	27,531	--	63,756	--	--	134,136	--	207	265,167
	Bertau	26,082	7,038	--	5,796	--	--	--	--	207	38,916
	Dykit Segumpal	--	20,079	--	5,382	--	--	2,898	--	414	28,566
	Triang	44,505	70,587	--	7,245	--	--	13,869	--	--	136,620
	Bera	368,874	8,901	--	20,152	--	--	--	--	--	405,927
DISTRICT TOTAL:	526,815 (36.4%)	272,412 (18.8%)	414 (neg)	179,676 (12.4%)	--	5,175 (0.4%)	310,086 (21.5%)	148,212 (10.3%)	--	2,484 (0.2%)	1,445,274 (100%)
PEKAN	Bebar	391,644	1,035	--	3,312	--	--	53,613	--	--	449,604
	Ganchong	18,216	3,105	--	6,417	621	--	--	--	--	28,359
	Kuala Pahang	--	3,726	--	4,140	--	--	--	1,656	--	9,622
	Langgar	16,146	3,933	--	4,140	--	--	--	--	--	24,219
	Lepar	40,365	3,105	--	27,038	--	--	40,158	--	--	90,666
	Luit	76,797	22,356	1,656	21,114	--	1,449	17,181	--	--	140,553
	Pekan	31,050	7,038	--	4,554	207	621	--	--	1,242	44,712
	Pahang Tua	--	4,968	--	1,863	--	--	--	--	2,404	9,315
	Pulau Rusa	1,242	1,656	--	3,726	--	--	--	--	--	6,624
	Pulau Manis	42,021	3,933	--	9,108	--	--	--	--	--	55,062
	Temai	21,114	2,898	--	4,554	--	--	29,808	--	--	28,566
	Penyor	103,707	8,073	1,035	39,123	--	--	60,651	--	--	181,746
	Endau	130,617	3,312	1,035	2,070	--	207	37,260	--	--	197,685
	Pontian	30,636	2,070	1,035	--	--	--	66,033	--	--	71,208
	Rompin	133,380	1,449	414	--	--	--	283,383	--	--	201,204
	Keratong	504,873	--	5,175	--	--	--	--	--	--	793,431
	Tioman	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Not done
DISTRICT TOTAL:	1,541,736 (66.3%)	72,657 (3.1%)	10,350 (0.4%)	111,199 (4.0%)	828 (neg)	2,277 (neg)	588,067 (25.2%)	5,382 (0.2%)	--	--	2,332,476 (100%)
RAUB	Batu Talam	91,494	7,659	3,105	--	207	--	40,572	--	207	143,244
	Tras	40,635	16,560	6,624	--	--	--	3,519	6,624	621	74,313
	Sega	13,869	14,490	207	2,404	828	--	8,280	--	--	40,158
	Dong	8,901	8,694	--	414	--	--	621	--	621	19,251
	Gali	37,467	45,333	9,108	828	414	--	69,799	--	1,035	163,944
	Semantan Ulu	63,342	14,076	414	--	--	--	2,070	--	--	79,902
	Ulu Dong	32,292	2,898	--	10,143	--	--	2,691	--	--	48,024
DISTRICT TOTAL:	287,730 (50.6%)	109,710 (19.3%)	19,458 (3.4%)	13,869 (2.4%)	1,449 (0.3%)	--	127,512 (22.4%)	6,624 (1.2%)	2,484 (10.4%)	--	568,836 (100%)

I.C.T. CARD COLUMN 17 CODE NOS:		0	1	2	3	4	5	6	7	8	
DISTRICT	MUKIM	STATELAND	ALIENATED FOR AGRICULTURE	ALIENATED FOR MINING	MALAY RESERVES (UNALIENATED)	GRAZING RESERVES	ABORIGINE RESERVES	FOREST RESERVES	GAME RESERVES	ALIENATED/RESERVED FOR OTHER PURPOSES	TOTAL
CAMERON HIGHLANDS	Ringlet	5,382	4,761	-	-	-	-	1,035	-	207	11,385
	Tanah Rata	2,691	414	-	-	-	-	1,656	-	207	4,968
	Ulu Telam	137,034	9,936	-	207	-	-	6,417	-	-	153,594
DISTRICT TOTAL:		145,107 (85.2%)	15,111 (4.9%)	-	207 (0.1%)	-	-	9,108 (5.4%)	-	414 (0.4%)	169,947 (100%)
LIPIS	Kuala Lipis	6,417	5,796	-	-	207	-	12,834	-	1,242	26,496
	Gua	5,589	10,971	207	1,863	-	-	414	-	-	19,044
	Kechau	83,628	4,761	621	-	-	-	5,589	96,462	-	191,061
	Batu Yon	161,460	8,073	1,242	6,624	-	-	16,560	108,675	-	302,634
	Telang	47,610	6,417	621	3,933	-	-	25,875	-	-	84,456
	Penjam	18,837	21,520	207	2,070	207	-	1,449	-	414	44,712
	Budu	3,105	6,003	-	5,175	-	-	-	-	-	14,283
	Ulu Jelai	506,529	2,484	207	-	-	-	-	-	-	509,220
	Tanjong Besar	12,006	9,103	-	10,971	-	-	-	-	-	32,085
	Cheka	50,715	14,904	828	3,312	-	-	40,779	-	-	110,538
DISTRICT TOTAL:		895,896 (67.2%)	90,045 (6.7%)	3,933 (0.3%)	33,948 (2.5%)	414 (neg)	-	103,500 (7.8%)	205,137 (15.4%)	1,656 (0.1%)	1,334,529 (100%)
JERANTUT	Ulu Cheka	31,257	7,699	-	48,024	-	-	-	-	-	86,940
	Burea	9,108	4,761	-	7,280	207	-	8,694	-	-	31,050
	Kelola	828	2,277	-	8,073	-	-	2,070	-	-	13,248
	Tebing Tinggi	16,146	6,003	-	1,656	207	-	-	3,312	621	27,945
	Kuala Tembeling	10,764	3,933	621	-	-	-	30,429	-	207	45,954
	Teh	17,595	4,554	-	207	-	-	414	-	-	22,770
	Pedeh	11,305	8,280	-	2,277	-	-	36,639	-	621	59,202
	Pulau Tawar	64,998	16,146	-	18,630	207	-	104,328	-	207	204,516
	Tembeling	91,080	1,865	-	-	-	-	57,753	156,699	-	307,395
	Ulu Tembeling	373,014	3,726	-	109,917	-	-	226,044	303,462	-	1,016,163
DISTRICT TOTAL:		626,175 (34.5%)	99,202 (3.3%)	621 (neg)	197,064 (11.9%)	621 (neg)	-	466,371 (25.7%)	463,473 (25.6%)	1,656 (neg)	1,815,183 (100%)
STATE TOTAL:		4,633,695 (52.3%)	803,574 (9.1%)	47,196 (0.5%)	582,291 (6.6%)	5,175 (neg)	9,522 (0.1%)	1,945,993 (21.9%)	828,828 (9.3%)	14,076 (0.2%)	8,869,950 (100%)

**\*NOTE:**

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. - = nil or negligible (neg).

MINERAL, SOIL, AND FOREST RESOURCES:

Tables 2, 3 and 4 gives respectively the estimated areas of the various mineral potentiality, soil suitability, and forest productivity categories shown on the corresponding district maps contributed by the Geological Survey, Department of Agriculture, and Forest Department for the purpose of the land capability classification exercise. The mineral potentiality map shows the following four potentiality categories:-

- (1) Current Mining Land - Land covered by current mining leases.
- (2) Potential Mining Land - Land shown by prospecting results or inferred from geological records to contain more than 0.2 kati of cassiterite per cubic yard, or workable surface deposits of other minerals, e.g., iron-ore.
- (3) Possible Mining Land - Land for which present evidence indicates a possible mineral potential but which needs to be more thoroughly examined before commercial development can take place; or unprospected areas which on geological evidence might contain a mineral potential; or unknown areas.
- (4) Non-Mining Land - Land which has been prospected and shown to have no mineral potential, or which on geological evidence is unlikely to have any mineral potential.

Table 2 gives the estimated areas of each of the above categories, at the State, district, and mukim levels. An obvious feature of this table is the concentration of current, potential, and possible mining land to the districts and mukims on the western and eastern sides of the State, compared with the almost barren area running through the centre of the State, and including the whole of Temerloh and Jerantut Districts.

The soil suitability map shows the following five suitability categories:-

- (1) Soils with no limitations to agricultural development.
- (2) Soils with few minor limitations to agricultural development.
- (3) Soils with at least one serious limitation to agricultural development.
- (4) Soils with more than one serious limitation to agricultural development.
- (5) Soils with **at least** one very serious limitation to agricultural development.

Table 3 gives the estimated areas of each of the above categories, at State, district, and mukim levels. The best soils, suited to the widest range of crops, and therefore corresponding to the areas where crop diversification is most likely to succeed, are confined almost entirely to the areas covered by map categories 1 and 2. Areas with category 3 suitability are in general suitable for rubber and one or two other of the more tolerant tree crops, but a cautious approach is recommended in the case of most other crops. Areas covered by categories 4 and 5 are not generally considered suitable for agricultural development according to present practices.

The forest productivity map shows the following four productivity classes:-

- (1) Highly productive forest with a basal area of commercial species of at least 50 square feet, or an approximate equivalence of at least 25 tons of round timber per acre.
- (2) Productive forest with a basal area of commercial species between 35 and 50 square feet, or an approximate equivalence of 15 to 25 tons of round timber per acre.
- (3) Marginal forest with a basal area of commercial species between 20 and 35 square feet, or an approximate equivalence of 10 to 15 tons of round timber per acre.
- (4) Unproductive forest with a basal area of commercial species below 20 square feet or an approximate equivalence of less than 10 tons of round timber per acre.

Table 4 gives the estimated areas of each of the above categories, at State, district, and mukim levels. These figures indicate that some 60% of the total area of the State contains a highly productive, productive or marginally productive forest potential, which is well distributed in all districts. It should be noted that the unproductive category in this table includes those areas in which the forest has been felled to make way for other development purposes as well as those areas where the indigenous or secondary forest is particularly poor in commercial species.

#### LAND CAPABILITY:

The land capability map (map 1) has been compiled from the mineral potentiality, soil suitability, and forest productivity data to show the following classes:-

Class I - Land possessing a high potential for possible mineral development. (The boundary for this class has been taken as the aggregate boundary for the current and potential mining categories on the mineral potentiality maps).

TABLE 2\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF MINERAL POTENTIALITY CATEGORIES IN ACRES

I.C.T. CARD COLUMN 14 CODE NOS:		1	2	3	4	
DISTRICTS	MUKIMS	CURRENT MINING	POTENTIAL MINING	POSSIBLE MINING	NON-MINING	TOTAL
KUANTAN	Penor	--	--	--	56,097	56,097
	Beserah	--	--	--	7,866	7,866
	Sungei Karang	--	--	--	67,896	67,896
	Kuala Kuantan	1,242	7,669	35,397	148,212	192,510
	Ulu Lepar	--	2,691	161,460	41,607	209,758
	Ulu Kuantan	4,554	--	213,831	1,863	229,248
DISTRICT TOTAL:		5,796 (0.8%)	10,350 (1.4%)	10,350 (54.7%)	323,541 (43.1%)	750,575 (100%)
BENTONG	Pelangai	1,656	2,277	40,986	96,462	141,381
	Bentong	--	1,035	42,542	127,305	170,982
	Sabat	621	621	621	129,104	140,967
DISTRICT TOTAL:		2,277 (0.5%)	3,933 (0.9%)	84,249 (18.6%)	362,871 (80.0%)	453,330 (100%)
TEMERLOH	Jenderak	--	--	--	216,936	216,936
	Lipat Kajang	--	--	--	8,901	8,901
	Kerdau	--	--	--	30,636	30,636
	Bangau	--	--	--	7,866	7,866
	Lebak	--	--	--	9,779	9,779
	Mentakab	--	--	--	21,840	21,840
	Perak	--	--	--	52,992	52,992
	Sanggang	--	--	--	24,623	24,623
	Semantan	--	1,035	6,417	179,469	186,921
	Songsang	--	--	--	6,624	6,624
	Chenor	--	--	48,024	217,143	265,167
	Kertau	--	--	--	38,916	38,916
	Bukit Segumpal	--	--	--	28,566	28,566
	Triang	--	--	36,018	108,602	136,620
Bera	--	207	215,280	190,440	405,921	
DISTRICT TOTAL:		--	1,242 (neg)	305,739 (21.2%)	1,138,293 (78.8%)	1,445,274 (100%)
PEKAN	Bebar	--	--	99,981	349,623	449,604
	Ganchong	--	--	--	28,359	28,359
	Kuala Pahang	--	--	--	9,522	9,522
	Langgar	--	--	--	24,219	24,219
	Lepar	--	--	15,732	74,934	90,666
	Luft	828	--	60,651	79,074	140,553
	Pekan	--	--	--	44,712	44,712
	Pahang Tua	--	--	--	9,315	9,315
	Pulau Rusa	--	--	--	6,624	6,624
	Pulau Manis	--	--	--	55,062	55,062
	Temai	--	--	--	28,566	28,566
	Penyor	828	414	49,266	131,238	181,736
	Endau	828	414	107,226	89,217	197,685
	Pontian	1,242	--	32,706	37,260	71,208
Rompin	414	414	73,899	126,477	201,204	
Keratong	4,554	621	584,154	204,102	793,431	
Tioman	not done	not done	not done	not done	not done	
DISTRICT TOTAL:		8,694 (0.4%)	1,863 (neg)	1,023,615 (43.9%)	1,298,304 (55.7%)	2,332,476 (100%)
RAUB	Batu Talam	--	--	109,917	33,327	143,244
	Tras	5,382	621	38,295	30,015	74,313
	Sega	--	--	20,079	20,079	40,158
	Dong	--	--	12,213	7,038	19,251
	Gali	9,729	621	16,767	136,827	163,944
	Semantan Ulu	207	1,449	56,511	21,755	79,902
Ulu Dong	--	--	--	48,024	48,024	
DISTRICT TOTAL:		15,318 (2.7%)	2,691 (0.5%)	253,782 (44.6%)	297,045 (52.2%)	568,856 (100%)

I.C.T. CARD COLUMN 14 CODE NOS:		1	2	3	4	
DISTRICTS	MUKIMS	CURRENT MINING	POTENTIAL MINING	POSSIBLE MINING	NON-MINING	TOTAL
CAMERON HIGHLANDS	Ringlet	--	--	1,035	10,350	11,385
	Tanah Rata	--	--	--	4,968	4,968
	Ulu Telam	--	--	126,063	27,531	153,594
	DISTRICT TOTAL:	--	--	127,098 (74.8%)	42,849 (25.2%)	169,947 (100%)
LIPIS	Kuala Lipis	--	--	7,659	18,837	26,496
	Gua	--	--	1,656	17,888	19,044
	Kechau	--	--	118,404	72,657	191,061
	Batu Yam	1,449	1,449	234,945	64,791	302,634
	Telang	621	--	18,837	64,998	84,456
	Penjam	--	1,449	36,225	7,038	44,712
	Budu	--	--	11,178	3,105	14,283
	Ulu Jelai	207	1,449	332,235	175,329	509,220
	Tanjong Besar	--	207	12,834	19,044	32,085
	Cheka	621	--	20,700	89,217	110,538
DISTRICT TOTAL:	2,898 (0.3%)	4,554 (0.3%)	794,673 (59.5%)	532,404 (39.9%)	1,334,529 (100%)	
JERANTUT	Ulu Cheka	--	--	23,391	63,549	86,940
	Burau	--	--	--	31,050	31,050
	Kelola	--	--	--	13,248	13,248
	Tebing Tinggi	--	--	12,834	15,111	27,945
	Kuala Tembeling	207	207	24,426	21,114	45,954
	Teh	--	--	2,070	20,700	22,770
	Pedeh	--	--	5,382	53,820	59,202
	Pulau Tawar	--	--	99,981	104,535	204,516
	Tembeling	--	--	169,119	138,276	307,395
	Ulu Tembeling	--	--	729,468	286,695	1,016,163
DISTRICT TOTAL:	207 (neg)	207 (neg)	1,066,671 (58.8%)	748,098 (41.2%)	1,815,183 (100%)	
STATE TOTAL:	35,190 (0.4%)	24,840 (0.3%)	4,066,515 (45.8%)	4,743,605 (53.5%)	8,869,950 (100%)	

\*NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. -- nil or negligible (neg).

TABLE 3\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF SOIL SUITABILITY CATEGORIES IN ACRES

I.C.T. CARD COLUMN 15 CODE NOS:		1	2	3	4	5	TOTAL
DISTRICT	MUKIM	NO LIMITATIONS	FEW MINOR LIMITATIONS	ONE SERIOUS LIMITATION	MORE THAN ONE SERIOUS LIMITATION	VERY SERIOUS LIMITATIONS	
KUANTAN	Fenor	--	--	--	56,097	--	56,097
	Beserah	3,933	--	2,070	1,242	621	7,866
	Sungei Karang	7,699	--	13,455	43,677	3,105	67,896
	Kuala Kuantan	49,266	6,624	54,234	60,898	21,528	192,510
	Ulu Lepar	--	99,567	24,840	--	81,351	205,798
	Ulu Kuantan	207	207	83,835	--	135,999	220,248
	DISTRICT TOTAL:	61,065 (8.1%)	106,390 (14.2%)	178,434 (23.8%)	161,874 (21.6%)	242,604 (32.3%)	750,375 (100%)
BENTONG	Pelangai	--	--	84,249	16,767	40,365	141,381
	Bentong	--	36,709	--	--	132,273	170,982
	Sabat	--	47,817	13,662	414	79,074	140,967
DISTRICT TOTAL:	--	86,526 (19.1%)	97,911 (21.6%)	17,181 (3.8%)	251,712 (55.5%)	453,330 (100%)	
TEMERLOH	Jenderak	--	--	134,964	414	81,558	216,936
	Lipat Kajang	--	--	7,866	--	1,085	8,951
	Kerdau	--	--	30,222	--	414	30,636
	Bangau	--	--	7,245	--	621	7,866
	Lebak	--	--	8,073	1,656	--	9,729
	Mentakab	--	--	24,840	--	--	24,840
	Perak	--	--	51,336	828	828	52,992
	Sanggung	--	--	23,805	--	828	24,633
	Semantan	--	--	160,632	--	26,289	186,921
	Songsang	--	--	6,624	--	--	6,624
	Chenor	60,651	19,251	125,856	--	59,409	265,167
	Kertau	19,872	1,242	12,213	--	5,589	38,916
	Bukit Segumpal	5,589	--	22,977	--	--	28,566
	Triang	--	18,837	96,876	18,216	2,691	136,620
Bera	51,957	73,278	140,346	102,051	38,295	405,927	
DISTRICT TOTAL:	138,069 (9.6%)	112,608 (7.8%)	853,875 (59.0%)	123,165 (8.5%)	217,557 (15.1%)	1,445,274 (100%)	
PEKAN	Beban	26,910	2,898	107,019	309,258	3,519	449,604
	Ganchong	--	3,726	621	24,012	--	28,359
	Kuala Pahang	--	--	--	9,522	--	9,522
	Langgar	--	3,519	--	20,700	--	24,219
	Lepar	--	23,184	49,473	5,796	12,213	90,666
	Luit	17,595	40,779	19,458	--	62,721	140,553
	Pekan	--	4,554	--	40,158	--	44,712
	Pahang Tua	--	5,175	--	4,140	--	9,315
	Pulau Rusa	--	2,484	207	3,933	--	6,624
	Pulau Manis	--	9,108	6,210	39,744	--	55,062
	Temai	--	6,624	414	21,528	--	28,566
	Penyor	7,245	37,881	75,141	2,484	58,995	181,746
	Endau	--	35,397	10,557	65,619	86,112	197,685
	Pontian	--	39,537	2,070	27,945	1,656	71,208
	Rompin	--	59,616	32,499	90,045	19,044	201,214
	Kekaton	4,140	280,485	264,960	207	243,639	793,431
	Tioman	not done	not done	not done	not done	not done	not done
	DISTRICT TOTAL:	55,890 (2.4%)	554,967 (23.8%)	568,629 (24.4%)	665,091 (28.5%)	487,899 (20.9%)	2,332,476 (100%)
	RAUB	Batu Talam	--	3,726	19,251	1,656	118,611
Trusmi		--	4,140	5,175	--	64,998	74,313
Soga		3,933	9,936	20,079	--	6,210	40,158
Dong		--	9,936	--	--	9,315	19,251
Gali		1,863	70,794	29,394	--	61,893	163,944
Semantan Ulu		--	3,533	9,315	--	66,654	79,902
Ulu Dong		--	2,070	--	--	45,954	48,024
DISTRICT TOTAL:	5,796 (1.0%)	104,535 (10.4%)	83,214 (14.6%)	1,656 (0.3%)	373,635 (65.7%)	568,836 (100%)	

I.C.T. CARD COLUMN 15 CODE NOS:		1	2	3	4	5	
DISTRICT	MUKIM	NO LIMITATIONS	FEE MINOR LIMITATIONS	ONE SERIOUS LIMITATION	MORE THAN ONE SERIOUS LIMITATION	VERY SERIOUS LIMITATIONS	TOTAL
CAMERON HIGHLANDS	Ringlet	-	-	2,277	1,449	7,659	11,385
	Tanah Rata	-	-	-	-	4,968	4,968
	Ulu Telam	-	-	10,164	3,312	139,518	153,594
	DISTRICT TOTAL:	-	-	13,041 (7.7%)	4,761 (2.8%)	152,145 (89.5%)	169,947 (100%)
LIPIS	Kuala Lipis	-	-	21,835	-	4,761	26,496
	Gua	-	-	18,909	-	1,065	19,044
	Kechau	-	-	120,060	-	71,001	191,061
	Batu Yon	-	-	128,354	-	173,888	302,634
	Telang	-	-	71,208	-	13,248	84,456
	Penjom	3,726	-	36,432	-	4,854	44,712
	Budu	1,449	-	6,831	-	6,003	14,283
	Ulu Jelaf	-	-	134,550	-	374,670	509,220
	Tanjong Besar	-	-	22,770	-	9,315	32,085
	Cheka	2,898	-	78,099	-	33,741	110,538
DISTRICT TOTAL:	8,073 (0.6%)	-	634,248 (47.5%)	-	692,200 (51.9%)	1,334,529 (100%)	
JERANTUT	Ulu Cheka	2,070	14,283	32,292	-	38,295	86,941
	Burau	6,417	-	22,563	-	2,070	31,050
	Kelola	2,070	-	11,178	-	-	13,248
	Tebing Tinggi	3,312	-	6,831	-	17,802	27,945
	Kuala Tembeling	9,315	20,700	4,140	-	11,799	45,954
	Teh	11,385	6,624	2,834	-	2,277	22,770
	Podeh	11,305	3,933	6,003	-	37,881	59,202
	Pulau Tawar	96,048	28,339	21,735	-	58,374	204,516
	Tembeling	114,264	14,490	1,656	-	176,985	307,395
	Ulu Tembeling	209,898	57,578	13,240	-	740,439	1,016,163
DISTRICT TOTAL:	466,164 (25.7%)	140,967 (7.8%)	122,130 (0.7%)	-	1,085,922 (59.8%)	1,815,183 (100%)	
STATE TOTAL:	735,057 (8.3%)	1,106,001 (12.5%)	2,551,482 (28.8%)	973,728 (11.0%)	3,503,682 (39.4%)	8,869,950 (100%)	

\* NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. - = nil or negligible (neg).

TABLE 4\*  
STATE OF PAHANG (EXCLUDING ISLAND TIGUAN)  
ESTIMATED AREAS OF FOREST PRODUCTIVITY CATEGORIES IN ACRES

I.C.T. CARD COLUMN 16, CODE NOS:		1	2	3	4	
DISTRICT	MUKIM	HIGHLY PRODUCTIVE	PRODUCTIVE	MARGINALLY PRODUCTIVE	UNPRODUCTIVE	TOTAL
KUANTAN	Pencor	-	-	3,933	52,164	56,097
	Beserah	-	621	414	6,831	7,866
	Sungai Karang	7,452	3,312	15,318	41,814	67,896
	Kuala Kuantan	15,318	67,275	24,840	85,077	192,510
	Ulu Lepar	49,059	15,111	94,599	46,989	205,758
	Ulu Kuantan	-	98,823	59,823	61,686	220,248
DISTRICT TOTAL:		71,829 (9.6%)	185,056 (24.7%)	198,927 (26.5%)	294,561 (39.2%)	750,375 (100%)
BENTONG	Pelangai	22,977	43,470	42,849	32,085	141,381
	Bentong	-	27,117	48,231	95,634	170,982
	Sabai	14,076	42,642	18,009	66,240	140,967
DISTRICT TOTAL:		37,053 (8.2%)	113,229 (8.2%)	109,089 (24.1%)	193,959 (42.7%)	453,330 (100%)
TENERLOH	Jenderak	120,060	9,522	7,452	79,902	216,936
	Lipat Kajang	3,105	-	-	5,796	8,901
	Kerdau	1,242	11,799	-	17,595	30,636
	Bangau	1,449	-	207	6,210	7,866
	Lebak	-	828	2,691	6,210	9,729
	Mentakab	-	-	-	24,840	24,840
	Perak	13,662	-	3,105	36,225	52,992
	Sanggung	10,557	-	-	14,076	24,633
	Semantan	84,870	46,782	2,691	52,578	186,921
	Songsang	-	-	-	6,624	6,624
	Chencr	115,092	107,847	621	41,607	265,167
	Kertau	1,656	16,974	3,933	16,353	38,916
	Bukit Segumpal	7,245	3,312	7,452	10,557	28,566
	Triang	24,012	-	24,012	88,596	136,620
	Bera	6,624	158,148	94,599	146,556	405,927
DISTRICT TOTAL:		289,574 (27.0%)	355,212 (24.6%)	145,763 (10.2%)	553,725 (38.2%)	1,445,274 (100%)
PEKAN	Bebar	41,814	40,779	18,009	349,002	449,604
	Ganchong	-	-	-	28,359	28,359
	Kuala Pahang	-	-	207	9,315	9,522
	Langgar	-	-	-	24,219	24,219
	Lepar	46,575	-	20,700	23,391	90,666
	Lutit	67,068	31,050	4,767	37,674	140,553
	Pekan	-	-	4,347	40,365	44,712
	Pahang Tua	-	-	1,035	8,280	9,315
	Pulau Rusa	-	-	-	6,624	6,624
	Pulau Manis	2,070	-	2,277	50,715	55,062
	Tenai	-	-	-	28,566	28,566
	Pecoyor	136,813	-	3,726	41,607	181,746
	Endau	56,304	15,939	4,761	120,681	197,685
	Pontian	30,429	414	-	40,365	71,208
	Repin	40,986	12,213	8,280	139,725	201,204
	Keratang	511,497	127,098	19,044	135,792	793,431
Tiguan	not done	not done	not done	not done	not done	
DISTRICT TOTAL:		933,156 (40.0%)	227,493 (9.8%)	87,147 (3.7%)	1,084,680 (46.5%)	2,332,476 (100%)
RAUB	Batu Talam	12,006	14,283	32,499	84,456	143,244
	Tras	-	6,624	11,592	56,097	74,313
	Sega	-	1,035	22,149	15,974	40,158
	Dong	-	1,035	8,487	9,729	19,251
	Gali	3,105	38,088	42,228	80,523	163,944
	Semantan Ulu	5,382	12,213	12,006	50,301	79,902
	Ulu Dong	-	9,901	9,315	29,808	48,024
DISTRICT TOTAL:		20,493 (3.6%)	82,179 (14.4%)	138,276 (24.3%)	327,888 (57.7%)	568,836 (100%)

L.C.T. CARD COLUMN 16 CODE NOS:		1	2	3	4	
DISTRICT	MUKIM	HIGHLY PRODUCTIVE	PRODUCTIVE	MARGINALLY PRODUCTIVE	UN-PRODUCTIVE	TOTAL
CAMERON HIGHLANDS	Ringlet	-	-	-	11,385	11,385
	Tanah Rata	-	-	-	4,968	4,968
	Ulu Telam	-	-	37,674	115,920	153,694
DISTRICT TOTAL:		-	-	37,674 (22.2%)	132,273 (77.8%)	169,947 (100%)
LIPIS	Kuala Lipis	10,350	7,659	828	7,659	26,496
	Gua	-	4,761	-	14,283	19,044
	Kechau	-	131,859	38,502	20,700	191,061
	Batu Yen	3,726	94,185	165,393	39,330	302,634
	Telang	-	53,199	8,073	23,184	84,456
	Penyom	-	16,560	414	27,738	44,712
	Budu	-	9,108	-	5,175	14,283
	Ulu Jelai	2,070	128,931	204,309	173,880	509,220
	Tanjong Besar	1,656	22,356	-	8,073	32,085
Cheka	10,764	49,887	14,283	35,604	110,538	
DISTRICT TOTAL:		28,566 (2.1%)	518,535 (38.9%)	431,802 (32.4%)	355,626 (26.6%)	1,334,529 (100%)
JERANTUT	Ulu Cheka	27,117	46,368	3,519	9,936	86,940
	Burau	-	8,901	10,557	11,592	31,050
	Kelola	-	6,003	1,035	6,210	13,248
	Tebing Tinggi	-	12,627	9,729	5,589	27,945
	Kuala Tembeling	-	33,948	-	12,006	45,954
	Teh	-	10,350	2,484	9,936	22,770
	Pedeh	7,659	32,913	1,656	16,974	59,202
	Hulu Tawar	26,496	79,281	66,447	32,292	204,516
	Tembeling	17,388	187,956	57,339	44,712	307,395
Ulu Tembeling	59,616	343,827	368,253	244,467	1,016,163	
DISTRICT TOTAL:		138,276 (7.6%)	762,174 (42.0%)	521,019 (28.7%)	383,714 (21.7%)	1,815,183 (100%)
STATE TOTAL:		1,618,947 (18.3%)	2,243,880 (25.3%)	1,670,697 (18.8%)	3,336,426 (37.6%)	8,869,950 (100%)

\* NOTE:

1. The estimates shown in the table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error included in the appendix.
3. - = nil or negligible (neg).

Class II - Land possessing a high potential for possible agricultural development with a wide range of crops. (The boundary for this class has been taken as the aggregate boundary of the soil categories having no or few limitations to agricultural development on the soil suitability map, less those areas overlapped by Class I above).

Class III - Land possessing a moderate potential for possible agricultural development, because of a restricted range of crops. (The boundary for this class has been taken as the boundary of the soil category having one serious limitation to agricultural development on the soil suitability maps, less those areas overlapped by Class I above).

Class IV - Land possessing a high potential for possible forest development. (The boundary for this class has been taken as the aggregate boundary for the highly productive, productive, and marginally productive forest categories on the forest productivity maps, less those areas overlapped by classes I, II or III above).

Class V - Land possessing little or no mineral, agricultural, or forest development potential, but suitable for possible alternative development such as: protective forest reserves, water catchments areas, game reserves, recreation, etc. (The boundary for this class has been taken as the boundary for the unproductive forest category on the forest productivity maps, less those areas overlapped by classes I, II or III above).

This classification and map can be used to indicate the broad purposes for which the land should be utilized in order to derive the best economic benefit from the inherent natural resources. A realistic plan of physical development should make allowance for a proportion of the land being used for purposes related to classed lower than that indicated by the capability classification, for nature conservation or aesthetic reasons, while other areas will inevitably have to be used for purposes not included in this classification. An overall plan of development, designed to meet probable demands in the future as well as immediate needs, must use the present land use pattern as a starting point and for planning purposes the land capability map data should therefore be compared with the data for existing alienation.

The boundary lines between the capability groups shown on the attached map are not necessarily accurate in detail. They give the broad pattern of capability only, and it is recommended that more specific information on the relative potentials should be sought before preparing detailed future land use plans concerned with resource development.

In selecting the above classification certain basic assumptions have been made, including the assumed economic preminence of agriculture above forestry, and of mining above agriculture or forestry on an area basis in those areas where a conflict in opportunity may occur, except

where such development would be contrary to accepted conservation practices. It is further assumed that there will be a continuing demand for new mining land, and that this demand will be met largely from the potential mining land category shown on the mineral potentiality map; and also that there will be a continuing need to develop more land for agriculture, with this need being met largely from the unalienated areas shown to have either no, few, or only one serious limitation to agricultural development on the soil suitability map. Similarly, the eventual concentration of the forest industry in those areas containing productive forest and not suitable for mining or agriculture is assumed.

The broad application of these classification criteria to West Malaysia as a whole has already indicated that the area of land subject to mining is likely to increase only by a relatively small amount to an eventual final extent of probably less than 2% of the total area of West Malaysia, while the area of land devoted to agriculture might be increased to almost double the existing figure, and might eventually extend over at least 55% of the country. Even when this expansion is allowed for, it is believed that some 32% of the total area of the country will still consist of productive forest, which will constitute the permanent productive forest estate of the future, while at least a further 10% of the country appears to fall into the permanent protective category and is likely to be conserved in its natural condition for watershed protection, or developed for productive forestry purposes with introduced species.

The land capability situation in respect of the State of Pahang is apparent from table 5 which shows the estimated areas of land falling within the five land capability categories shown on map I. Comparison with table I suggests the extent of the opportunity for further land development in this State. Agriculture obviously presents the greatest opportunity, in area terms, as it appears that the agriculturally utilised land area could be increased more than five fold in comparison with the area presently utilised. A continuing opportunity for forestry is also very apparent, and the data suggests that the permanent area of productive forest estate should be greater than the present gazetted forest acreage figure, with the eventual acreage of forest being almost double the present reserve figure, if the area of non-productive forest were to be included in the final gazetted forest category.

#### WATER RESOURCE:

Other natural resource classification categories having an important bearing on land use and capability include those concerned with water, and maps showing the boundaries of catchments currently being utilised for purposes of potable/industrial, hydro-electric, or irrigation purposes have been prepared by the responsible authorities (Public Works Department, National Electricity Board, and Department of Irrigation and Drainage). Table 7 gives the estimated areas of these various catchments. Similarly, table 6 gives the estimated areas of presently utilised irrigation and drainage schemes. Also relevant to an understanding of the water use situation is a knowledge of the annual rainfall

TABLE 5\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF LAND CAPABILITY CATEGORIES IN ACRES

I.C.T. CARD	Column 14 Nos 1 and 2	Column 15 Nos 1 and 2	Column 15 No 3	Column 16 Nos 1, 2, and 3	Column 16 No 4		
DISTRICT Mukim	POTENTIAL MINING	POTENTIAL AGRICULTURE 1*	POTENTIAL AGRICULTURE 2*	POTENTIAL FORESTRY	POTENTIAL PROTECTIVE FORESTRY	TOTAL	
KUANTAN	Penor	-	-	-	3,933	52,164	56,097
	Beserah	-	3,933	2,070	621	1,242	7,866
	Sungei Karang	-	7,659	13,455	13,662	33,120	67,896
	Kuala Kuantan	8,901	49,473	52,992	36,432	44,712	192,510
	Ulu Lepar	2,691	97,911	23,805	62,307	19,044	205,758
Ulu Kuantan	4,554	414	81,972	100,188	33,120	220,248	
DISTRICT TOTAL:	16,146 (2.2%)	159,390 (21.2%)	174,294 (23.2%)	217,143 (29.0%)	183,402 (24.4%)	750,375 (100%)	
BENTONG	Pelangat	3,933	-	81,972	47,610	7,866	141,381
	Bentong	1,035	38,295	-	62,514	69,138	170,982
	Sabat	1,242	46,575	13,662	53,613	25,875	140,967
DISTRICT TOTAL:	6,210 (1.4%)	84,870 (18.7%)	95,634 (21.1%)	163,737 (36.1%)	102,879 (22.7%)	453,330 (100%)	
TEMERLOH	Jenderak	-	-	134,964	70,794	11,178	216,936
	Lipat Kajang	-	-	7,866	1,035	-	8,901
	Kerdau	-	-	30,222	207	-	30,636
	Bangau	-	-	7,245	-	621	7,866
	Labak	-	-	8,073	414	1,242	9,729
	Mentakab	-	-	24,840	-	-	24,840
	Perak	-	-	51,336	828	-	52,992
	Sanggang	-	-	23,005	207	621	24,633
	Semantan	1,035	-	159,597	25,875	414	186,921
	Songsang	-	-	6,624	-	-	6,624
	Chanor	-	79,902	125,856	56,925	2,404	265,167
	Kertau	-	21,114	12,213	5,968	621	38,916
	Bukit Segumpal	-	5,589	22,977	-	-	28,566
Triang	-	18,837	96,876	9,522	11,385	136,620	
Bera	207	125,028	140,346	87,147	53,199	405,927	
DISTRICT TOTAL:	1,242 (neg)	250,470 (17.3%)	852,840 (59.2%)	257,922 (17.8%)	882,800 (5.7%)	1,445,274 (100%)	
PEKAN	Bebar	-	29,808	107,019	9,936	302,841	449,604
	Ganchong	-	3,726	621	-	24,012	28,359
	Kuala Pahang	-	-	-	207	9,315	9,522
	Langgar	-	3,519	-	-	20,700	24,219
	Lepar	-	23,184	49,473	14,657	3,312	90,666
	Lutit	828	27,960	19,458	52,371	9,936	140,553
	Pekan	-	4,554	-	4,347	35,811	44,712
	Pahang Tua	-	5,175	-	1,035	3,105	9,315
	Pulau Rusa	-	2,404	207	-	3,933	6,624
	Pulau Manis	-	9,108	6,210	828	38,916	55,062
	Temai	-	6,624	414	-	21,528	28,566
	Penyor	1,242	44,919	74,106	54,027	7,452	181,746
	Endau	1,242	34,155	10,557	55,269	96,462	197,685
	Pontian	1,242	38,709	1,656	2,898	26,703	71,208
	Rompin	828	58,995	32,292	19,458	89,631	201,204
	Keratong	5,175	284,625	262,683	214,038	26,910	793,431
Tioman	not done	not done	not done	not done	not done	not done	
DISTRICT TOTAL:	10,557 (0.5%)	607,545 (26.0%)	564,696 (24.2%)	429,111 (18.4%)	720,567 (30.9%)	2,332,476 (100%)	
RAUB	Batu Talam	-	3,726	19,251	50,301	69,966	143,244
	Tras	6,003	4,140	4,968	14,076	45,126	74,313
	Sega	-	13,869	20,079	6,003	207	40,158
	Dong	-	9,936	-	4,347	54,968	19,251
	Gali	10,350	70,380	23,805	28,773	30,636	163,944
	Semantan Ulu	1,656	2,898	8,901	26,082	40,365	79,902
Ulu Dong	-	2,070	-	18,009	27,945	48,024	
DISTRICT TOTAL:	18,009 (3.2%)	107,019 (18.8%)	77,004 (13.5%)	247,591 (26.0%)	219,213 (38.5%)	568,836 (100%)	

I.C.T. CARD		Column 14 Nos 1 and 2	Column 15 Nos 1 and 2	Column 15 No 3	Column 16 Nos 1, 2 and 3	Column 16 No 4	
DISTRICT	MUKIM	POTENTIAL MINING	POTENTIAL AGRICULTURE 1*	POTENTIAL AGRICULTURE 2*	POTENTIAL FORESTRY	POTENTIAL PROTECTIVE FORESTRY	TOTAL
CAMERON HIGHLANDS	Ringlet	-	-	2,277	-	9,106	11,385
	Tanah Rata	-	-	-	-	4,968	4,968
	Ulu Telam	-	-	10,764	37,260	105,570	153,594
DISTRICT TOTAL:		-	-	13,041 (7.7%)	37,260 (21.9%)	119,646 (70.4%)	169,947 (100%)
LIPIS	Kuala Lipis	-	-	21,735	3,519	1,242	26,496
	Gua	-	-	18,009	-	1,035	19,044
	Kechau	-	-	120,060	61,893	9,108	191,061
	Batu Yon	2,898	-	127,098	158,562	14,076	302,634
	Telang	621	-	70,794	11,799	1,242	84,456
	Perjom	1,449	3,726	35,397	1,449	2,691	44,712
	Budu	-	1,449	6,831	5,382	621	14,283
	Ulu Jelaf	1,656	-	132,894	251,091	123,579	509,220
	Tanjong Besar	207	-	22,563	8,073	1,242	32,085
Cheka	621	2,898	73,899	31,671	1,449	110,538	
DISTRICT TOTAL:		7,452 (0.6%)	8,073 (0.6%)	629,280 (47.1%)	533,439 (40.0%)	156,285 (11.7%)	1,334,529 (100%)
JERANTUT	Ulu Cheka	-	16,353	32,292	333,948	4,347	86,940
	Buruau	-	6,417	22,563	1,449	621	31,050
	Kelola	-	2,070	11,178	-	-	13,248
	Tebing Tinggi	-	3,312	6,831	16,767	1,035	27,945
	Kuala Tembeling	414	29,808	4,140	10,350	1,242	45,954
	Teh	-	18,009	2,484	1,863	414	22,770
	Pedeh	-	15,318	6,003	34,155	3,726	59,202
	Pulau Tawar	-	124,407	21,735	55,476	2,898	204,516
	Tembeling	-	128,754	1,656	149,868	27,117	307,395
Ulu Tembeling	-	252,476	13,248	532,197	208,242	1,016,163	
DISTRICT TOTAL:		414 (neg)	606,924 (33.4%)	122,130 (6.7%)	836,073 (46.1%)	249,642 (13.8%)	1,815,183 (100%)
STATE TOTAL:		60,030 (0.7%)	1,824,291 (20.6%)	2,528,919 (28.5%)	2,622,276 (29.5%)	1,834,434 (20.7%)	8,869,950 (100%)

\* NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. - = nil or negligible (neg).

1\* Land possessing a high potential for possible agricultural development with a wide range of crops.

2\* Land possessing a moderate potential for possible agricultural development because of a restricted range of crops.

distribution pattern and its relationship to the topography, and tables 8 and 9, prepared from isohyte and contoured topographic maps, give respectively the estimated areas of land subject to different annual rainfall intensities and the areas between different contours.

**TABLE 6\***  
**STATE OF PAHANG (EXCLUDING PULAU TIOMAN)**  
**ESTIMATED AREAS OF PRESENTLY UTILISED IRRIGATION AND DRAINAGE SCHEMES**  
**IN ACRES**

I.C.T. Card Col. 18, Code No.	0	3	5	
District	NTL	Irrigation Schemes	Drainage Schemes	TOTAL
Kuantan	74,564 (99.4%)	2,277 (0.3%)	2,484 (0.3%)	750,375 (100%)
Bentong	452,502 (99.8%)	828 (0.2%)	-	453,330 (100%)
Temerloh	1,438,443 (99.5%)	6,831 (0.5%)	-	1,445,274 (100%)
Pekan	2,323,989 (99.6%)	8,487 (0.4%)	-	2,332,476 (100%)
Raub	563,040 (99.0%)	5,796 (1.0%)	-	568,836 (100%)
Cameron Highlands	169,947 (100%)	-	-	169,947 (100%)
Kuala Lipis	1,333,287 (99.9%)	1,242 (0.1%)	-	1,334,529 (100%)
Jerantut	1,813,113 (99.9%)	2,070 (0.1%)	-	1,815,183 (100%)
STATE TOTAL:	8,839,935 (99.7%)	27,531 (0.3%)	2,484 (neg)	8,869,950 (100%)

\* NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. - = nil or negligible.

TABLE 7\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF PRESENTLY UTILISED WATER CATCHMENTS

I.C.T. CARD COLUMN 24 CODE NOS:		0	1	2	3	4	5	6	7	TOTAL
DISTRICT	MUKIM	NOT UTILISED	IRRIGATION HYDRO-ELECTRIC AND POTABLE/INDUSTRIAL	IRRIGATION AND POTABLE/INDUSTRIAL	IRRIGATION AND POTABLE/INDUSTRIAL	HYDRO-ELECTRIC AND POTABLE/INDUSTRIAL	IRRIGATION ONLY	HYDRO-ELECTRIC ONLY	POTABLE/INDUSTRIAL ONLY	
KUANTAN	Penor	54,441	-	-	-	-	1,656	-	-	56,097
	Beserah	6,210	-	-	-	-	1,656	-	-	7,866
	Sungei Karang	64,791	-	-	-	-	3,105	-	-	67,896
	Kuala Kuantan	90,873	-	-	13,662	-	2,898	85,077	-	192,510
	Ulu Lepar	203,688	-	-	-	-	2,070	-	-	205,758
	Ulu Kuantan	-	-	-	-	-	-	-	220,248	220,248
DISTRICT TOTAL:		420,003 (56.0%)	-	-	13,662 (1.8%)	-	11,305 (1.5%)	85,077 (11.1%)	220,248 (29.4%)	750,372 (100%)
BENTONG	Pelangai	103,500	-	-	25,668	-	12,213	-	-	141,381
	Bentong	55,062	23,805	17,388	53,513	-	21,114	-	-	170,982
	Babai	74,934	-	-	66,033	-	-	-	-	140,967
DISTRICT TOTAL:		233,496 (51.4%)	23,805 (5.3%)	17,388 (3.8%)	145,314 (3.8%)	-	33,327 (7.4%)	-	-	453,330 (100%)
TEMERLOH	Jenderak	-	-	-	-	-	-	-	216,936	216,936
	Lipat Kajang	-	-	-	-	-	-	-	8,901	8,901
	Kerdau	-	-	-	-	-	-	-	30,636	30,636
	Bangau	1,242	-	-	-	-	-	-	-	7,866
	Lebak	9,729	-	-	-	-	-	6,624	-	9,729
	Mentakab	2,070	-	-	-	-	-	-	-	24,840
	Perak	47,817	-	-	-	-	-	-	22,770	52,992
	Sanggai	-	-	-	-	-	-	-	5,175	24,633
	Semantan	207	-	-	-	-	-	-	24,633	186,300
	Songsang	-	-	-	414	-	-	-	-	6,624
	Chenor	169,740	-	-	-	-	-	-	-	95,427
	Kertau	38,916	-	-	-	-	-	-	-	23,869
	Bukit Segumpal	14,697	-	-	-	-	-	-	-	828
	Trifang	136,620	-	-	-	-	-	-	-	828
Bera	405,099	-	-	-	-	-	-	-	828	
DISTRICT TOTAL:		826,137 (57.1%)	-	-	414 (neg)	-	-	-	6,624 (0.5%)	1,445,274 (100%)
PEKAN	Bebar	446,913	-	-	-	-	-	-	2,691	449,604
	Ganchong	22,149	-	-	-	-	-	-	6,210	28,359
	Kuala Pahang	9,522	-	-	-	-	-	-	-	9,522
	Lariggar	17,388	-	-	-	-	-	-	6,831	24,219
	Lepar	1,656	-	-	-	-	-	-	89,010	90,666
	Luit	207	-	-	-	-	8,280	-	132,066	140,553
	Pekan	44,091	-	-	-	-	-	-	621	44,712
	Pahang Tua	8,901	-	-	-	-	-	-	414	9,315
	Pulau Rusa	4,140	-	-	-	-	-	-	2,484	6,624
	Pulau Manis	28,566	-	-	-	-	-	-	26,496	55,062
	Temaf	19,872	-	-	-	-	-	-	8,694	28,566
	Penyor	-	-	-	-	-	-	-	181,746	181,746
	Endau	197,685	-	-	-	-	-	-	-	197,685
	Pontian	64,791	-	-	-	-	-	6,417	-	71,208
Rompin	201,204	-	-	-	-	-	-	-	201,204	
Keratong	792,603	-	-	-	-	-	-	-	793,431	
Tioman	not done	not done	not done	not done	not done	not done	not done	not done	not done	
DISTRICT TOTAL:		1,859,688 (79.8%)	-	-	-	-	14,697 (0.6%)	-	458,091 (19.6%)	2,332,476 (100%)
RAUB	Batu Talam	124,407	-	-	-	-	18,837	-	-	143,244
	Tras	15,525	-	-	-	-	-	20,079	38,709	74,313
	Sega	20,286	-	-	-	-	19,872	-	-	40,158
	Dong	4,140	-	-	10,971	-	-	-	-	19,251
	Gali	131,445	-	-	207	-	29,394	-	2,898	163,944
	Sementan Ulu	79,695	-	-	-	-	207	-	-	79,902
Ulu Dong	621	-	-	47,403	-	-	-	-	48,024	
DISTRICT TOTAL:		376,177 (66.2%)	-	-	60,501 (10.3%)	-	72,450 (12.7%)	20,079 (3.5%)	41,607 (7.3%)	588,836 (100%)



TABLE 9\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF LAND BETWEEN DIFFERENT CONTOURS IN ACRES

I.C.T. CARD COLUMN 22, CODE NOS:		0	1	2	3	4	5	6	7	8	TOTAL
DISTRICT	MUKIM	0 - 499 FEET	500 - 999 FEET	1,000 - 1999 FEET	2,000 - 2,999 FEET	3,000 - 3,999 FEET	4,000 - 4,999 FEET	5,000 - 5,999 FEET	6,000 - 6,999 FEET	7,000 - 7,999 FEET	
KUANTAN	Penor	56,097	--	--	--	--	--	--	--	--	56,097
	Beserah	7,452	414	--	--	--	--	--	--	--	7,866
	Sungei Karang	67,275	621	--	--	--	--	--	--	--	67,896
	Kuala Kuantan	181,746	7,866	2,890	--	--	--	--	--	--	192,510
	Ulu Lepar	140,553	27,531	28,566	8,901	207	--	--	--	--	205,758
	Ulu Kuantan	137,034	40,158	32,085	9,315	1,449	207	--	--	--	220,248
DISTRICT TOTAL:		590,157 (78.7%)	76,690 (10.2%)	63,549 (8.5%)	18,216 (2.4%)	1,656 (0.2%)	207 (neg)	--	--	--	750,375 (100.0%)
BENTONG	Pelangai	105,156	15,318	12,627	7,066	414	--	--	--	--	141,388
	Bentong	33,741	29,394	40,365	37,831	21,321	7,038	1,242	--	--	170,982
	Sabaf	67,275	17,595	26,910	23,598	5,598	--	--	--	--	160,967
DISTRICT TOTAL:		206,172 (45.5%)	62,307 (13.7%)	79,902 (17.6%)	69,345 (15.3%)	27,324 (6.0%)	7,038 (1.6%)	1,242 (0.3%)	--	--	453,330 (100%)
TENERLOH	Jenderak	142,623	24,840	25,668	10,350	5,589	4,140	2,898	828	--	216,936
	Lipat Kajang	8,694	207	--	--	--	--	--	--	--	8,900
	Kerdau	30,222	414	--	--	--	--	--	--	--	30,630
	Bangau	7,866	--	--	--	--	--	--	--	--	7,866
	Lebak	9,729	--	--	--	--	--	--	--	--	9,729
	Mentakab	24,840	--	--	--	--	--	--	--	--	24,840
	Perak	52,578	414	--	--	--	--	--	--	--	52,992
	Sanggung	24,633	--	--	--	--	--	--	--	--	24,633
	Semantan	169,326	8,200	7,659	1,035	414	207	--	--	--	186,921
	Songsang	6,624	--	--	--	--	--	--	--	--	6,624
	Chenor	222,318	18,216	18,216	5,589	828	--	--	--	--	265,167
	Kertau	35,604	2,870	1,242	--	--	--	--	--	--	38,916
	Bukit Segumpal	28,566	--	--	--	--	--	--	--	--	28,566
Triang	135,171	11,035	414	--	--	--	--	--	--	136,620	
Bera	328,332	14,490	3,105	--	--	--	--	--	--	405,927	
DISTRICT TOTAL:		1,287,126 (89.1%)	69,966 (4.8%)	56,304 (3.9%)	16,974 (1.2%)	6,831 (0.5%)	4,347 (0.3%)	2,898 (0.2%)	828 (neg)	--	1,445,274 (100%)
PEKAI	Bebar	448,569	1,035	--	--	--	--	--	--	--	449,604
	Ganchong	28,359	--	--	--	--	--	--	--	--	28,358
	Kuala Pahang	9,522	--	--	--	--	--	--	--	--	9,522
	Langgar	24,219	--	--	--	--	--	--	--	--	24,219
	Lepar	86,526	4,140	--	--	--	--	--	--	--	90,666
	Lutit	95,427	35,604	9,108	414	--	--	--	--	--	140,553
	Pekan	44,712	--	--	--	--	--	--	--	--	44,712
	Pahang Tua	9,315	--	--	--	--	--	--	--	--	9,315
	Pulau Rusa	6,624	--	--	--	--	--	--	--	--	6,624
	Pulau Manis	55,062	--	--	--	--	--	--	--	--	55,062
	Temai	28,566	--	--	--	--	--	--	--	--	28,566
	Penyor	164,772	12,627	4,557	--	--	--	--	--	--	181,746
	Endau	143,037	31,464	22,356	621	207	--	--	--	--	197,685
	Pontian	70,300	828	--	--	--	--	--	--	--	71,208
	Rompin	189,198	8,073	3,933	--	--	--	--	--	--	201,204
Keratong	699,246	62,100	29,394	2,691	--	--	--	--	--	793,431	
Tioman	not done	not done	not done	not done	not done	not done	not done	not done	not done	not done	
DISTRICT TOTAL:		2,103,534 (90.1%)	155,871 (6.7%)	69,130 (3.0%)	3,726 (0.2%)	207 (neg)	--	--	--	--	2,332,476 (100%)
RAUD	Batu Talam	22,149	41,193	26,496	28,359	21,321	3,726	--	--	--	143,244
	Tras	1,863	17,802	21,735	16,560	12,834	8,898	621	--	--	74,313
	Sega	31,050	9,108	--	--	--	--	--	--	--	80,158
	Dong	8,073	9,108	1,656	414	--	--	--	--	--	19,251
	Gali	102,465	32,706	12,834	6,417	4,968	2,404	1,863	207	--	163,944
	Semantan Ulu	9,315	10,764	13,041	19,044	18,837	7,245	1,656	--	--	79,902
	Ulu Dong	2,070	6,624	13,869	8,073	8,079	7,038	1,863	414	--	48,024
DISTRICT TOTAL:		176,985 (31.0%)	127,305 (22.4%)	89,631 (15.8%)	78,867 (13.9%)	66,033 (11.6%)	23,391 (4.1%)	6,003 (1.1%)	621 (0.1%)	--	568,836 (100%)

SELECTED CROSS-TABULATIONS:

The extent of the opportunities and problems, in area terms, in respect of the land use pattern and the development of the natural resources can best be appreciated by making cross-tabulations between different data categories, and in order to illustrate the range and usefulness of these cross-referencing possibilities a number of cross-tabulation tables have been prepared (tables 10 to 12).

The first of these tables has been drawn up to show the extent of the opportunity for agricultural development within the State Land category. It is instructive to note that the two least accessible districts (Pekan and Lipis) possess the largest areas of state land having an agricultural potential, amounting to 57% of the total such area in the State. The districts of Cameron Highlands, Bentong, and Raub, on the other hand, possess only small areas of land in this category, representing as little as 3.4% of the State total).

The other major land use category known to possess a considerable potential for agricultural development is that of Forest Reserves, and table 11 illustrates the extent of this potential within the eight districts. Out of a total of almost one million acres, more than half is to be found in Pekan and Temerloh districts, while all the other districts have large areas in this category, with the exception of Cameron Highlands.

In contrast to the areas having an extensive agricultural potential, which occur almost exclusively in the lowlands below 500 feet elevation, the permanent productive forestry development potential is to be found chiefly in the hills, where agricultural development potentials are extremely limited. The bulk of this productive forest development potential occurs between 500 and 2,000 feet, as can be seen from table 12.

TABLE 10\*  
STATE OF PAHANG (EXCLUDING PULAU TIUMAN)  
ESTIMATED AREAS OF STATELAND POSSESSING AGRICULTURAL DEVELOPMENT POTENTIALS

I.C.T. Card Column 15, Code No:	1	2	(Cross-tabulated against Column 17, Code No. 0	
District	Soils with No Limitations to Agricultural Develop- ment	Soils with few Minor Limitations to Agricultural Development	Soils with at Least one Serious Limitation to Agri- cultural Development	TOTAL
Kuantan	30,429 (14.5%)	69,138 (33.0%)	110,124 (52.5%)	209,691 (100%)
Bentong	--	6,831 (23.1%)	22,770 (76.9%)	29,602 (100%)
Temerloh	79,281 (21.2%)	97,911 (26.2%)	196,029 (52.6%)	373,221 (100%)
Pekan	36,846 (4.8%)	333,270 (43.5%)	395,577 (51.7%)	765,693 (100%)
Raub	2,484 (7.9%)	13,041 (41.7%)	15,732 (50.4%)	31,257 (100%)
Cameron Highlands	--	--	8,487 (100%)	8,487 (100%)
Lipis	1,449 (0.4%)	--	404,892 (99.6%)	406,341 (100%)
Jerantut	120,474 (53.9%)	60,517 (30.6%)	31,257 (15.5%)	223,560 (100%)
STATE TOTAL:	270,963 (13.2%)	588,708 (28.7%)	1,188,180 (58.1%)	2,047,851 (100%)

\* NOTE: 1. The estimates shown in this table include a bias of +.2%  
2. The accuracy of the estimates can be determined from the standard error tables  
included in the appendix. 3. -- = nil or negligible.

TABLE 11\*  
STATE OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF GAZETTED FOREST RESERVES POSSESSING AGRICULTURAL DEVELOPMENT  
POTENTIALS

I.C.T. Card Column 15 Code No:	(Cross-tabulated against Column 17, Code no. 6)			Total
	1	2	3	
District	Soils with no limitations to Agricultural Development.	Soils with few minor limitations to Agricultural Development.	Soils with at least one serious limitation to Agricultural Development.	
Kuantan	11,592 (13.9%)	27,117 (32.4%)	44,919 (53.7%)	83,628 (100.0%)
Bentong	-	14,697 (25.4%)	43,263 (74.6%)	57,960 (100.0%)
Temerloh	15,732 (6.7%)	9,315 (4.0%)	208,055 (89.3%)	233,082 (100.0%)
Pekan	12,627 (44.1%)	161,460 (52.8%)	131,859 (43.1%)	305,946 (100.0%)
Raub	828 (1.3%)	34,776 (52.8%)	30,222 (45.9%)	65,826 (100.0%)
Cameron Highlands	-	-	414 (100%)	414 (100.0%)
Lipis	1,449 (2.2%)	-	62,928 (97.8%)	64,377 (100.0%)
Jerantut	140,967 (75.0%)	29,394 (15.6%)	17,595 (9.4%)	187,956 (100.0%)
State Total:	182,195 (18.3%)	276,759 (27.7%)	539,235 (54.0%)	999,189 (100.0%)

\* NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables include in the appendix.
3. - = nil or negligible.

TABLE 12\*  
STATES OF PAHANG (EXCLUDING PULAU TIOMAN)  
ESTIMATED AREAS OF PRODUCTIVE FOREST BETWEEN VARIOUS ELEVATIONS ABOVE 500 FEET

I.C.T. Card Column Code No:	(Cross-tabulated against Column 16, Code Nos. 1, 2 and 3)					TOTAL
	1	2	3	4	5	
District	Between 500 and 999	Between 1,000 and 1,999'	Between 2,000 and 2,999'	Between 3,000' and 3,999'	Between 4,000 and 4,999'	
Kuantan	68,377(55.4%)	46,989(40.5%)	4,761(4.1%)	-	-	116,127(100.0%)
Bentong	28,773(19.9%)	64,791(45.0%)	44,919(31.1%)	5,589(3.5%)	207(0.1%)	144,279(100.0%)
Temerloh	67,275(45.7%)	52,476(37.7%)	18,560(11.2%)	5,796(3.9%)	2,277(1.5%)	147,384(100.0%)
Pekan	131,859(70.2%)	52,578(28.0%)	3,105(1.7%)	207(0.1%)	-	187,749(100.0%)
Raub	68,310(43.8%)	54,441(34.9%)	30,222(19.4%)	2,898(1.9%)	-	155,871(100.0%)
Cameron Highlands	1,035(2.9%)	828(2.3%)	4,968(14.0%)	18,630(52.7%)	9,936(28.1%)	35,397(100.0%)
Lipis	356,868(59.9%)	166,955(28.0%)	39,330(6.6%)	27,324(4.6%)	5,382(0.9%)	595,859(100.0%)
Jerantut	428,490(48.1%)	379,224(42.6%)	74,934(8.4%)	6,003(0.7%)	1,863(0.2%)	890,514(100.0%)
State Total:	1,146,887(50.5%)	821,282(36.1%)	218,799(9.6%)	66,447(2.9%)	19,665(0.9%)	2,273,180(100.0%)

\* NOTE:

1. The estimates shown in this table include a bias of +.2%
2. The accuracy of the estimates can be determined from the standard error tables included in the appendix.
3. - = nil or negligible.

APPENDIX

AREA SUMMATION METHOD:

The area estimates given in the preceding report and its accompanying tables were prepared by mechanical data processing methods, using I.C.T. punch cards. The land use, natural resource, and other land quality data on the contributed maps have been coded on a point basis using a linear random sampling pattern afforded by the intersection points of the 1,000 yard grid squares, which are shown on all 1:63,360 published topographic maps of West Malaysia.

The percentage standard error for individual acreage estimates can be determined from the following table:

PERCENTAGE STANDARD ERROR TABLE

Percentage Standard Error	total number of sampling points in the area*			
	50,000 (Approximate equivalent to State of Pahang)	10,000 (Approximate equivalent to larger districts)	5,000 (Approximate equivalent to smaller districts of larger mukims)	1,000 (Approximate equivalent to medium sized mukims)
	Total number of sampling points with particular Land quality*			
100	1	1	1	1
30	11	11	11	11
25	16	16	16	16
20	25	25	25	24
15	45	44	44	43
10	100	99	98	91
5	400	380	370	286
4	620	590	560	385
3	1,090	1,000	910	526
2	2,380	2,000	1,670	714
1	8,330	5,000	3,340	909
0.5	22,220	8,000	4,440	976

\* The exact plain acreage equivalent of a 1,000 yard square is 206.61116 acres, but in order to facilitate the calculations necessary for preparing the acreage tables presented in the preceding report, the area equivalent of each sampling point has been taken as 207 acres, thus introducing a bias of +.2% into the quoted figure. In order to determine the number of sampling point related to a given acreage, the acreage figure should be divided by 207.

The above table shows, for four area classifications, the number of points with a particular quality necessary to give a corresponding percentage standard error, e.g. Ulu Tembeling Mukim, in Jerantut District, with a total estimated area of 1,016,163 acres is equivalent to approximately 5,000 sample points. Percentage standard errors for area estimates within the boundary of this mukim can therefore be calculated by reference to column 4 in the table. As the total estimated area of State land in this mukim is 373,014 acres (Table 1) equivalent to 1,802 sample points, and as this figure is most closely approximate to the figure 1670 in the fourth column of the table, the equivalent standard error for the estimated acreage of State land in this mukim is 2%.

