

GOVERNMENT OF MALAYSIA

**FEASIBILITY STUDY
ON
RATIONALIZATION AND
CROP DIVERSIFICATION
IN
NON-GRANARY IRRIGATED AREAS
IN MALAYSIA**

Volume 5-4

State Report - Perak

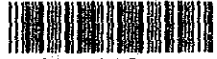
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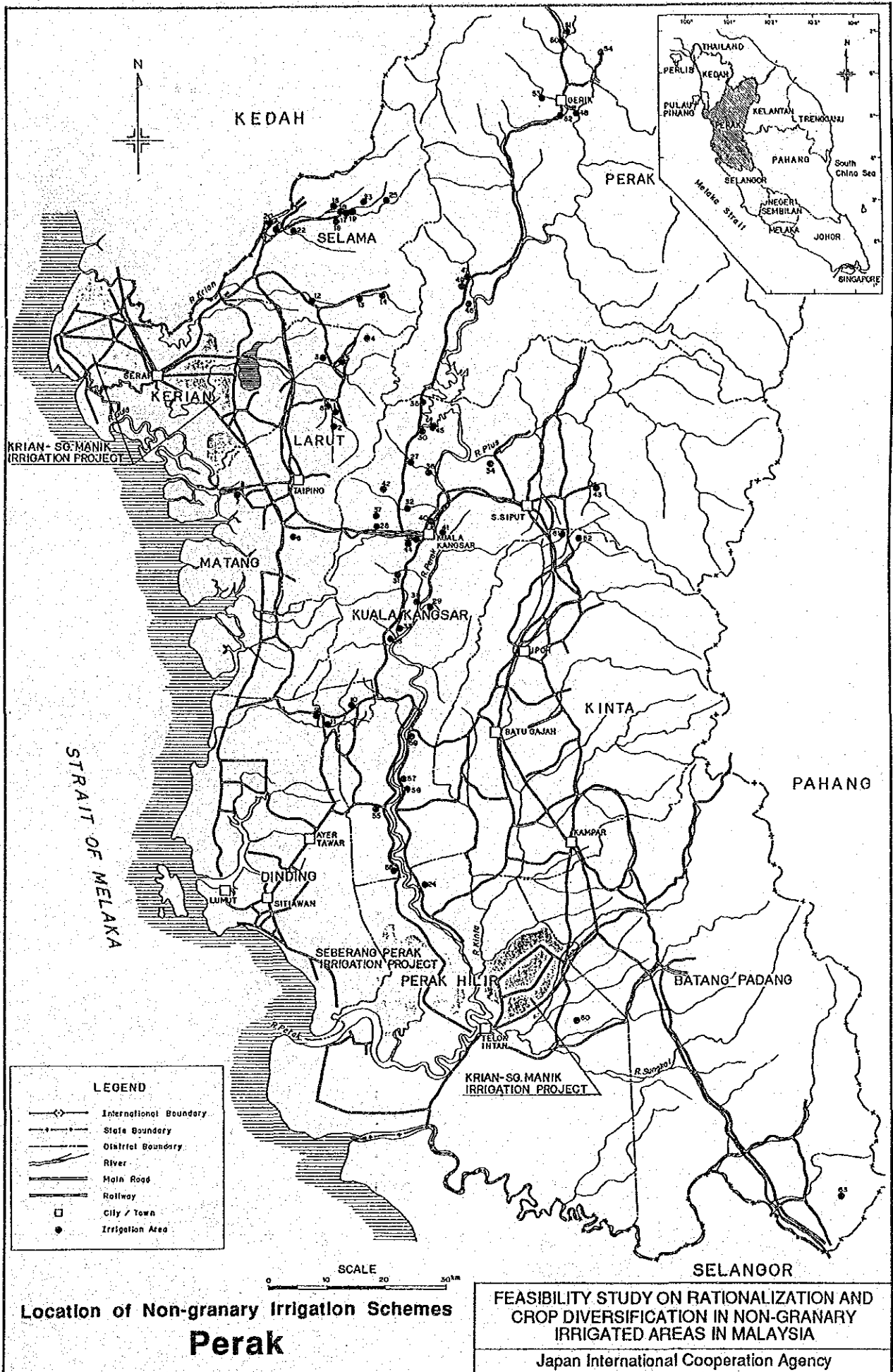
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*Feasibility Study on Rationalization and Crop Diversification
in Non-granary Irrigated Areas in Malaysia*

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*Feasibility Study on Rationalization and Crop Diversification
in Non-granary Irrigated Areas in Malaysia*

Volume 5-4

State Report - Perak

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RESULTS OF EVALUATION FOR CROP DIVERSIFICATION POTENTIAL

1. INTRODUCTION

This is the State Report - Perak, Volume 5-4, of the Final Report for Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia. This report includes the criteria, procedure and results of evaluation of crop diversification potential of non-granary irrigation schemes in the State of Perak.

Detailed information on the criteria and procedure for evaluation is presented in Volume 2 of the Final Report, and the results of evaluation of crop diversification potential for each scheme are given in the Appendix attached to this Volume.

2. GENERAL CONDITIONS

2.1 Socio-economic Situation

Perak is bounded on the north by Seberan Prai, on the south by Selangor and on the east by Kelantan and Pahang, and has a coastline facing the Straits of Melaka to the west. The physical area is 21,005 km² in total, being divided into 10 administrative districts. The estimated population was 1,997,500 persons for 1985 and 2,008,200 persons for 1988. The population density in 1988 was 96 person/km². Rural population ratio slightly increased 65% in 1985 to 67% in 1988. The proportion of population by ethnic group in 1987 was 46% for Bumiputera, 39% for Chinese, 14% for Indian and less than 1% for others.

In the State of Perak, GDP in 1988 amounted to M\$6,040 million at 1978 constant prices. The agriculture sector largely contributed to 28% of GDP followed by the service sector of 19% and the manufacturing sector of 18%. Per capita GDP was M\$2,770 in 1986 and M\$2,978 in 1988. These were lower than the country's per capita GDP by M\$3,551 in 1986 and M\$3,858 in 1988. According to the Household Income Surveys, the number poor households declined from 81,100 in 1984 to 79,700 in 1987. The poverty incidence also slightly reduced from 20.3% of 399,500 households in total for 1984 to 19.9% of 400,500 households in total for 1987. However, the mean monthly income went down from M\$883 in 1984 to M\$863 in 1987 and were lower than that of Peninsular Malaysia by M\$212 in 1984 and by M\$211 in 1987.

In 1985, the coverage of electricity services was 58.0% and the piped water supply services covered 98.0% of the urban people and 75.0% of the rural people. The road network was 3,455 km in the total length. Its density was 120 m/km² and per capita length was 4,450 m every 1,000 population. There were 241 registered motor vehicles per 1,000 population. Every 1,000 population had 3.7 doctors and 1.7 acute care hospital beds. In rural areas, 23,200

rural people were under the care of one health center. The infant mortality rate was 1.7 per 1,000 population.

The Federal Government and NFPPs allocated M\$2,459 million to the State of Perak under the revised 5MP. It accounts for 8.0% of the total expenditure for each State. Perak is ranked to one of the four most industrialized States in the country, although agriculture is still the dominant economic activity. The State Government is giving priority to developing the manufacturing and tourism industries. The Perak State Development Cooperation (PSDC) is responsible for providing the both sectors with infrastructure facilities.

2.2 Present Agriculture

In Perak, the total area used for crop cultivation is 591,300 ha and accounts for 28% of the State's territory. Paddy field covers 55,690 ha as a whole. Tree crop areas amount to 485,090 ha including oil palm of 174,660 ha, rubber of 46,490 ha, coconut of 42,990 ha and cocoa of 15,960 ha as productive areas. Though the State, 107 kinds of miscellaneous crops are grown and notable ones are durian covering 7,920 ha, banana of 5,550 ha, rambutan of 3,710 ha, tapioka of 3,630 ha and sugarcane of 3,320 ha. The remaining areas under other 102 miscellaneous crops are 12,530 ha in total. Major crop production in 1987 was paddy of 246,700 tons, oil palm of 21.5 million tons as FFB, rubber of 220,100 tons and dry cocoa beans of 10,000 tons.

The demand for food crops, vegetables, fruits and freshwater fishes projected by FAMA is summarized below.

Produce	Net Consumption (ton)	Outflow to Other States (ton)	Post-harvest Loss (ton)	Total Demand (ton)
Food crops	13,253	354	3,402	17,009
Vegetables	175,189	2,585	44,444	222,218
(Leafy)	(64,202)	(1,119)	(16,330)	(81,651)
(Fruit)	(66,678)	(1,208)	(16,972)	(84,858)
(Root)	(21,614)	(124)	(5,435)	(27,173)
(Other)	(22,695)	(134)	(5,707)	(28,536)
Fruits	60,785	782	15,392	76,959
Freshwater fishes	2,961	0	740	3,701

The projected supply in Perak consists of food crops of 921 tons, vegetables of 28,266 tons, fruits of 36,064 tons and freshwater fishes of 439 tons. The prospective market potential is thus as shown below.

Produce	Market Potential (ton)	Major Crops (ton)
Food crops	16,088	Groundnut (10,278)
Vegetables	193,952	
(Leafy)	(75,260)	Cabbage (21,393), Chinese kale (21,347)
(Fruit)	(62,985)	Cucumber (13,322), Chilli (11,332)
(Root)	(27,171)	Carrot (16,298)
(Other)	(28,536)	Ginger (12,979)
Fruits	40,895	Durian (8,142), Pineapple (5,396)
Freshwater fishes	3,262	Siamese sepat (2,036)

2.3 Present Situation of Non-granary Irrigation Schemes

In Perak, the total area used for crop cultivation is 591,300 ha and accounts for 28% of the State's territory. Paddy fields cover 55,689 ha as a whole. Tree crop areas amount to 485,090 ha including oil palm of 174,660 ha, rubber of 46,490 ha, coconut of 42,990 ha and cocoa of 15,960 ha as productive areas. Throughout the State, 107 kinds of miscellaneous crops are grown and notable ones are durian covering 7,920 ha, banana of 5,550 ha, rambutan of 3,710 ha, tapioka of 3,630 ha and sugarcane of 3,320 ha. The remaining areas under other 102 miscellaneous crops are 12,530 ha in total. The irrigable paddy fields are 52,290 ha in total comprising

two granary irrigated areas covering 39,568 ha and non-granary irrigated areas occupying 12,722 ha.

- Number of schemes : 63
- Irrigable area : - main season = 12,722 ha
- off season = 12,236 ha
- Type of schemes : gravity; 51 pump; 12
- Irrigation water resources availability by scheme : - sufficient for double cropping; 43
- limited to only single cropping; 14
- insufficient for main season cropping; 6
- Average cropping intensity (paddy + upland crops) for previous three years : - main season = 63%
- off season = 48%
- Average cropping intensity (paddy only) for previous three years : - main season = 57%
- off season = 42%
- Utilization of scheme : - main season paddy cropping intensity of 100%; 7
- main season paddy cropping intensity of more than 50%; 26
- main season paddy cropping intensity of less than 50%; 15
- fully idle; 15

Most schemes are scattered along the main stream of the Perak river flowing down from north to south in the State. The downstream area is flat in topography and stable in water resources resulting in high cropping intensity. In the upstream area, farm size is small and water resources are not stable due to topographic limitations. Farmers can easily obtain job opportunities with higher wages in the neighbouring rubber estates and therefore they don't adhere to paddy cultivation. In some schemes located along the main transportation route, farmers have succeeded crop diversification by growing banana in paddy fields.

3 EVALUATION OF CROP DIVERSIFICATION POTENTIAL FOR NON-GRANARY IRRIGATION SCHEMES

This section presents a general concept, criteria and procedure of evaluation in order to facilitate understanding of the results of the evaluation of potential for crop diversification by scheme attached in Appendix of this volume. A detailed explanation of the evaluation is given in Volume 2.

3.1 Basic Considerations for Evaluation

The intended shift from paddy cultivation to diversified crops in non-granary irrigated areas would invariably require investigations on a range of issues such as the selection of the appropriate crops based on agronomic and economic factors, institutional support systems, and additional investments for providing new or upgrading of facilities. Since the areas concerned are both extensive and widespread, it is only proper that a coordinated study be carried out in order to evaluate the prevailing scheme conditions and to prepare crop diversification strategies including the selection of the suitable crops.

To prepare crop diversification options for revitalization of the non-granary irrigation schemes with a wide range of constraints, the potential for crop diversification in each scheme area has to be evaluated and then indicated as the crop diversification patterns. Such procedure is to be defined as evaluation of resource potential for crop diversification. Its outcome will provide indications of the crop diversification patterns being a basis for formulating development plans and programs.

For non-paddy crops, irrigation has recently become an important input for crop production in Malaysia like irrigation for paddy. In order to accommodate crop diversification in the existing rice-based irrigation systems, special considerations are required for

the differences between paddy and non-paddy crops as well as paddy farmers behavior in addition to basic parameters such as soil-plant-water relations, water resources, climate, geographic, economic and social.

3.1.1 Differences between paddy and non-paddy crop

Paddy is very tolerant to fully saturated or flooded conditions, which is the main reason for it being planted in flood prone areas with heavy soils and poor drainage conditions. Non-paddy crops on the other hand need non-saturated and well aerated soils for healthy growth. Therefore poorly drained areas as found in most of the schemes can seriously affect growth and yields of non-paddy crops.

Sensitivity to water stress varies between their growth stages and also crop types. Cultural practices and production systems can be vastly different between types and varieties and the produce also tend to be more perishable than paddy.

These basic differences need some general criteria for the system design to be established. Irrigation for paddy is designed for continuous supply and drainage adequate for excess surface flow. Whereas for non-paddy, supply is intermittent since demand depends on available soil water storage and evapotranspiration rate. Besides irrigation, water is also required for fertilizer and pesticide application for non-paddy crops. Its drainage design will need to consider both surface and subsurface flows.

3.1.2 Paddy farmers' behavior

Paddy areas have a very long history of mono-cropping, and traditions and culture have evolved around paddy. Most paddy farmers are usually experienced and knowledgeable only in paddy production. Thus, diversification will require changes to deep-rooted life styles, values and technology of paddy farmers. On the other hand,

diversification will also require appropriate adjustments on its part to match with their behavior.

In this connection, a Socio-economic Sample Survey was performed in all non-granary irrigation scheme areas to identify paddy farmers' intentions and local community opinion leaders' view towards crop diversification. The results of the Socio-economic Sample Survey are presented in Appendix B for farmers' intentions and Appendix C for the leaders' opinions.

3.1.3 Determination of categories

In deciding options for crop diversification, it is apparent that there exists various possibilities for diversifying land utilization such as double cropping of paddy, combination of the main season paddy with short-term crops in the off-season, mix-farming, perennial tree crop cultivation, freshwater aquaculture, and cattle grazing ground. Any one of these taken singly or in combination with any other option can be a category. Taking into consideration the purpose of the evaluation under the Study, the following eight categories are to be made:

- Category 1 : Schemes to be converted to high value crop cultivation under irrigated condition,
- Category 2 : Schemes to be converted to tree crop cultivation;
- Category 3 : Schemes to introduce two-cropping system planting paddy during the main season and short-term annual crops during the off-season;
- Category 4 : Schemes to be converted to animal feeding crop cultivation or cattle raising fields;
- Category 5 : Schemes to be converted to freshwater fish culture ponds;
- Category 6 : Schemes to be positively maintained as mini-granary areas;
- Category 7 : Schemes to be maintained as paddy cultivation areas within a definite period of time for social welfare purposes and thereafter to be further categorized; and
- Category 8 : Schemes to be converted to housing/industrial and other uses.

3.2 Criteria for Evaluation

3.2.1 General

Inevitably, crop diversification involves the question of which crop or crops to be recommended based on a variety of factors. In the process to evaluate potential for crop diversification, each non-granary irrigation scheme is subjected to a screening process on a variety of factors. For this purpose, seven main factors are taken into account.

- Water resources availability,
- Farmers' intention towards continuation of paddy cultivation and introduction of crop diversification,
- Land suitability for carrying out direct seeding and mechanized plowing and harvesting for growing paddy,
- Soil and climatic suitability and limitations for the cultivation of specific crops,
- Crop profitability,
- Crop marketability, and
- Investment performance with regard to crop diversification.

3.2.2 Water resources availability

The evaluation of water resources in quantitative and qualitative terms is based on the information collected during the Scheme Inventory Survey. Reconfirmation of water resources availability is carried out through supplementary investigations on rainfall data, catchment characteristics, river discharges, reference on the existing hydrological procedures, and previous study reports on the availability of water resources on a specific catchment. The criteria for evaluating water availability of each non-granary irrigation scheme is expressed in the following four terms:

- A. Irrigation water is sufficient for double cropping of paddy;
- B. Sufficient for supplying irrigation water to the main season paddy cultivation but insufficient for meeting presaturation water requirement for the off season paddy cultivation;
- C. Limited to single cropping of the main season paddy and upland crop cultivation; and
- D. Insufficient for paddy cultivation but no limitation to grow upland crops for the main season.

The detailed information on water resources evaluation for the various non-irrigation schemes is compiled in Appendix A of Volume 2.

3.2.3 Farmers' intention towards continuation of paddy cultivation and introduction of crop diversification

This factor is important as the success of the crop diversification program is depended on farmers' willingness to participate and also their attitude and preference to move towards a more diversified cropping pattern. To evaluate this factor, the Socio-economic Sample Survey results are referred to in respect to paddy farmers' intention towards continuation of paddy cultivation and introduction of crop diversification.

The evaluation criteria established are based on the proportion of respondent farmers who strongly intend to continue the present paddy cultivation pattern among the total sample farmers and that of paddy planted area for the last three years (1985-1987) against the irrigable area of each scheme. The evaluation method is to identify the State in which more than half of the respondent farmers show intentions towards continuation of paddy cultivation and to screen out the scheme with paddy cropping intensity of more than 50%.

- Schemes possible for promoting double cropping of paddy in case that the proportion of intended farmers against the total samples in each State is over 50%. Also, possible for promoting double cropping of paddy if the scheme-by-scheme planted area for the last three years is more than 50% every year in case of the State with the above proportion of less than 50%.

- Schemes impossible for promoting intensive paddy cultivation when the above proportion on the State basis is less than 50% and the cropping intensity is below 50%.

3.2.4 Land suitability for mechanized farming practices

This factor is optionally evaluated to clarify suitability of undertaking modern farming practices of paddy cultivation in case of schemes where intensive double cropping of paddy can be promoted. To evaluate this factor, special attention is paid to soil physical characteristics, size of scheme, availability of mechanical service centers and distance between schemes and available service sources. The evaluation criteria is established taking into account soil physical characteristics among others as below.

- Schemes suitable for mechanized farming practices are expressed in terms of the existence of alluvial soils.
- Schemes not suitable for mechanized farming practices are indicated by inappropriate soil physical conditions derived from peat soils and organic mac soils which are featured by low bearing capacity for using tractors and harvesters commonly used in Malaysia.

The detailed information is presented in Appendix D of Volume 2.

3.2.5 Soil and agro-climatic suitability and limitations for the cultivation of specific diversified crop

These factors are the basis to identify crops suitable for each scheme from the agronomic viewpoints. In identifying suitable crops, soil criteria for optimum crop growth is prepared for the following 28 crop groups referring to documents such as "Soil-Crop Suitability Classification for Peninsular Malaysia" prepared by the Department of Agriculture (DOA), "The Land Capability Classification" collected from DOA, Sabah and "Sarawak Land Capability Classification and Evaluation for Agricultural Crops" issued by DOA, Sarawak.

Short-term food crops:

maize, sorghum, wet paddy and upland rice as food crops, and ginger, groundnut and vegetables as vegetable crops.

Fruits:

mango/durian, guava, banana, cashewnut, papaya, citrus, pineapple and watermelon,

Perennial industrial crops:

coconut, oil palm, cocoa, rubber, sago palm, coffee, tea, clove, tobacco, sugarcane and pepper,

Feeding crops:

fodder grasses and pasture.

As the basic information to evaluate soil suitability and limitations, soil services that distribute in each scheme are identified referring to the available reconnaissance soil maps and those limitations to growth of each of 28 crops are evaluated on the basis of the soil criteria. The evaluated limitations are expressed in the form of soil suitability classed with a symbol indicating the specific limitation such as acid sulphate layer, depth to compacted layer, drainage, nutrient imbalance, organic horizon, salinity, and texture and structure. The followings are the grade of limitations to crop growth.

- Class 1 soils with no limitation or only minor limitations to crop growth are suitable for the widest range of crops.
- Class 2 soils with moderate limitations to crops growth are suitable for a narrower range of crops than Class 1 soils. Minor management practices according to limitations are required.
- Class 3 soils with one serious limitation to crop growth are restricted to an even narrower range of crops. Necessary management practices involve moderate expenses.
- Class 4 soils with more than one serious limitation to crop growth are suitable for a very narrow range of crops with provision of major amelioration measures.
- Class 5 soils with at least one very serious limitation to crop growth are least suitable for crop growth.

Through the identification and grading of limitations to crop growth for soil series which is identified in each non-granary irrigation scheme, soil suitability of 28 crops is classified into four groups such as suitable, marginally suitable, very marginally suitable and not suitable for promoting crop diversification.

The correlation between suitability grades and soil classes as follows:

Suitable:

Class 1 soils,

Marginally suitable:

Class 2 soils and partly Class soils of which limitations can be physically improved,

Very marginally suitable:

Class 3 soils with limitations of which limitations can be hardly graded up by direct physical measurements, and

Not suitable:

Classes 4 and 5 soils.

After evaluating soil suitability in the above procedure, identified crops with suitable to very marginally suitable grades are to be succeedingly confirmed from the agro-climatic viewpoint. For this purpose, two basic references are utilized, being "Agro-ecological regions in Peninsular Malaysia" and "Climatic and Agricultural Planning in Peninsular Malaysia" both prepared by the Malaysian Agricultural Research and Development Institute (MARDI). Among the identified crops, those which are not suited to regional climatic conditions in the specific scheme are eliminated from a list of suitable crops identified on the basis of soil conditions.

The detailed information is presented in Appendix D of Volume 2.

3.2.6 Crop profitability

To confirm the net income difference between paddy cultivation and other diversified crops, crop budget is computed based on average crop yield under normal farming practices, production cost and selling price. For this, "Guideline on Economic Viability of Selected Crops" prepared by the Ministry of Agriculture (MOA) is used as the basic reference. This includes crop budget data on 25 food crops and vegetables, 14 fruits and one industrial crop. With regard to other industrial crops, data on crop budgets are supplemented from MOA, DOA and agencies concerned. All the information is presented in Appendix E of Volume 2. The evaluation criteria is set up as below.

- Crop suitable for promoting diversified cropping are more profitable as compared with net income derived from the single cropping of paddy.
- Crops not suitable for incorporating in diversified cropping are less profitable in comparison with the net income obtained from the single cropping of paddy.

3.2.7 Crop marketability

This factor is also very important when crop diversification is promoted in specific areas, because most paddy farmers are aware that success of diversified cropping especially for short-term upland crops demand largely on availability of markets where they can expect to sell their produce at profitable price levels.

In terms of export-oriented perennial crops, the respective responsible agencies provide smallholder farmers with easy access to the existing marketing channel actively maintained. As for short-term upland crops, the Federal Agricultural Marketing Authority (FAMA) is responsible for promotion of marketing activities to encourage growers. Every year, FAMA gives a guideline for market potential in each State for about 30 varieties of vegetables and cash crops, 20 varieties of fruits and 15 kinds of freshwater fishes and livestock products. The data on market potential is compiled in Annex F of

Volume 2. By referring to this guideline, the crop marketability is evaluated in terms of quantified market potential on the administrative district-by-district bases. The evaluation criteria is set up as below.

- Crops suitable for promoting crop diversification have less marketable volume as compared with the demand of a specific administrative district where one particular scheme is located major market situated nearby or easily accessed from the scheme.
- Crops not suitable for promoting crop diversification have marketable quantity exceeding over more than twice of the demand in the specific administration district.

3.2.8 Investment performance with regard to crop diversification

This factor is evaluated for the purpose of judging the priority among categories and crops of which suitability to promote crop diversification are both identified. The evaluation procedure is based on economic viability indicated by net present value and benefit-cost ratio.

3.3 Procedure of Evaluation

3.3.1 General procedure

The potential of crop diversification for each non-granary irrigation scheme is evaluated category by category based on the following seven stepwise procedure as illustrated in Fig. 1.

- Step 1 : Evaluation water resources availability,
- Step 2 : Evaluation of farmers' intention towards continuation of paddy cultivation and introduction of crop diversification,
- Step 3 : Evaluation of land suitability for carrying out direct seeding and mechanized plowing and harvesting in growing paddy,

- Step 4 : Evaluation of soil and climatic suitability and limitations for the cultivation of specific crops,
- Step 5 : Evaluation of crop profitability,
- Step 6 : Evaluation of crop marketability, and
- Step 7 : Evaluation of investment performance with regard to crop diversification.

The flow chart of evaluation procedure is illustrated in Fig. 2. In general, evaluation of factors in each Category starts from Step 1 and ends Step 7 for the respective schemes. As Step 3 is the optional gate to evaluate land suitability for conducting mechanized paddy cultivation practices, all Categories other than Category 6 jumps evaluation in Step 3. Before entering Step 1, the following two items are preliminarily checked to understand the present condition on how a scheme is utilized by beneficially farmers:

- Type of irrigation water intake facilities, and
- Planted area for the last three years.

3.3.2 Evaluation procedure for Category 1

In Step 1, one scheme has potential for promoting intensive short-term upland crop cultivation under irrigated condition if available water resources are enough for double cropping of paddy and short during the presaturation period of the off season. Upland crops can be grown maximum twice a year under irrigated condition in case that available water resources can meet irrigation water demand only for the main season paddy. Irrigated cropping of upland crops are limited to the main season if available water resources are insufficient for paddy cultivation. Therefore, each scheme can pass Step 1 with the exceptions of control drainage and inundation schemes.

In Step 2, schemes are evaluated as possible for promoting crop diversification and then go to Step 4. To provide information on technical and economical choice of upland crops if requested, other schemes also move down to Step 4 additionally.

In Step 4 after skipping Step 3, suitable upland crops are firstly identified through soil-crop-suitability assessment. Further, suitable varieties of upland crops are selected among the above crops identified paying special attention agro-climatic condition in lowland areas. If there is an identified and selected crop, schemes enter into the next step.

In Step 5, net income data of the selected crops are compared with that earned from single cropping of paddy. In case of higher net income expected, schemes shift to the next step.

In Step 6, marketability of upland crops confirmed its profitability are evaluated through comparison with the local demand in the District where schemes are located and in the local marketing centers. Usually, mono-cropping of the specific upland crop is very risky from the viewpoints of crop management and marketing. In this connection, crop production is estimated based on such assumed figures as the national average yield and the maximum planted area equivalent to 50% of the scheme's irrigable area for each of profitable crops.

In Step 7, economic viability is evaluated in terms of benefit-cost ratio and net present value. For this, benefit and cost are estimated on the basis of the assumption as below. The result is used for determining the priority among marketable upland crops and in comparison with other categories.

- Cost and benefit are estimated on the unit area basis,
- Cost required for upgrading drainage and access conditions is assumed to be M\$8,000/ha and time required for constructing these on-farm service facilities is one year, and
- Benefit born before diversification depends on single cropping of paddy and after diversification comes from marketable upland crops in the same planted area of paddy. Crop budget figures refer to those used in evaluating crop profitability. Buildup period to reach the target yields of upland crops is also assumed to be five years.

3.3.3 Evaluation procedure for Category 2

In Step 1, consideration is given only to improve drainage and farm access conditions for evaluating potential for converting paddy fields to perennial crop fields. Thus, all the schemes except control drainage and inundation types go to the next step.

In Step 2, the same procedure taken for Category 1 is applied and therefore schemes jump Step 3 and enter to Step 4.

In Step 4, suitability of fruit and industrial tree crops is assessed from the viewpoint of soil-crop suitability relationship. Then, identified tree crops as suitable are evaluated on the basis of agro-climatic condition of each scheme. When a tree crop is identified and selected, schemes shift to the next step.

In Step 5, annualized net income is calculated according to the economic life of a tree crop and then compared with net income gained from single cropping of paddy. If the annualized income is higher, schemes enter into the next step.

In Step 6, profitable tree crops are evaluated to confirm those marketability as compared with local demand on the administrative district basis firstly and in major markets secondly. Crop production amount is equal to the annualized yield used for estimate of crop profitability.

In Step 7, the same procedure as taken for Category 1 is applied. Cost required for upgrading drainage and farm access conditions is assumed to be M\$4,000/ha for scheme of which soils have marginally drainage limitation to crop growth and M\$8,000/ha for the case of very marginally drainage limitation.

3.3.4 Evaluation procedure for Category 3

In Step 1, schemes with sufficient water resources for the main season paddy cultivation are identified as possible schemes where two cropping system can be promoted. While, schemes with water shortage problems during the main season are deleted from further evaluation in Step 2 and onward.

In Step 2, schemes that are evaluated as possible for promoting crop diversification and intensive double cropping of paddy go to Step 4. In case of schemes with no possibility of improving the present paddy cultivation pattern, further evaluation in Step 4 and onward is made to get information on suitable crops with those profitability and marketability as reference data.

In Step 4 after skipping Step 3, short-term upland crops suitable for the off season cultivation are identified resulting from assessment of soil-crop-suitability. Then, crop selection is made after confirming crop adaptability to agro-ecological situation in each scheme. If there is identified and selected crop, schemes move to the next step.

In Step 5, net income of the main season paddy is estimated taking into account increase in average unit yield from 2.25 ton/ha to 3.5 ton/ha through improvement of farming practices. The off season upland crops have the same yield level of Category 1.

In Step 6, evaluation of marketability is made for the off season upland crops by applying the similar method to Category 1.

In Step 7, additional investment requirement is assumed to be M\$4,000/ha. Benefit estimate and economic viability confirmation are made following the same procedure employed for Category 7.

3.3.5 Evaluation procedure for Category 4

In Step 1, no attention is paid to availability of water resources so that all the schemes can pass this step.

In Steps 2 and 3, no evaluation of these two factors is made as possibility of introducing this Category is examined from the technical and economical viewpoints.

In Step 4, soils with excessively drained feature are evaluated as possible for converting paddy fields to animal grazing land. In case of growing animal feeding crops, those suitability is assessed from the soil-crop-suitability assessment. When both results indicate as suitable for conversion of paddy fields for the livestock purpose, schemes go to the next step.

In Step 5, profitability is evaluated focussing upon the contribution of both grazing and feeding practices to livestock outputs. For this purpose, the average annual income is estimated based on beef production value obtained from unit yield of animal feeding crops. If the profit is higher than that derived from single cropping of paddy, schemes enter into the next step.

In Step 6 and , marketability is evaluated with the same procedure of Category 1.

In Step 7, additional investment cost is assumed to be M\$500/ha for the use of paddy fields to rear animals and M\$4,000/ha for growing animal feeding crops. Benefit is estimated referring to the result of profit evaluation.

3.3.6 Evaluation procedure for Category 5

In Step 1, special attention is paid to availability of sufficient water resources to meet daily freshwater requirement. If the available water resources are enough to grow paddy twice a year, schemes enter into the next step. For the case of control drainage schemes located along the coast in Sarawak, intake of brackish water is evaluated according to topographic condition.

In Steps 2 and 3, all the schemes with sufficient water resources skip these two steps with the same reason of Category 4.

In Step 4, soils with heavy texture are prerequisite to convert paddy fields to fish ponds. From the agro-climatic viewpoints, schemes with no effect of flooding are recognized as possible for promoting freshwater fish pond culture. Schemes that can pass these two checking points move to the next step. In case of brackish water fish culture, flooding or excess inundation problem is only assessed.

In Step 5, profitability is evaluated on the basis of annualized net income earned from carp, freshwater shrimp and brackish water prawn cultures by in excavated fish pond with modern practices. If higher profit is expected as compared with single cropping of paddy, schemes shift to the next step.

In Step 6, the evaluation procedure of marketability is the same as Category 1.

In Step 7, required cost for excavating fish pond is assumed to be M\$10,000/ha. Benefit is estimated by referring to the profitability evaluation results.

3.3.7 Evaluation procedure for Category 6

In Step 1, supply of irrigation water for the off season is the most important key factor for this category. Schemes pass this step if available water resources can meet the normal irrigation water demand for the off season paddy.

In Step 2, schemes evaluated as possible for promoting double cropping of paddy enter into the next step.

In Step 3, land suitability for performing mechanized farming practices is evaluated. Schemes identified as suitable pass this step and go to the next step.

In Step 4, soil and agro-climatic suitabilities are reconfirmed and schemes with no limitation shift to the next step.

In Step 5, assumption is made in terms of increase in unit yield of paddy from 2.25 ton/ha to 3.5 ton/ha per one season. Schemes pass this step.

In Step 7 after skipping Step 6, cost is assumed to be M\$4,000/ha to improve on farm-service facilities matching with undertaking of mechanized farming practices. Benefit estimate is made referring the results of profitability evaluation.

3.3.8 Evaluation procedure for Category 7

Evaluation of potential for the Category 7 is to be made in case that a scheme is presently used for the paddy cultivation purpose and no potential use for the Categories 1 to 6 is identified.

In Step 1, schemes with available water resources for the main season paddy cultivation goes to the next step.

In Step 2, schemes shift the next step if identified as impossible for promoting crop diversification from the social viewpoint.

In Step 4 after skipping Step 3, soil limitations to growth of paddy are reconfirmed. If schemes have poorly drained soils caused by frequent flooding and stagnant water problems, these are deleted from further evaluation. In this connection, inundation and controlled drainage schemes can be taken into consideration only for the case that more than half of the irrigable area is grown with paddy for the last three years. All the schemes that pass this step are identified as Category 7 without further evaluation of factors in Step 5 and onward.

3.3.9 Evaluation procedure for Category 8

If no crop diversification potential is found through evaluation for the Categories 1 to 7, the following factors are to be evaluated. These are water availability and soil limitation to crop growth. Schemes with no available water resources and unsuitable soils for crop growth are defined as Category 8.

4. RESULTS OF EVALUATION

The evaluation results of crop diversification potential are adjusted to agro-climatic factors, regional market demand for diversified crops and investment performance. The State of Perak is divided into six agro-ecological zones, Regions 5 to 10. As described in Appendix D of Volume 2, each Region has different advantages in growing perennial lowland crops. Taking into consideration this regional climatic suitability, recommendable crops are selected as shown in Table 1 and some of crops judged as suitable in each step of the potential evaluation are deleted.

Regarding the Category 6, adjustment is made on the basis of such conditions as scheme size of more than 100 ha and main season paddy planted area covering more than half of irrigable area in each scheme.

If marketable quantities of specific crops produced in one non-granary irrigated area is over the demand within an administrative district, possibility of marketing to large consumption centers, Penang and Kuala Lumpur, is examined by comparing surplus of marketable quantities with the regional market demand.

As a result of above process, the crop diversification potential is adjusted to the present situation category by category for each scheme. Table 2 shows the summary of crop diversification potential evaluation. The process of evaluation is attached to this Volume 5 as Appendix in a form of scheme-by-scheme description sheet.

Among 63 non-granary irrigation schemes as shown in Table 2, six schemes have the highest potential for the Category 1 and another 37 schemes for the Category 2. There are 10 schemes to which the first priority is put for the Category 6 with potential for crop diversification under the Categories 1, 2, 3 and 5. In addition, six schemes are classified as the Category 3 and four schemes as the Category 7 both having the first priority.

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Tables & Figures

Table 1 Priority Order of Selected Crops for Each Scheme

State : Perak (1/3)

Code No.	Scheme	Annual Crops	Perennial Crops
PK001	Batu Kurau	DP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*
PK002	Air Kuning	VG, SP, GG*	DM, CN, SC, PL*, GV*, CR*
PK003	Jelai dan Tambahan	VG, SP, GG*	CN, SC, DM*, PL*, GV*, CR*
PK004	Pantai Besar	VG, SP, GG*	DM, CN, SC, PL*, GV*, CR*, FC
PK005	Jemerang Setar	DP, VG, GG*	CN, SC, DM*, PL*, GV*, CR*
PK006	Bukit Gantang	SP, VG*, GG*	CN, PR, DM*, GV*, CR*
PK007	Jebong	VG*, GG*	CN, PR, DM*, GV*, CR*
PK008	Bukit Bertam	VG, SP, GG*	CN, SC, DM*, PL*, GV*, CR*
PK009	Beruas/Tambahan	SP	RB, DM*, GV*
PK010	Dendang A.	SP	DM, RB, GV*, FC
PK011	Dendang B	SP	RB, DM*
PK012	Sg. Segar	SP, VG*	
PK013	Sg. Chop	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK014	Sg. Simpoh Kiri	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK015	Sg. Rambutan	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK016	Sg. Damak	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK017	Sg. Berdarah	DP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK018	Sg. Nor	DP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK019	Sg. Garok	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK020	Batu 3, Kg. Medan	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK021	Gua Petai	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK022	Bukit Torak/Lubuk Sengga	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, CR*, FC
PK023	Tapah Hulu	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, GR*, FC
PK024	Bukit Tunggal	SP	RB, DM*, GV*
PK025	Belukar Hantu	SP, VG*, GG*	CN, SC, DM*, PL*, GV*, GR*, FC

Remarks: Priority order is shown from left to right for each crop group.

*; Needs for regional marketing promotion

DP; Double cropping of paddy

SP; Single cropping of paddy

VG; Vegetables

GG; Ginger

DM; Durian/mango

GV; Guava

CN; Cashewnut

CR; Citrus

PL; Pineapple

RB; Rubber

SC; Sugarcane

PR; Pepper

FC; Freshwater fish pond

Table 1 Priority Order of Selected Crops for Each Scheme

State : Perak (2/3)

Code No.	Scheme	Annual Crops	Perennial Crops
PK026	Bdg. Jeliang	VG, SP, GG*	DM, CN, PR, SC, CR, RL*, GV*, FC
PK027	Ujib	VG, GG*	DM, CN, PR, SC, CR, PL*, GV*, FC
PK028	Padang Rengas	VG, GG*	CN, PR, SC, DM*, PL*, GV*, CR*
PK029	Bdg. Senggang	VG, SP, GG*	DM, CN, PR, SC, CR, PL*, GV*
PK030	Seterus	VG, GG*	DM, CN, PR, SC, PL*, GV*, CR*
PK031	Bdg. Ketiau	VG, SP, GG*	DM, CN, PR, SC, CR, PL*, FC
PK032	Beluru	DP, VG, GG*	DM, CN, PR, SC, PL*, GV*, CR*
PK033	Bendang Lempar	DP, VG, GG*	DM, SC, PR, SC, PL*, GV*, CR*, FC
PK034	Trosor	VG, SP, GG*	DM, PL, CN, PR, SC, GV, CR, FC
PK035	Kg. Ngor	VG, SP, GG*	DM, PL, CN, PR, SC, CR, GV*, FC
PK036	Berala	VG, SP, GG*	DM, PL, CN, PR, SC, CR, GV*, FC
PK037	Kroh Hulu	VG, SP, GG	DM, PL, CN, PR, SC, GV, CR, FC
PK038	Bendang Talang	VG, SP, GG*	DM, CN, PR, SC, PL*, GV*, CR*, FC
PK039	Bendang Ulu Kenas	SP	DM, RB, GV*, FC
PK040	Kota Lama Kiri	DP, VG, GG*	DM, CN, PR, SC, PL*, GV*, CR*, FC
PK041	Saiong	DP, VG, GG*	DM, CN, PR, SC, PL*, GV*, CR*
PK042	Chepias	SP	DM, RB, GV*, FC
PK043	Jalong	VG, GG	DM, PL, CN, PR, SC, GV, CR, FC
PK044	Bendang Kuala Dal	VG, GG	DM, PL, CN, PR, SC, GV, CR, FC
PK045	Sauk	VG, GG*	DM, CN, PR, SC, CR, PL*, GV*, FC
PK046	Lenggong	SP, VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*
PK047	Sumpitan	DP, VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*
PK048	Bendang Kg. Padang Gerik	VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*, FC
PK049	Gelok	SP, VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*
PK050	Bendang Kg. Kerunai	VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*, FC

Remarks: Priority order is shown from left to right for each crop group.

*; Needs for regional marketing promotion

DP; Double cropping of paddy

SP; Single cropping of paddy

VG; Vegetables

GG; Ginger

DM; Durian/mango

GV; Guava

CN; Cashewnut

CR; Citrus

PL; Pineapple

RB; Rubber

SC; Sugarcane

PR; Pepper

FC; Freshwater fish pond

Table 1 Priority Order of Selected Crops for Each Scheme

State : Perak (3/3)

Code No.	Scheme	Annual Crops	Perennial Crops
PK051	Bendang Pdg. Setang Grik	SP, VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*, FC
PK052	Bendang Kg. Padang Kunyit Gerik	VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*, FC
PK053	Bendang Kg. Ulu Kenderong Gerik	VG*, GG*	RB, DM*, GV*, FC*
PK054	Bendang Kg. Bonggor Gerik	VG*, GG*	CN, PR, SC, DM*, PL*, GV*, CR*, FC
PK055	Seberang Perak Peringkat 1 & Tam.	SP	RB, DM*, GV*
PK056	Bota/Lambor	SP	RB, DM*, GV*
PK057	Senin	SP	DM, RB, GV*
PK058	Lambor kiri	SP	RB, DM*, GV*
PK059	Parit Bukit Cupak & Merua	SP	RB, DM*, GV*
PK060	Changkat Jong	DP, VG*	
PK061	Ulu Kuang	VG, GG	DM, PL, CN, PR, SC, GV, CR
PK062	Ulu Chemor	VG, GG	DM, PL, CN, PR, SC, GV, CR, FC
PK063	Sg. Jernang	VG, GG*	DM, PL, CN, PR, SC, CR, GV*, FC

Remarks: Priority order is shown from left to right for each crop group.

*; Needs for regional marketing promotion

DP; Double cropping of paddy

SP; Single cropping of paddy

VG; Vegetables

GG; Ginger

DM; Durian/mango

GV; Guava

CN; Cashewnut

CR; Citrus

PL; Pineapple

RB; Rubber

SC; Sugarcane

PR; Pepper

FC; Freshwater fish pond

Table 2 Crop Diversification Potential for Each Scheme

State : Perak (1/2)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
PK001	Batu Kurau	*4	*2	*4	.	.	*1	.	.
PK002	Air Kuning	*1	*3	*2	.	.	.	*3	.
PK003	Jelai dan Tambahan	*1	*3	*2	.	.	.	*3	.
PK004	Pantai Besar	*2	*2	*1	.	*3	.	*3	.
PK005	Jemerang Setar	*2	*3	*2	.	.	*1	.	.
PK006	Bukit Gantang	*4	*1	*4	.	.	.	*2	.
PK007	Jebong	*4	*1	.	.	.	.	.	.
PK008	Bukit Bertam	*1	*3	*2	.	.	.	*3	.
PK009	Beruas/Tambahan	.	*1	.	.	.	.	*2	.
PK010	Dendang A.	.	*1	.	.	*2	.	*3	.
PK011	Dendang B	.	*1	.	.	.	.	*2	.
PK012	Sg. Segar	*4	.	*4	.	.	.	*1	.
PK013	Sg. Chop	*4	*1	*4	.	*2	.	*3	.
PK014	Sg. Simpul Kiri	*4	*1	*4	.	*3	.	*2	.
PK015	Sg. Rambutan	*4	*1	*4	.	*3	.	*2	.
PK016	Sg. Damak	*4	*1	*4	.	*3	.	*2	.
PK017	Sg. Berdarah	*4	*2	*4	.	.	*1	.	.
PK018	Sg. Nor	*4	*2	*4	.	.	*1	.	.
PK019	Sg. Garok	*4	*1	*4	.	*3	.	*2	.
PK020	Batu 3, Kg. Medan	*4	*1	*4	.	.	.	*2	.
PK021	Gua Petai	*4	*1	*4	.	.	.	*2	.
PK022	Bukit Torak/Lubuk Sengga	*4	*1	*4	.	*3	.	*2	.
PK023	Tapah Hulu	*4	*1	*4	.	*3	.	*2	.
PK024	Bukit Tunggai	.	*1	.	.	.	.	*2	.
PK025	Belukar Hantu	*4	*1	*4	.	*3	.	*2	.
PK026	Bdg. Jeliang	*2	*2	*1	.	*3	.	*3	.
PK027	Ujib	*2	*1	.	.	*3	.	.	.
PK028	Padang Rengas	*2	*1	.	.	.	.	.	.
PK029	Bdg. Senggang	*1	*3	*2	.	.	.	*3	.
PK030	Seterus	*2	*1	.	.	.	.	.	.
PK031	Bdg. Ketiou	*1	*2	*2	.	*3	.	.	.
PK032	Beluru	*2	*3	*2	.	.	*1	.	.
PK033	Bendang Lempar	*2	*3	*2	.	*3	*1	.	.
PK034	Trosor	*2	*2	*1	.	*3	.	*3	.
PK035	Kg. Ngor	*2	*2	*1	.	*3	.	*3	.
PK036	Berala	*1	*2	*2	.	*3	.	*3	.
PK037	Kroh Hulu	*2	.	*1	.	.	.	.	.
PK038	Bendang Talang	*2	*2	*1	.	*3	.	*3	.
PK039	Bendang Ulu Kenas	.	*1	.	.	*2	.	*3	.
PK040	Kota Lama Kiri	*2	*3	*2	.	*3	*1	.	.
PK041	Saiong	*2	*3	*2	.	.	*1	.	.
PK042	Chepias	.	*1	.	.	*3	.	*2	.
PK043	Jalong	*2	*1	.	.	*3	.	.	.
PK044	Bendang Kuala Dal	*2	*1	.	.	*3	.	.	.
PK045	Sauk	*2	*1	.	.	*3	.	.	.

Table 2 Crop Diversification Potential for Each Scheme

State : Perak (2/2)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
PK046	Lenggong	*4	*1	*4	.	.	.	*2	.
PK047	Sumpitan	*4	*2	*4	.	.	*1	.	.
PK048	Bendang Kg. Padang Gerik	*4	*1	.	.	.	.	.	.
PK049	Gelok	*4	*1	*4	.	.	.	*2	.
PK050	Bendang Kg. Kerunai	*4	*1	.	.	*2	.	.	.
PK051	Bendang Pdg. Setang Grik	*4	*1	*4	.	*3	.	*2	.
PK052	Bendang Kg. Padang Kunyit Gerik	*4	*1	.	.	*2	.	.	.
PK053	Bendang Kg. Ulu Kenderong Gerik	.	*1	.	.	*2	.	.	.
PK054	Bendang Kg. Bonggor Gerik	*4	*1	.	.	*2	.	.	.
PK055	Seberang Perak Peringkat 1 & Tam.	.	*2	.	.	.	.	*1	.
PK056	Bota/Lambor	.	*2	.	.	.	.	*1	.
PK057	Senin	.	*1	.	.	.	.	*2	.
PK058	Lambor kiri	.	*2	.	.	.	.	*1	.
PK059	Parit Bukit Cupak & Merua	.	*1	.	.	.	.	*2	.
PK060	Changkat Jong	*4	.	*4	.	.	*1	.	.
PK061	Ulu Kuang	*2	*1	.	.	.	.	.	.
PK062	Ulu Chemor	*2	*1	.	.	*3	.	.	.
PK063	Sg. Jernang	*2	*1	.	.	*3	.	.	.
*1	Super category	6	37	6	.	.	10	4	.
*2	2nd priority category	20	14	11	.	7	.	19	.
*3	3rd priority category	.	9	.	.	24	.	13	.
*4	4th priority category with needs of regional marketing promotion	25	.	20	.	.	.	.	.

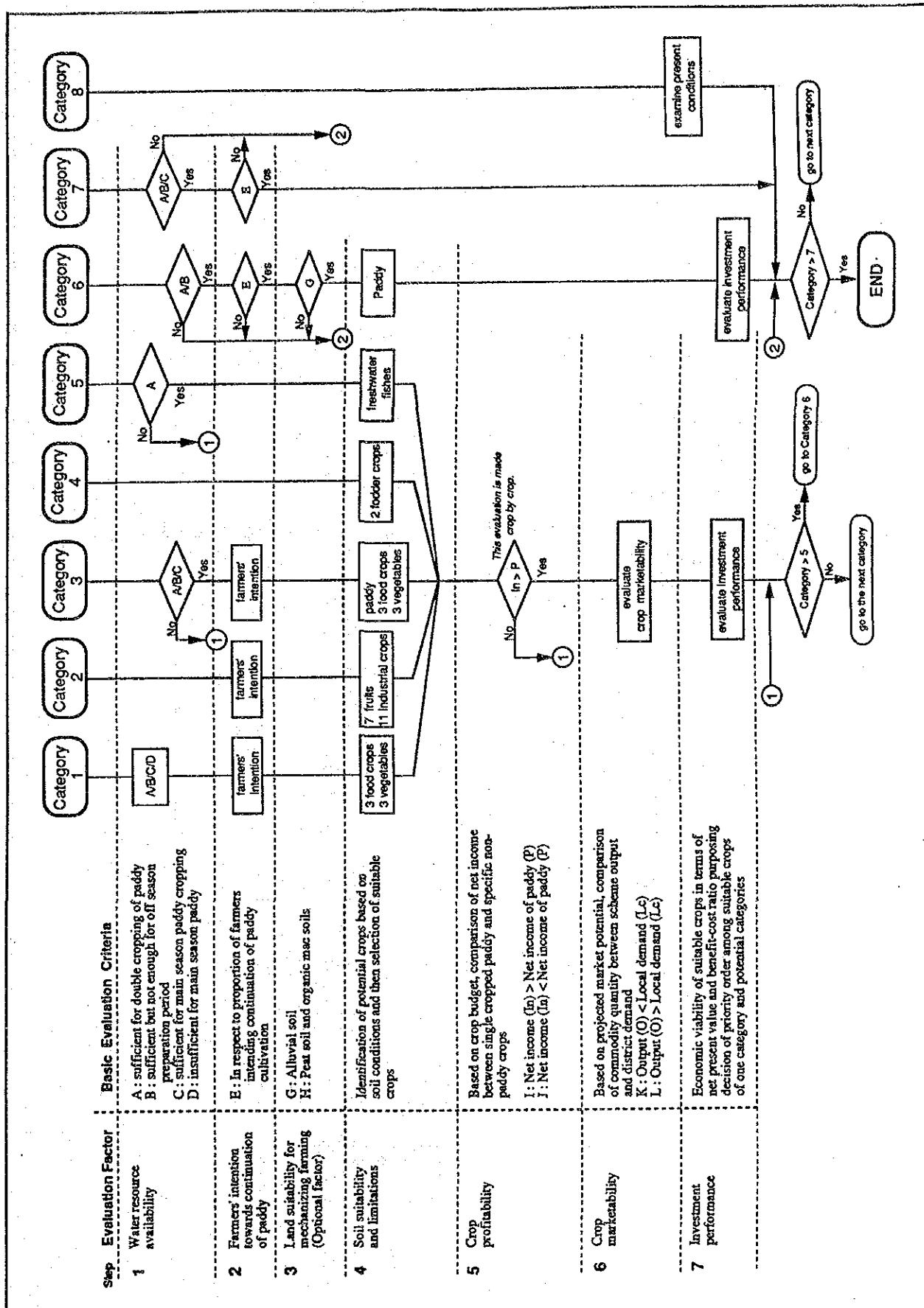
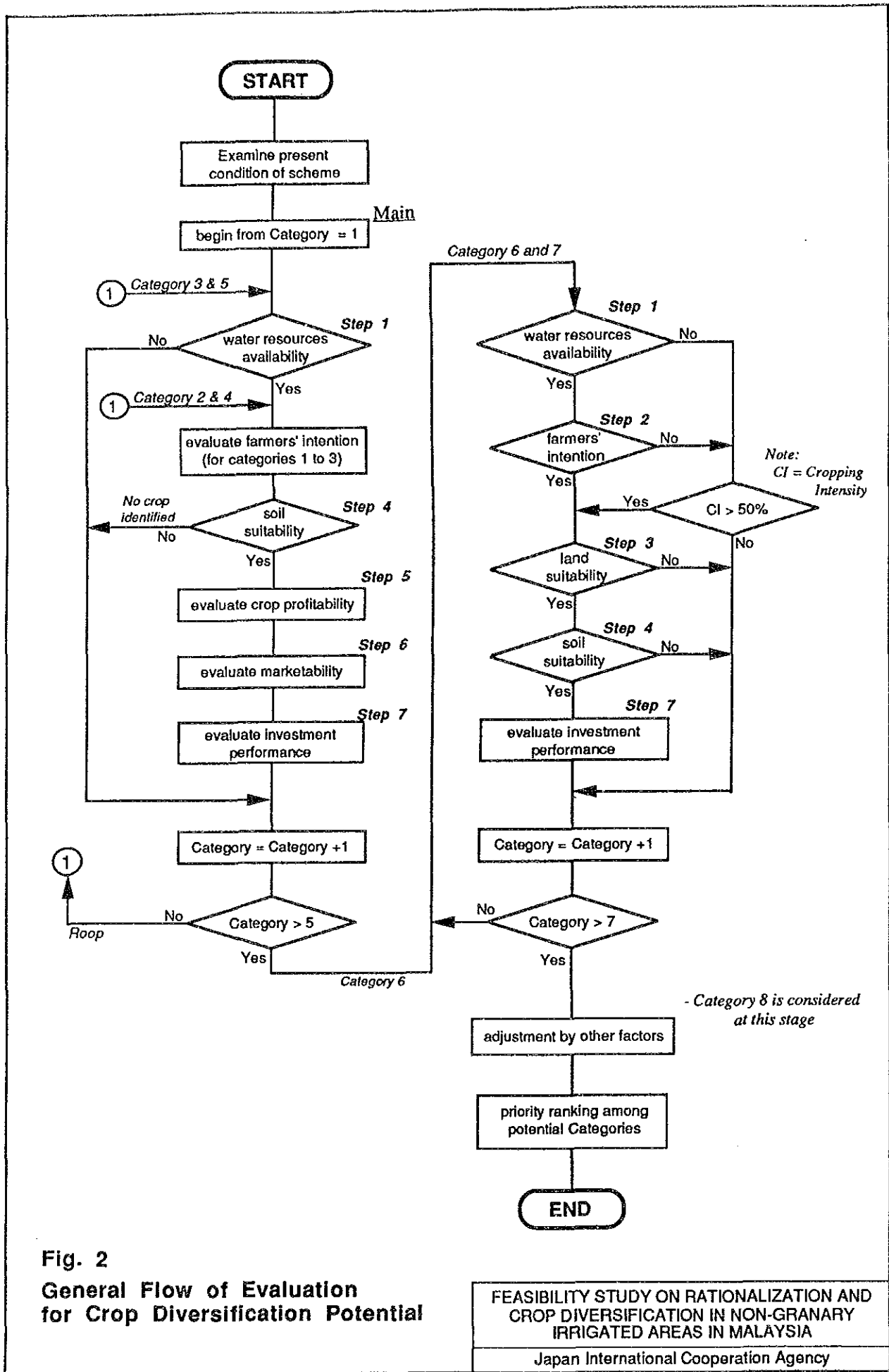


Fig. 1

Criteria and Procedure of Evaluation for Crop Diversification Potential

FEASIBILITY STUDY ON RATIONALIZATION AND CROP DIVERSIFICATION IN NON-GRANARY IRRIGATED AREAS IN MALAYSIA

Japan International Cooperation Agency



**Feasibility Study on Rationalization and Crop Diversification
in Non-granary Irrigated Areas in Malaysia**

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Appendix

Results of Evaluation for Crop Diversification Potential

Remarks

Category

Category 1	<i>Schemes to be converted to high value crop cultivation under irrigated condition</i>
Category 2	<i>Schemes to be converted to tree crop cultivation</i>
Category 3	<i>Schemes to introduce two-cropping system planting paddy during the main season and short-term annual crops during the off-season</i>
Category 4	<i>Schemes to be converted to animal feeding crop cultivation or cattle raising fields</i>
Category 5	<i>Schemes to be converted to freshwater fish culture ponds</i>
Category 6	<i>Schemes to be positively maintained as mini-granary areas</i>
Category 7	<i>Schemes to be maintained as paddy cultivation areas within a definite period of time for social welfare purposes and thereafter to be further categorized</i>
Category 8	<i>Schemes to be converted to housing/industrial and other uses</i>

Evaluation Item in Each Step

Step 1	<i>Available irrigation water quantity</i>
Step 2	<i>Farmers' intention towards paddy cultivation</i>
Step 3	<i>Land suitability for mechanized farming practices</i>
Step 4	<i>Soil suitability and limitations to diversify crops</i>
Step 5	<i>Crop profitability</i>
Step 6	<i>Crop marketability</i>
Step 7	<i>Investment performance</i>

- Note:
- If any item is examined, steps for the respective categories are indicated with a star mark "*".*
 - In step 7, BIC ratio at the interest rate of 10% is described.*

Evaluation Results of Each Scheme

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Crop Diversification Potential for PK001

Code Number : PK001 Name of Scheme : Batu Kurau
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 562 Off : 562
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	8,430
				Groundnut	A	A	A	0.9	1,467
				Vegetable	A	A	-	13.8	9,947
2	*	*	*	Durian/Mango	C	A	-	11.0	3,822
				Guava	C	A	-	3.1	13,488
				Banana	C	A	-	0.7	5,901
				<u>Cashewnut</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>8.7</u>	<u>989</u>
				Papaya	B	A	-	0.6	14,050
				Citrus	B	A	-	2.9	5,901
				Pineapple	A	A	-	9.5	13,488
				Coconut	A	-	A		2,462
				Oilpalm	C	A	A	0.9	10,790
				Cocoa	C	A	A	0.6	1,742
				Rubber	B	A	A	0.6	770
				Sago	C	-	A		5,058
				Coffee	A	A	A	0.7	495
				<u>Tea</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>10.4</u>	<u>731</u>
				Clove	B	A	A	1.1	174
Tabacco	B	A	A	0.7	5,058				
<u>Sugarcane</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>3.3</u>	<u>11,240</u>				
<u>Pepper</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>16.4</u>	<u>1,658</u>				
3	*	*	*	Maize	A	-	-		1,827
				Sorghum	A	-	A		2,108
				Ginger	B	A	-	2.5	8,430
				Groundnut	A	A	A	0.9	1,467
				Vegetable	A	A	-	13.8	9,947
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK002

Code Number : PK002 Name of Scheme : Air Kuning
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 127 Off : 127
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,905
				Groundnut	A	A	A	0.9	331
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>2,248</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	864
				Guava	C	A	-	3.1	3,048
				Banana	C	A	-	0.7	1,334
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>224</u>
				Papaya	B	A	-	0.6	3,175
				Citrus	B	A	-	2.9	1,334
				Pineapple	A	A	-	9.5	3,048
				Coconut	A	-	A		556
				Oilpalm	C	A	A	0.9	2,438
				Cocoa	C	A	A	0.6	394
				Rubber	B	A	A	0.6	174
				Sago	C	-	A		1,143
				Coffee	A	A	A	0.7	112
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>165</u>
				Clove	B	A	A	1.1	39
Tabacco	B	A	A	0.7	1,143				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>2,540</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>375</u>				
3	*	*	*	Maize	A	-	-		413
				Sorghum	A	-	A		476
				Ginger	B	A	-	2.5	1,905
				Groundnut	A	A	A	0.9	331
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>2,248</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK003

Code Number : PK003 Name of Scheme : Jelai dan Tambahan
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 278 Off : 278
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	4,170
				Groundnut	A	A	A	0.9	726
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>4,921</u>
2	*	*	*	Durian/Mango	C	A	-	11.0	1,890
				Guava	C	A	-	3.1	6,672
				Banana	C	A	-	0.7	2,919
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>482</u>
				Papaya	B	A	-	0.6	6,950
				Citrus	B	A	-	2.9	2,919
				Pineapple	A	A	-	9.5	6,672
				Coconut	A	-	A		1,218
				Oilpalm	C	A	A	0.9	5,338
				Cocoa	C	A	A	0.6	862
				Rubber	B	A	A	0.6	381
				Sago	C	-	A		2,502
				Coffee	A	A	A	0.7	245
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>361</u>
			Clove	B	A	A	1.1	86	
			Tabacco	B	A	A	0.7	2,502	
			<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>5,560</u>	
			<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>820</u>	
3	*	*	*	Maize	A	-	-		904
				Sorghum	A	-	A		1,043
				Ginger	B	A	-	2.5	4,170
				Groundnut	A	A	A	0.9	726
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>4,921</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK004

Code Number : PK004 Name of Scheme : Pantai Besar
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 93 Off : 93
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,395
				Groundnut	A	A	A	0.9	243
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,646</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	632
				Guava	C	A	-	3.1	2,232
				Banana	C	A	-	0.7	977
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>164</u>
				Papaya	B	A	-	0.6	2,325
				Citrus	B	A	-	2.9	977
				Pineapple	A	A	-	9.5	2,232
				Coconut	A	-	A		407
				Oilpalm	C	A	A	0.9	1,786
				Cocoa	C	A	A	0.6	288
				Rubber	B	A	A	0.6	127
				Sago	C	-	A		837
				Coffee	A	A	A	0.7	82
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>121</u>
Clove	B	A	A	1.1	29				
Tabacco	B	A	A	0.7	837				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,860</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>274</u>				
3	*	*	*	Maize	A	-	-		302
				Sorghum	A	-	A		349
				Ginger	B	A	-	2.5	1,395
				Groundnut	A	A	A	0.9	243
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,646</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK005

Code Number : PK005 Name of Scheme : Jemerang Setar
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 191 Off : 191
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (Ton)
1	*	*	*	Ginger	B	A	-	2.5	2,865
				Groundnut	A	A	A	0.9	499
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,381</u>
2	*	*	*	Durian/Mango	C	A	-	11.0	1,299
				Guava	C	A	-	3.1	4,584
				Banana	C	A	-	0.7	2,006
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>336</u>
				Papaya	B	A	-	0.6	4,775
				Citrus	B	A	-	2.9	2,006
				Pineapple	A	A	-	9.5	4,584
				Coconut	A	-	A		837
				Oilpalm	C	A	A	0.9	3,667
				Cocoa	C	A	A	0.6	592
				Rubber	B	A	A	0.6	262
				Sago	C	-	A		1,719
				Coffee	A	A	A	0.7	168
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>248</u>
Clove	B	A	A	1.1	59				
Tabacco	B	A	A	0.7	1,719				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,820</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>563</u>				
3	*	*	*	Maize	A	-	-		621
				Sorghum	A	-	A		716
				Ginger	B	A	-	2.5	2,865
				Groundnut	A	A	A	0.9	499
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,381</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

* : Potential categories

A : Suitable

B : Marginal suitable due to lack of drainage facilities

C : Marginal suitable due to limited factors other than drainage conditions

- : Not suitable

Crop Diversification Potential for PK006

Code Number : PK006 Name of Scheme : Bukit Gantang
 State : Perak District : Larut
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 981 Off : 981
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	14,715
				Groundnut	A	A	A	0.9	2,560
				Vegetable	A	A	-	13.8	17,364
2	*	*	*	Durian/Mango	C	A	-	11.0	6,671
				Guava	C	A	-	3.1	23,544
				Banana	C	A	-	0.7	10,301
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>1,727</u>
				Papaya	B	A	-	0.6	24,525
				Citrus	B	A	-	2.9	10,301
				Pineapple	A	A	-	9.5	23,544
				Coconut	A	-	A		4,297
				Oilpalm	C	A	A	0.9	18,835
				Cocoa	C	A	A	0.6	3,041
				Rubber	B	A	A	0.6	1,344
				Sago	C	-	A		8,829
				Coffee	A	A	A	0.7	863
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>1,275</u>
				Clove	B	A	A	1.1	304
Tabacco	B	A	A	0.7	8,829				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>19,620</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>2,894</u>				
3	*	*	*	Maize	A	-	-		3,188
				Sorghum	A	-	A		3,679
				Ginger	B	A	-	2.5	14,715
				Groundnut	A	A	A	0.9	2,560
				Vegetable	A	A	-	13.8	17,364
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK007

Code Number : PK007 Name of Scheme : Jebong
 State : Perak District : Matang
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 169 Off : 169
 Trafficability of farm machinery : No good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	2,535
				Groundnut	A	A	A	0.9	441
				Vegetable	A	A	-	13.8	2,991
2	*	*	*	Durian/Mango	C	A	-	11.0	1,149
				Guava	C	A	-	3.1	4,056
				Banana	C	A	-	0.7	1,775
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>227</u>
				Papaya	B	A	-	0.6	4,225
				Citrus	B	A	-	2.9	1,775
				Pineapple	A	A	-	9.5	4,056
				Coconut	A	-	A		740
				Oilpalm	C	A	A	0.9	3,245
				Cocoa	C	A	A	0.6	524
				Rubber	B	A	A	0.6	232
				Sago	C	-	A		1,521
				Coffee	A	A	A	0.7	149
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>220</u>
				Clove	B	A	A	1.1	52
Tabacco	B	A	A	0.7	1,521				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,380</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>499</u>				
3	*	*	*	Maize	A	-	-		549
				Sorghum	A	-	A		634
				Ginger	B	A	-	2.5	2,535
				Groundnut	A	A	A	0.9	441
				Vegetable	A	A	-	13.8	2,991
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5									
6									
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK008

Code Number : PK008 Name of Scheme : Bukit Bertam
 State : Perak District : Larut
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 287 Off : 287
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	4,305
				Groundnut	A	A	A	0.9	749
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>5,080</u>
2	*	*	*	Durian/Mango	C	A	-	11.0	1,952
				Guava	C	A	-	3.1	6,888
				Banana	C	A	-	0.7	3,014
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>505</u>
				Papaya	B	A	-	0.6	7,175
				Citrus	B	A	-	2.9	3,014
				Pineapple	A	A	-	9.5	6,888
				Coconut	A	-	A		1,257
				Oilpalm	C	A	A	0.9	5,510
				Cocoa	C	A	A	0.6	890
				Rubber	B	A	A	0.6	393
				Sago	C	-	A		2,583
				Coffee	A	A	A	0.7	253
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>373</u>
Clove	B	A	A	1.1	89				
Tabacco	B	A	A	0.7	2,583				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>5,740</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>847</u>				
3	*	*	*	Maize	A	-	-		933
				Sorghum	A	-	A		1,076
				Ginger	B	A	-	2.5	4,305
				Groundnut	A	A	A	0.9	749
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>5,080</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK009

Code Number : PK009 Name of Scheme : Beruas/Tambahan
 State : Perak District : Manjung
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 278 Off : 207
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		4,170
				Groundnut	C	A	A		726
				Vegetable	C	A	A		4,921
2	*	*	*	Durian/Mango	C	A	-	11.0	1,890
				Guava	C	A	-	3.1	6,672
				Banana	C	A	-	0.7	2,919
				Cashewnut	C	A	A		489
				Papaya	C	A	-		6,950
				Citrus	C	A	-		2,919
				Pineapple	C	A	-	0.5	6,672
				Coconut	A	-	A		1,218
				Oilpalm	C	A	A	0.9	5,338
				Cocoa	C	A	A	0.6	862
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>381</u>
				Coffee	C	A	A		245
				Tea	C	A	A		361
				Clove	C	A	A		86
Tabacco	C	A	A		2,502				
Sugarcane	C	A	A		5,560				
Pepper	C	A	A		820				
3	*	*	*	Maize	C	-	-		904
				Sorghum	C	-	A		1,043
				Ginger	C	A	-		4,170
				Groundnut	C	A	A		726
				Vegetable	C	A	A		4,921
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5									
6									
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK010

Code Number : PK010 Name of Scheme : Dandang A.
 State : Perak District : Manjung
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 59 Off : 59
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		885
				Groundnut	C	A	A		154
				Vegetable	C	A	A		1,044
2	*	*	*	Durian/Mango	C	A	A	11.0	401
				Guava	C	A	-	3.1	1,416
				Banana	C	A	-	0.7	620
				Cashewnut	C	A	A		104
				Papaya	C	A	-		1,475
				Citrus	C	A	-		620
				Pineapple	C	A	-	0.5	1,416
				Coconut	A	-	A		258
				Oilpalm	C	A	A	0.9	1,133
				Cocoa	C	A	A	0.6	183
				<u>Rubber</u>	A	A	A	1.1	81
				Coffee	C	A	A		52
				Tea	C	A	A		77
				Clove	C	A	A		18
Tabacco	C	A	A		531				
Sugarcane	C	A	A		1,180				
Pepper	C	A	A		174				
3	*	*	*	Maize	C	-	-		192
				Sorghum	C	-	A		221
				Ginger	C	A	-		885
				Groundnut	C	A	A		154
				Vegetable	C	A	A		1,044
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK011

Code Number : PK011 Name of Scheme : Dandang B
 State : Perak District : Manjung
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 160 Off : 160
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		2,400
				Groundnut	C	A	A		418
				Vegetable	C	A	A		2,832
2	*	*	*	Durian/Mango	C	A	-	11.0	1,088
				Guava	C	A	-	3.1	3,840
				Banana	C	A	-	0.7	1,680
				Cashewnut	C	A	A		282
				Papaya	C	A	-		4,000
				Citrus	C	A	-		1,680
				Pineapple	C	A	-	0.5	3,840
				Coconut	A	-	A		701
				Oilpalm	C	A	A	0.9	3,072
				Cocoa	C	A	A	0.6	496
				<u>Rubber</u>	A	A	A	1.1	212
				Coffee	C	A	A		141
				Tea	C	A	A		208
				Clove	C	A	A		50
Tabacco	C	A	A		1,440				
Sugarcane	C	A	A		3,200				
Pepper	C	A	A		472				
3	*	*	*	Maize	C	-	-		520
				Sorghum	C	-	A		600
				Ginger	C	A	-		2,400
				Groundnut	C	A	A		418
				Vegetable	C	A	A		2,832
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK012

Code Number : PK012 Name of Scheme : Sg. Segar
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 3d(t)

Irrigable area (ha) Main : 144 Off : 144
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Vegetable	B	A	-	6.9	2,549
2	*	*	*	Coconut	B	-	A		631
				Sago	A	-	A		1,296
3	*	*	*	Vegetable	B	A	-	6.9	2,549
4	*	*	*	Fodder grasses	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK013

Code Number : PK013 Name of Scheme : Sg. Chop
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 26 Off : 26
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	390
				Groundnut	A	A	A	0.9	68
				Vegetable	A	A	-	13.8	460
2	*	*	*	Durian/Mango	C	A	-	11.0	177
				Guava	C	A	-	3.1	624
				Banana	C	A	-	0.7	273
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>46</u>
				Papaya	B	A	-	0.6	650
				Citrus	B	A	-	2.9	273
				Pineapple	A	A	-	9.5	624
				Coconut	A	-	A		114
				Oilpalm	C	A	A	0.9	499
				Cocoa	C	A	A	0.6	81
				Rubber	B	A	A	0.6	36
				Sago	C	-	A		234
				Coffee	A	A	A	0.7	23
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>34</u>
				Clove	B	A	A	1.1	8
Tabacco	B	A	A	0.7	234				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>520</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>77</u>				
3	*	*	*	Maize	A	-	-		85
				Sorghum	A	-	A		98
				Ginger	B	A	-	2.5	390
				Groundnut	A	A	A	0.9	68
				Vegetable	A	A	-	13.8	460
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK014

Code Number : PK014 Name of Scheme : Sg. Simpol Kiri
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 37 Off : 37
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	555
				Groundnut	A	A	A	0.9	97
				Vegetable	A	A	-	13.8	655
2	*	*	*	Durian/Mango	C	A	-	11.0	252
				Guava	C	A	-	3.1	888
				Banana	C	A	-	0.7	389
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>65</u>
				Papaya	B	A	-	0.6	925
				Citrus	B	A	-	2.9	389
				Pineapple	A	A	-	9.5	888
				Coconut	A	-	A		162
				Oilpalm	C	A	A	0.9	710
				Cocoa	C	A	A	0.6	115
				Rubber	B	A	A	0.6	51
				Sago	C	-	A		333
				Coffee	A	A	A	0.7	33
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>48</u>
				Clove	B	A	A	1.1	11
				Tabacco	B	A	A	0.7	333
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>740</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>102</u>				
3	*	*	*	Maize	A	-	-		120
				Sorghum	A	-	A		139
				Ginger	B	A	-	2.5	555
				Groundnut	A	A	A	0.9	97
				Vegetable	A	A	-	13.8	655
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK015

Code Number : PK015 Name of Scheme : Sg. Rambutan
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 76 Off : 76
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,140
				Groundnut	A	A	A	0.9	198
				Vegetable	A	A	-	13.8	1,345
2	*	*	*	Durian/Mango	C	A	-	11.0	517
				Guava	C	A	-	3.1	1,824
				Banana	C	A	-	0.7	798
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	134
				Papaya	B	A	-	0.6	1,900
				Citrus	B	A	-	2.9	798
				Pineapple	A	A	-	9.5	1,824
				Coconut	A	-	A		333
				Oilpalm	C	A	A	0.9	1,459
				Cocoa	C	A	A	0.6	236
				Rubber	B	A	A	0.6	104
				Sago	C	-	A		684
				Coffee	A	A	A	0.7	67
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>22</u>
Clove	B	A	A	1.1	24				
Tabacco	B	A	A	0.7	684				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,520</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>224</u>				
3	*	*	*	Maize	A	-	-		247
				Sorghum	A	-	A		285
				Ginger	B	A	-	2.5	1,140
				Groundnut	A	A	A	0.9	198
				Vegetable	A	A	-	13.8	1,345
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK016

Code Number : PK016 Name of Scheme : Sg. Damak
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 22 Off : 22
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	330
				Groundnut	A	A	A	0.9	57
				Vegetable	A	A	-	13.8	389
2	*	*	*	Durian/Mango	C	A	-	11.0	150
				Guava	C	A	-	3.1	528
				Banana	C	A	-	0.7	231
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>39</u>
				Papaya	B	A	-	0.6	550
				Citrus	B	A	-	2.9	231
				Pineapple	A	A	-	9.5	528
				Coconut	A	-	A		96
				Oilpalm	C	A	A	0.9	422
				Cocoa	C	A	A	0.6	68
				Rubber	B	A	A	0.6	30
				Sago	C	-	A		198
				Coffee	A	A	A	0.7	19
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>29</u>
				Clove	B	A	A	1.1	7
Tabacco	B	A	A	0.7	198				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>440</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>65</u>				
3	*	*	*	Maize	A	-	-		72
				Sorghum	A	-	A		83
				Ginger	B	A	-	2.5	330
				Groundnut	A	A	A	0.9	57
				Vegetable	A	A	-	13.8	389
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK017

Code Number : PK017 Name of Scheme : Sg. Berdarah
 State : Perak District : Selama
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 101 Off : 101
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,515
				Groundnut	A	A	A	0.9	264
				Vegetable	A	A	-	13.8	1,788
2	*	*	*	Durian/Mango	C	A	-	11.0	687
				Guava	C	A	-	3.1	2,424
				Banana	C	A	-	0.7	1,061
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>178</u>
				Papaya	B	A	-	0.6	2,525
				Citrus	B	A	-	2.9	1,061
				Pineapple	A	A	-	9.5	2,424
				Coconut	A	-	A		442
				Oilpalm	C	A	A	0.9	1,939
				Cocoa	C	A	A	0.6	313
				Rubber	B	A	A	0.6	138
				Sago	C	-	A		909
				Coffee	A	A	A	0.7	89
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>131</u>
				Clove	B	A	A	1.1	31
Tabacco	B	A	A	0.7	909				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>2,020</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>298</u>				
3	*	*	*	Maize	A	-	-		328
				Sorghum	A	-	A		379
				Ginger	B	A	-	2.5	1,515
				Groundnut	A	A	A	0.9	264
				Vegetable	A	A	-	13.8	1,788
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK018

Code Number : PK018 Name of Scheme : Sg. Nor
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 127 Off : 127
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,905
				Groundnut	A	A	A	0.9	331
				Vegetable	A	A	-	13.8	2,248
2	*	*	*	Durian/Mango	C	A	-	11.0	864
				Guava	C	A	-	3.1	3,048
				Banana	C	A	-	0.7	1,334
				<u>Cashewnut</u>	A	A	A	8.7	224
				Papaya	B	A	-	0.6	3,175
				Citrus	B	A	-	2.9	1,334
				Pineapple	A	A	-	9.5	3,048
				Coconut	A	-	A		556
				Oilpalm	C	A	A	0.9	2,438
				Cocoa	C	A	A	0.6	394
				Rubber	B	A	A	0.6	174
				Sago	C	-	A		1,143
				Coffee	A	A	A	0.7	112
				<u>Tea</u>	A	A	A	10.4	165
				Clove	B	A	A	1.1	39
Tabacco	B	A	A	0.7	1,143				
<u>Sugarcane</u>	A	A	A	3.3	2,540				
Pepper	A	A	A	16.4	375				
3	*	*	*	Maize	A	-	-		413
				Sorghum	A	-	A		476
				Ginger	B	A	-	2.5	1,905
				Groundnut	A	A	A	0.9	331
				Vegetable	A	A	-	13.8	2,248
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK019

Code Number : PK019 Name of Scheme : Sg. Garok
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 74 Off : 74
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,110
				Groundnut	A	A	A	0.9	193
				Vegetable	A	A	-	13.8	1,310
2	*	*	*	Durian/Mango	C	A	-	11.0	503
				Guava	C	A	-	3.1	1,776
				Banana	C	A	-	0.7	777
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>130</u>
				Papaya	B	A	-	0.6	1,850
				Citrus	B	A	-	2.9	777
				Pineapple	A	A	-	9.5	1,776
				Coconut	A	-	A		324
				Oilpalm	C	A	A	0.9	1,421
				Cocoa	C	A	A	0.6	229
				Rubber	B	A	A	0.6	101
				Sago	C	-	A		666
				Coffee	A	A	A	0.7	65
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>96</u>
Clove	B	A	A	1.1	23				
Tabacco	B	A	A	0.7	666				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,480</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>218</u>				
3	*	*	*	Maize	A	-	-		241
				Sorghum	A	-	A		278
				Ginger	B	A	-	2.5	1,110
				Groundnut	A	A	A	0.9	193
				Vegetable	A	A	-	13.8	1,310
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK020

Code Number : PK020 Name of Scheme : Batu 3, Kg. Medan
 State : Perak District : Selama
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 57 Off : 57
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	855
				Groundnut	A	A	A	0.9	149
				Vegetable	A	A	-	13.8	1,009
2	*	*	*	Durian/Mango	C	A	-	11.0	388
				Guava	C	A	-	3.1	1,368
				Banana	C	A	-	0.7	599
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>100</u>
				Papaya	B	A	-	0.6	1,425
				Citrus	B	A	-	2.9	599
				Pineapple	A	A	-	9.5	1,368
				Coconut	A	-	A		250
				Oilpalm	C	A	A	0.9	1,094
				Cocoa	C	A	A	0.6	177
				Rubber	B	A	A	0.6	78
				Sago	C	-	A		513
				Coffee	A	A	A	0.7	50
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>74</u>
				Clove	B	A	A	1.1	18
Tabacco	B	A	A	0.7	513				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,140</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>168</u>				
3	*	*	*	Maize	A	-	-		185
				Sorghum	A	-	A		214
				Ginger	B	A	-	2.5	855
				Groundnut	A	A	A	0.9	149
				Vegetable	A	A	-	13.8	1,009
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK021

Code Number : PK021 Name of Scheme : Gua Petai
 State : Perak District : Selama
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 33 Off : 33
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	495
				Groundnut	A	A	A	0.9	86
				Vegetable	A	A	-	13.8	584
2	*	*	*	Durian/Mango	C	A	-	11.0	224
				Guava	C	A	-	3.1	792
				Banana	C	A	-	0.7	347
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>58</u>
				Papaya	B	A	-	0.6	825
				Citrus	B	A	-	2.9	347
				Pineapple	A	A	-	9.5	792
				Coconut	A	-	A		145
				Oilpalm	C	A	A	0.9	634
				Cocoa	C	A	A	0.6	102
				Rubber	B	A	A	0.6	45
				Sago	C	-	A		297
				Coffee	A	A	A	0.7	29
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>43</u>
				Clove	B	A	A	1.1	10
Tabacco	B	A	A	0.7	297				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>660</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>97</u>				
3	*	*	*	Maize	A	-	-		107
				Sorghum	A	-	A		124
				Ginger	B	A	-	2.5	495
				Groundnut	A	A	A	0.9	86
				Vegetable	A	A	-	13.8	584
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK022

Code Number : PK022 Name of Scheme : Bukit Torak/Lubuk Sengga
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 95 Off : 95
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,425
				Groundnut	A	A	A	0.9	248
				Vegetable	A	A	-	13.8	1,682
2	*	*	*	Durian/Mango	C	A	-	11.0	646
				Guava	C	A	-	3.1	2,280
				Banana	C	A	-	0.7	998
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>167</u>
				Papaya	B	A	-	0.6	2,375
				Citrus	B	A	-	2.9	998
				Pineapple	A	A	-	9.5	2,280
				Coconut	A	-	A		416
				Oilpalm	C	A	A	0.9	1,824
				Cocoa	C	A	A	0.6	295
				Rubber	B	A	A	0.6	130
				Sago	C	-	A		855
				Coffee	A	A	A	0.7	84
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>124</u>
				Clove	B	A	A	1.1	29
Tabacco	B	A	A	0.7	855				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,900</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>280</u>				
3	*	*	*	Maize	A	-	-		309
				Sorghum	A	-	A		356
				Ginger	B	A	-	2.5	1,425
				Groundnut	A	A	A	0.9	248
				Vegetable	A	A	-	13.8	1,682
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK023

Code Number : PK023 Name of Scheme : Tapah Hulu
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 66 Off : 66
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	990
				Groundnut	A	A	A	0.9	172
				Vegetable	A	A	-	13.8	1,168
2	*	*	*	Durian/Mango	C	A	-	11.0	449
				Guava	C	A	-	3.1	1,584
				Banana	C	A	-	0.7	693
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>116</u>
				Papaya	B	A	-	0.6	1,650
				Citrus	B	A	-	2.9	693
				Pineapple	A	A	-	9.5	1,584
				Coconut	A	-	A		289
				Oilpalm	C	A	A	0.9	1,267
				Cocoa	C	A	A	0.6	205
				Rubber	B	A	A	0.6	90
				Sago	C	-	A		594
				Coffee	A	A	A	0.7	58
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>86</u>
				Clove	B	A	A	1.1	20
Tabacco	B	A	A	0.7	594				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,320</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>195</u>				
3	*	*	*	Maize	A	-	-		215
				Sorghum	A	-	A		248
				Ginger	B	A	-	2.5	990
				Groundnut	A	A	A	0.9	172
				Vegetable	A	A	-	13.8	1,168
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK024

Code Number : PK024 Name of Scheme : Bukit Tunggal
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 746 Off : 746
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		11,190
				Groundnut	C	A	A		1,947
				Vegetable	C	A	-		13,204
2	*	*	*	Durian/Mango	C	A	-	11.0	5,073
				Guava	C	A	-	3.1	17,904
				Banana	C	A	-	0.7	7,833
				Cashewnut	C	A	A		1,313
				Papaya	C	A	-		18,650
				Citrus	C	A	-		7,833
				Pineapple	C	A	-	0.5	17,904
				Coconut	A	-	A		3,267
				Oilpalm	C	A	A	0.9	14,323
				Cocoa	C	A	A	0.6	2,313
				<u>Rubber</u>	A	A	A	1.1	<u>1,022</u>
				Coffee	C	A	A		656
				Tea	C	A	A		970
				Clove	C	A	A		231
Tabacco	C	A	A		6,714				
Sugarcane	C	A	A		14,920				
Pepper	C	A	A		2,201				
3	*	*	*	Maize	C	-	-		2,425
				Sorghum	C	-	A		2,798
				Ginger	C	A	-		11,190
				Groundnut	C	A	A		1,947
				Vegetable	C	A	-		13,204
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK025

Code Number : PK025 Name of Scheme : Belukar Hantu
 State : Perak District : Selama
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 65 Off : 65
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	975
				Groundnut	A	A	A	0.9	170
				Vegetable	A	A	-	13.8	1,151
2	*	*	*	Durian/Mango	C	A	-	11.0	442
				Guava	C	A	-	3.1	1,560
				Banana	C	A	-	0.7	683
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>114</u>
				Papaya	B	A	-	0.6	1,625
				Citrus	B	A	-	2.9	683
				Pineapple	A	A	-	9.5	1,560
				Coconut	A	-	A		285
				Oilpalm	C	A	A	0.9	1,248
				Cocoa	C	A	A	0.6	202
				Rubber	B	A	A	0.6	89
				Sago	C	-	A		585
				Coffee	A	A	A	0.7	57
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>85</u>
				Clove	B	A	A	1.1	20
Tabacco	B	A	A	0.7	585				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,300</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>192</u>				
3	*	*	*	Maize	A	-	-		211
				Sorghum	A	-	A		244
				Ginger	B	A	-	2.5	975
				Groundnut	A	A	A	0.9	170
				Vegetable	A	A	-	13.8	1,151
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK026

Code Number : PK026 Name of Scheme : Bdg. Jeliang
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 47 Off : 37
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	705
				Groundnut	A	A	A	0.9	123
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>832</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	320
				Guava	C	A	-	3.1	1,128
				Banana	C	A	A	0.7	494
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>83</u>
				Papaya	B	A	A	0.6	1,175
				Citrus	B	A	A	2.9	494
				Pineapple	A	A	-	9.5	1,128
				Coconut	A	-	A		206
				Oilpalm	C	A	A	0.9	902
				Cocoa	C	A	A	0.6	146
				Rubber	B	A	A	0.6	65
				Sago	C	-	A		423
				Coffee	A	A	A	0.7	42
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>61</u>
				Clove	B	A	A	1.1	14
Tabacco	B	A	A	0.7	423				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>940</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>138</u>				
3	*	*	*	Maize	A	-	-		152
				Sorghum	A	-	A		177
				Ginger	B	A	-	2.5	705
				Groundnut	A	A	A	0.9	123
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>832</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK027

Code Number : PK027 Name of Scheme : Ujib
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 45 Off : 45
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	675
				Groundnut	A	A	A	0.9	117
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>797</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	306
				Guava	C	A	-	3.1	1,080
				Banana	C	A	A	0.7	473
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>79</u>
				Papaya	B	A	A	0.6	1,125
				Citrus	B	A	A	2.9	473
				Pineapple	A	A	-	9.5	1,080
				Coconut	A	-	A		197
				Oilpalm	C	A	A	0.9	864
				Cocoa	C	A	A	0.6	140
				Rubber	B	A	A	0.6	62
				Sago	C	-	A		405
				Coffee	A	A	A	0.7	40
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>52</u>
Clove	B	A	A	1.1	14				
Tabacco	B	A	A	0.7	405				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>200</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>133</u>				
3	*	*	*	Maize	A	-	-		146
				Sorghum	A	-	A		169
				Ginger	B	A	-	2.5	675
				Groundnut	A	A	A	0.9	117
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>797</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

- * : Potential categories
- A : Suitable
- B : Marginal suitable due to lack of drainage facilities
- C : Marginal suitable due to limited factors other than drainage conditions
- : Not suitable

Crop Diversification Potential for PK028

Code Number : PK028 Name of Scheme : Padang Rengas
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 250 Off : 115
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	3,750
				Groundnut	A	A	A	0.9	653
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>4,425</u>
2	*	*	*	Durian/Mango	C	A	-	11.0	1,700
				Guava	C	A	-	3.1	6,000
				Banana	C	A	-	0.7	2,625
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>440</u>
				Papaya	B	A	-	0.6	6,250
				Citrus	B	A	-	2.9	2,625
				Pineapple	A	A	-	9.5	6,000
				Coconut	A	-	A	-	1,095
				Oilpalm	C	A	A	0.9	4,800
				Cocoa	C	A	A	0.6	775
				Rubber	B	A	A	0.6	343
				Sago	C	-	A	-	2,250
				Coffee	A	A	A	0.7	220
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>325</u>
Clove	B	A	A	1.1	78				
Tabacco	B	A	A	0.7	2,250				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>5,000</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>738</u>				
3	*	*	*	Maize	A	-	-	-	813
				Sorghum	A	-	A	-	938
				Ginger	B	A	-	2.5	3,750
				Groundnut	A	A	A	0.9	653
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>4,425</u>
4	*	*	*	Fodder grasses	A	-	A	-	-
				Pasture	A	-	A	-	-
5									
6									
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK029

Code Number : PK029 Name of Scheme : Bdg. Senggang
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 42 Off : 42
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	630
				Groundnut	A	A	A	0.9	110
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>743</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	286
				Guava	C	A	-	3.1	1,008
				Banana	C	A	A	0.7	441
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>74</u>
				Papaya	B	A	A	0.6	1,050
				Citrus	B	A	A	2.9	441
				Pineapple	A	A	-	9.5	1,008
				Coconut	A	-	A		184
				Oilpalm	C	A	A	0.9	806
				Cocoa	C	A	A	0.6	130
				Rubber	B	A	A	0.6	58
				Sago	C	-	A		378
				Coffee	A	A	A	0.7	37
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>55</u>
				Clove	B	A	A	1.1	13
Tabacco	B	A	A	0.7	378				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>840</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>124</u>				
3	*	*	*	Maize	A	-	-		137
				Sorghum	A	-	A		158
				Ginger	B	A	-	2.5	630
				Groundnut	A	A	A	0.9	110
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>743</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5									
6									
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK030

Code Number : PK030 Name of Scheme : Seterus
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 75 Off : 75
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,125
				Groundnut	A	A	A	0.9	196
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,328</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	510
				Guava	C	A	-	3.1	1,800
				Banana	C	A	A	0.7	788
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>132</u>
				Papaya	B	A	-	0.6	1,875
				Citrus	B	A	-	2.9	788
				Pineapple	A	A	-	9.5	1,800
				Coconut	A	-	A	-	329
				Oilpalm	C	A	A	0.9	1,440
				Cocoa	C	A	A	0.6	233
				Rubber	B	A	A	0.6	103
				Sago	C	-	A	-	675
				Coffee	A	A	A	0.7	66
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>98</u>
				Clove	B	A	A	1.1	23
Tabacco	B	A	A	0.7	675				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,500</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>221</u>				
3	*	*	*	Maize	A	-	-	-	244
				Sorghum	A	-	A	-	281
				Ginger	B	A	-	2.5	1,125
				Groundnut	A	A	A	0.9	196
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,328</u>
4	*	*	*	Fodder grasses	A	-	A	-	-
				Pasture	A	-	A	-	-
5									
6									
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK031

Code Number : PK031 Name of Scheme : Bdg. Ketiou
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 49 Off : 20
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	735
				Groundnut	A	A	A	0.9	128
				<u>Vegetable</u>	A	A	A	13.8	867
2	*	*	*	Durian/Mango	C	A	A	11.0	333
				Guava	C	A	-	3.1	1,176
				Banana	C	A	A	0.7	515
				<u>Cashewnut</u>	A	A	A	8.7	86
				Papaya	B	A	A	0.6	1,225
				Citrus	B	A	A	2.9	515
				Pineapple	A	A	-	9.5	1,176
				Coconut	A	-	A		215
				Oilpalm	C	A	A	0.9	941
				Cocoa	C	A	A	0.6	152
				Rubber	B	A	A	0.6	67
				Sago	C	-	A		441
				Coffee	A	A	A	0.7	43
				<u>Tea</u>	A	A	A	10.4	64
				Clove	B	A	A	1.1	15
Tabacco	B	A	A	0.7	441				
<u>Sugarcane</u>	A	A	A	3.3	980				
<u>Pepper</u>	A	A	A	16.4	145				
3	*	*	*	Maize	A	-	-		159
				Sorghum	A	-	A		184
				Ginger	B	A	-	2.5	735
				Groundnut	A	A	A	0.9	128
				<u>Vegetable</u>	A	A	A	13.8	867
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK032

Code Number : PK032 Name of Scheme : Beluru
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 180 Off : 180
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,186</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	1,224
				Guava	C	A	-	3.1	4,320
				Banana	C	A	-	0.7	1,890
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>317</u>
				Papaya	B	A	-	0.6	4,500
				Citrus	B	A	-	2.9	1,890
				Pineapple	A	A	-	9.5	4,320
				Coconut	A	-	A		788
				Oilpalm	C	A	A	0.9	3,456
				Cocoa	C	A	A	0.6	558
				Rubber	B	A	A	0.6	247
				Sago	C	-	A		1,620
				Coffee	A	A	A	0.7	158
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>234</u>
Clove	B	A	A	1.1	56				
Tabacco	B	A	A	0.7	1,620				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,600</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>531</u>				
3	*	*	*	Maize	A	-	-		585
				Sorghum	A	-	A		675
				Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,186</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK033

Code Number : PK033 Name of Scheme : Bendang Lempar
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 100 Off : 100
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,500
				Groundnut	A	A	A	0.9	261
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,770</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	680
				Guava	C	A	-	3.1	2,400
				Banana	C	A	A	0.7	1,050
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>176</u>
				Papaya	B	A	-	0.6	2,500
				Citrus	B	A	-	2.9	1,050
				Pineapple	A	A	-	9.5	2,400
				Coconut	A	-	A		438
				Oilpalm	C	A	A	0.9	1,920
				Cocoa	C	A	A	0.6	310
				Rubber	B	A	A	0.6	137
				Sago	C	-	A		900
				Coffee	A	A	A	0.7	88
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>130</u>
Clove	B	A	A	1.1	31				
Tabacco	B	A	A	0.7	900				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>2,000</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>295</u>				
3	*	*	*	Maize	A	-	-		325
				Sorghum	A	-	A		375
				Ginger	B	A	-	2.5	1,500
				Groundnut	A	A	A	0.9	261
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,770</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

* : Potential categories

A : Suitable

B : Marginal suitable due to lack of drainage facilities

C : Marginal suitable due to limited factors other than drainage conditions

- : Not suitable

Crop Diversification Potential for PK034

Code Number : PK034 Name of Scheme : Trosor
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 14 Off : 14
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	A	2.5	210
				Groundnut	A	A	A	0.9	37
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>248</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	95
				Guava	C	A	A	3.1	336
				Banana	C	A	A	0.7	147
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>25</u>
				Papaya	B	A	A	0.6	350
				Citrus	B	A	A	2.9	147
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>336</u>
				Coconut	A	-	A		61
				Oilpalm	C	A	A	0.9	269
				Cocoa	C	A	A	0.6	43
				Rubber	B	A	A	0.6	19
				Sago	C	-	A		126
				Coffee	A	A	A	0.7	12
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>18</u>
				Clove	B	A	A	1.1	4
Tabacco	B	A	A	0.7	126				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>280</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>41</u>				
3	*	*	*	Maize	A	-	-		46
				Sorghum	A	-	A		53
				Ginger	B	A	A	2.5	210
				Groundnut	A	A	A	0.9	37
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>248</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK035

Code Number : PK035 Name of Scheme : Kg. Ngor
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 31 Off : 31
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	465
				Groundnut	A	A	A	0.9	81
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>542</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	211
				Guava	C	A	-	3.1	744
				Banana	C	A	A	0.7	326
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>55</u>
				Papaya	B	A	A	0.6	775
				Citrus	B	A	A	2.9	326
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>744</u>
				Coconut	A	-	A		136
				Oilpalm	C	A	A	0.9	595
				Cocoa	C	A	A	0.6	96
				Rubber	B	A	A	0.6	42
				Sago	C	-	A		279
				Coffee	A	A	A	0.7	27
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>40</u>
Clove	B	A	A	1.1	10				
Tabacco	B	A	A	0.7	279				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>620</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>91</u>				
3	*	*	*	Maize	A	-	-		101
				Sorghum	A	-	A		116
				Ginger	B	A	-	2.5	465
				Groundnut	A	A	A	0.9	81
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>542</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK036

Code Number : PK036 Name of Scheme : Berala
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 42 Off : 42
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	630
				Groundnut	A	A	A	0.9	110
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>743</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	286
				Guava	C	A	-	3.1	1,008
				Banana	C	A	A	0.7	441
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>74</u>
				Papaya	B	A	A	0.6	1,050
				Citrus	B	A	A	2.9	441
				Pineapple	A	A	-	9.5	1,008
				Coconut	A	-	A		184
				Oilpalm	C	A	A	0.9	806
				Cocoa	C	A	A	0.6	130
				Rubber	B	A	A	0.6	58
				Sago	C	-	A		378
				Coffee	A	A	A	0.7	37
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>55</u>
				Clove	B	A	A	1.1	13
Tabacco	B	A	A	0.7	378				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>840</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>124</u>				
3	*	*	*	Maize	A	-	-		137
				Sorghum	A	-	A		158
				Ginger	B	A	-	2.5	630
				Groundnut	A	A	A	0.9	110
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>743</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

* : Potential categories

A : Suitable

B : Marginal suitable due to lack of drainage facilities

C : Marginal suitable due to limited factors other than drainage conditions

- : Not suitable

Crop Diversification Potential for PK037

Code Number : PK037 Name of Scheme : Kroh Hulu
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 15 Off : 15
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	A	2.5	225
				Groundnut	A	A	A	0.9	39
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>266</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	102
				Guava	C	A	A	3.1	360
				Banana	C	A	A	0.7	158
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>26</u>
				Papaya	B	A	A	0.6	375
				Citrus	B	A	A	2.9	158
				<u>Pineapple</u>	A	A	A	<u>2.5</u>	<u>360</u>
				Coconut	A	-	A		66
				Oilpalm	C	A	A	0.9	288
				Cocoa	C	A	A	0.6	47
				Rubber	B	A	A	0.6	21
				Sago	C	-	A		135
				Coffee	A	A	A	0.7	13
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>20</u>
				Clove	B	A	A	1.1	5
Tabacco	B	A	A	0.7	135				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>300</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>44</u>				
3	*	*	*	Maize	A	-	-		49
				Sorghum	A	-	A		56
				Ginger	B	A	A	2.5	225
				Groundnut	A	A	A	0.9	39
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>266</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE: Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

- * : Potential categories
- A : Suitable
- B : Marginal suitable due to lack of drainage facilities
- C : Marginal suitable due to limited factors other than drainage conditions
- : Not suitable

Crop Diversification Potential for PK038

Code Number : PK038 Name of Scheme : Bendang Talang
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 70 Off : 70
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,050
				Groundnut	A	A	A	0.9	183
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,239</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	476
				Guava	C	A	-	3.1	1,680
				Banana	C	A	A	0.7	735
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>123</u>
				Papaya	B	A	-	0.6	1,750
				Citrus	B	A	-	2.9	735
				Pineapple	A	A	-	9.5	1,680
				Coconut	A	-	A		307
				Oilpalm	C	A	A	0.9	1,344
				Cocoa	C	A	A	0.6	217
				Rubber	B	A	A	0.6	96
				Sago	C	-	A		630
				Coffee	A	A	A	0.7	62
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>91</u>
Clove	B	A	A	1.1	22				
Tabacco	B	A	A	0.7	630				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,400</u>				
Pepper	A	A	A	16.4	207				
3	*	*	*	Maize	A	-	-		228
				Sorghum	A	-	A		263
				Ginger	B	A	-	2.5	1,050
				Groundnut	A	A	A	0.9	183
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,239</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK039

Code Number : PK039 Name of Scheme : Bendang Ulu Kenas
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 27 Off : 27
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		405
				Groundnut	C	A	A		70
				Vegetable	C	A	A		478
2	*	*	*	Durian/Mango	C	A	A	11.0	184
				Guava	C	A	-	3.1	648
				Banana	C	A	A	0.7	284
				Cashewnut	C	A	A		48
				Papaya	C	A	A		675
				Citrus	C	A	A		284
				Pineapple	C	A	A	0.5	648
				Coconut	A	-	A		118
				Oilpalm	C	A	A	0.9	518
				Cocoa	C	A	A	0.6	84
				<u>Rubber</u>	A	A	A	1.1	<u>37</u>
				Coffee	C	A	A		24
				Tea	C	A	A		35
				Clove	C	A	A		8
Tabacco	C	A	A		243				
Sugarcane	C	A	A		540				
Pepper	C	A	A		80				
3	*	*	*	Maize	C	-	-		88
				Sorghum	C	-	A		101
				Ginger	C	A	-		405
				Groundnut	C	A	A		70
				Vegetable	C	A	A		478
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK040

Code Number : PK040 Name of Scheme : Kota Lama Kiri
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 112 Off : 112
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,680
				Groundnut	A	A	A	0.9	292
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,982</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	762
				Guava	C	A	-	3.1	2,688
				Banana	C	A	A	0.7	1,176
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>197</u>
				Papaya	B	A	-	0.6	2,800
				Citrus	B	A	-	2.9	1,176
				Pineapple	A	A	-	9.5	2,688
				Coconut	A	-	A		491
				Oilpalm	C	A	A	0.9	2,150
				Cocoa	C	A	A	0.6	347
				Rubber	B	A	A	0.6	153
				Sago	C	-	A		1,008
				Coffee	A	A	A	0.7	99
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>146</u>
Clove	B	A	A	1.1	35				
Tabacco	B	A	A	0.7	1,008				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>2,240</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>330</u>				
3	*	*	*	Maize	A	-	-		364
				Sorghum	A	-	A		420
				Ginger	B	A	-	2.5	1,680
				Groundnut	A	A	A	0.9	292
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,982</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK041

Code Number : PK041 Name of Scheme : Salong
 State : Perak District : Kuala Kangsar
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 180 Off : 180
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,186</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	1,224
				Guava	C	A	-	3.1	4,320
				Banana	C	A	-	0.7	1,890
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>317</u>
				Papaya	B	A	-	0.6	4,500
				Citrus	B	A	-	2.9	1,890
				Pineapple	A	A	-	9.5	4,320
				Coconut	A	-	A		788
				Oilpalm	C	A	A	0.9	3,456
				Cocoa	C	A	A	0.6	558
				Rubber	B	A	A	0.6	247
				Sago	C	-	A		1,620
				Coffee	A	A	A	0.7	158
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>234</u>
Clove	B	A	A	1.1	56				
Tabacco	B	A	A	0.7	1,620				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,600</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>531</u>				
3	*	*	*	Maize	A	-	-		585
				Sorghum	A	-	A		675
				Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>3,186</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK042

Code Number : PK042 Name of Scheme : Chepias
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2DT

Irrigable area (ha) Main : 90 Off : 90
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		1,350
				Groundnut	C	A	A		235
				Vegetable	C	A	A		1,593
2	*	*	*	Durian/Mango	C	A	A	11.0	612
				Guava	C	A	-	3.1	2,160
				Banana	C	A	A	0.7	945
				Cashewnut	C	A	A		158
				Papaya	C	A	-		2,250
				Citrus	C	A	-		945
				Pineapple	C	A	-	0.5	2,160
				Coconut	A	-	A		394
				Oilpalm	C	A	A	0.9	1,728
				Cocoa	C	A	A	0.6	279
				<u>Rubber</u>	A	A	A	1.1	123
				Coffee	C	A	A		79
				Tea	C	A	A		117
				Clove	C	A	A		28
Tabacco	C	A	A		810				
Sugercane	C	A	A		1,800				
Pepper	C	A	A		266				
3	*	*	*	Maize	C	-	-		293
				Sorghum	C	-	A		338
				Ginger	C	A	-		1,350
				Groundnut	C	A	A		235
				Vegetable	C	A	A		1,593
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK043

Code Number : PK043 Name of Scheme : Jalong
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 10 Off : 0
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	A	2.5	150
				Groundnut	A	A	A	0.9	26
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>177</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	68
				Guava	C	A	A	3.1	240
				Banana	C	A	A	0.7	105
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>18</u>
				Papaya	B	A	A	0.6	250
				Citrus	B	A	A	2.9	105
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>240</u>
				Coconut	A	-	A		44
				Oilpalm	C	A	A	0.9	192
				Cocoa	C	A	A	0.6	31
				Rubber	B	A	A	0.6	14
				Sago	C	-	A		90
				Coffee	A	A	A	0.7	9
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>13</u>
Clove	B	A	A	1.1	3				
Tabacco	B	A	A	0.7	90				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>200</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>30</u>				
3	*	*	*	Maize	A	-	-		33
				Sorghum	A	-	A		38
				Ginger	B	A	A	2.5	150
				Groundnut	A	A	A	0.9	26
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>177</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

* : Potential categories

A : Suitable

B : Marginal suitable due to lack of drainage facilities

C : Marginal suitable due to limited factors other than drainage conditions

- : Not suitable

Crop Diversification Potential for PK044

Code Number : PK044 Name of Scheme : Bendang Kuala Dal
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 20 Off : 20
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	A	2.5	300
				Groundnut	A	A	A	0.9	52
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>354</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	136
				Guava	C	A	A	3.1	480
				Banana	C	A	A	0.7	210
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>35</u>
				Papaya	B	A	A	0.6	500
				Citrus	B	A	A	2.9	210
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>480</u>
				Coconut	A	-	A		88
				Oilpalm	C	A	A	0.9	384
				Cocoa	C	A	A	0.6	62
				Rubber	B	A	A	0.6	27
				Sago	C	-	A		180
				Coffee	A	A	A	0.7	18
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>26</u>
				Clove	B	A	A	1.1	6
Tabacco	B	A	A	0.7	180				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>400</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>59</u>				
3	*	*	*	Maize	A	-	-		65
				Sorghum	A	-	A		75
				Ginger	B	A	A	2.5	300
				Groundnut	A	A	A	0.9	52
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>354</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK045

Code Number : PK045 Name of Scheme : Sauk
 State : Perak District : Kuala Kangsar
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 40 Off : 40
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	600
				Groundnut	A	A	A	0.9	104
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>708</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	272
				Guava	C	A	-	3.1	960
				Banana	C	A	A	0.7	420
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>70</u>
				Papaya	B	A	A	0.6	1,000
				Citrus	B	A	A	2.9	420
				Pineapple	A	A	-	9.5	960
				Coconut	A	-	A		175
				Oilpalm	C	A	A	0.9	768
				Cocoa	C	A	A	0.6	124
				Rubber	B	A	A	0.6	55
				Sago	C	-	A		360
				Coffee	A	A	A	0.7	35
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>52</u>
				Clove	B	A	A	1.1	12
Tabacco	B	A	A	0.7	360				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>800</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>118</u>				
3	*	*	*	Maize	A	-	-		130
				Sorghum	A	-	A		150
				Ginger	B	A	-	2.5	600
				Groundnut	A	A	A	0.9	104
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>708</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK046

Code Number : PK046 Name of Scheme : Lenggong
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 150 Off : 150
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	2,250
				Groundnut	A	A	A	0.9	392
				Vegetable	A	A	-	13.8	2,655
2	*	*	*	Durian/Mango	C	A	-	11.0	1,020
				Guava	C	A	-	3.1	3,600
				Banana	C	A	-	0.7	1,575
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>264</u>
				Papaya	B	A	-	0.6	3,750
				Citrus	B	A	-	2.9	1,575
				Pineapple	A	A	-	9.5	3,600
				Coconut	A	-	A	-	657
				Oilpalm	C	A	A	0.9	2,880
				Cocoa	C	A	A	0.6	465
				Rubber	B	A	A	0.6	206
				Sago	C	-	A	-	1,350
				Coffee	A	A	A	0.7	132
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>195</u>
				Clove	B	A	A	1.1	47
Tabacco	B	A	A	0.7	1,350				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,000</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>443</u>				
3	*	*	*	Maize	A	-	-	-	488
				Sorghum	A	-	A	-	563
				Ginger	B	A	-	2.5	2,250
				Groundnut	A	A	A	0.9	392
				Vegetable	A	A	-	13.8	2,655
4	*	*	*	Fodder grasses	A	-	A	-	-
				Pasture	A	-	A	-	-
5									
6									
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK047

Code Number : PK047 Name of Scheme : Sumpitan
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 180 Off : 180
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				Vegetable	A	A	-	13.8	3,186
2	*	*	*	Durian/Mango	C	A	-	11.0	1,224
				Guava	C	A	-	3.1	4,320
				Banana	C	A	-	0.7	1,890
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>317</u>
				Papaya	B	A	-	0.6	4,500
				Citrus	B	A	-	2.9	1,890
				Pineapple	A	A	-	9.5	4,320
				Coconut	A	-	A		788
				Oilpalm	C	A	A	0.9	3,456
				Cocoa	C	A	A	0.6	558
				Rubber	B	A	A	0.6	247
				Sago	C	-	A		1,620
				Coffee	A	A	A	0.7	158
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>234</u>
				Clove	B	A	A	1.1	56
Tabacco	B	A	A	0.7	1,620				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>3,600</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>531</u>				
3	*	*	*	Maize	A	-	-		585
				Sorghum	A	-	A		675
				Ginger	B	A	-	2.5	2,700
				Groundnut	A	A	A	0.9	470
				Vegetable	A	A	-	13.8	3,186
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK048

Code Number : PK048 Name of Scheme : Bendang Kg. Padang Gerik
 State : Perak District : Hulu Perak
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 28 Off : 28
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	420
				Groundnut	A	A	A	0.9	73
				Vegetable	A	A	-	13.8	496
2	*	*	*	Durian/Mango	C	A	-	11.0	190
				Guava	C	A	-	3.1	672
				Banana	C	A	-	0.7	294
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>42</u>
				Papaya	B	A	-	0.6	700
				Citrus	B	A	-	2.9	294
				Pineapple	A	A	-	9.5	672
				Coconut	A	-	A		123
				Oilpalm	C	A	A	0.9	538
				Cocoa	C	A	A	0.6	87
				Rubber	B	A	A	0.6	38
				Sago	C	-	A		252
				Coffee	A	A	A	0.7	25
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>36</u>
				Clove	B	A	A	1.1	9
Tabacco	B	A	A	0.7	252				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>560</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>83</u>				
3	*	*	*	Maize	A	-	-		91
				Sorghum	A	-	A		105
				Ginger	B	A	-	2.5	420
				Groundnut	A	A	A	0.9	73
				Vegetable	A	A	-	13.8	496
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK049

Code Number : PK049 Name of Scheme : Gelok
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 80 Off : 80
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	1,200
				Groundnut	A	A	A	0.9	209
				Vegetable	A	A	-	13.8	1,416
2	*	*	*	Durian/Mango	C	A	-	11.0	544
				Guava	C	A	-	3.1	1,920
				Banana	C	A	-	0.7	840
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>141</u>
				Papaya	B	A	-	0.6	2,000
				Citrus	B	A	-	2.9	840
				Pineapple	A	A	-	9.5	1,920
				Coconut	A	-	A		350
				Oilpalm	C	A	A	0.9	1,536
				Cocoa	C	A	A	0.6	248
				Rubber	B	A	A	0.6	110
				Sago	C	-	A		720
				Coffee	A	A	A	0.7	70
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>104</u>
Clove	B	A	A	1.1	25				
Tabacco	B	A	A	0.7	720				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,600</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>236</u>				
3	*	*	*	Maize	A	-	-		260
				Sorghum	A	-	A		300
				Ginger	B	A	-	2.5	1,200
				Groundnut	A	A	A	0.9	209
				Vegetable	A	A	-	13.8	1,416
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5									
6									
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK050

Code Number : PK050 Name of Scheme : Bendang Kg. Kerunai
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 38 Off : 0
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	570
				Groundnut	A	A	A	0.9	99
				Vegetable	A	A	-	13.8	673
2	*	*	*	Durian/Mango	C	A	-	11.0	258
				Guava	C	A	-	3.1	912
				Banana	C	A	-	0.7	399
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>67</u>
				Papaya	B	A	-	0.6	950
				Citrus	B	A	-	2.9	399
				Pineapple	A	A	-	9.5	912
				Coconut	A	-	A		166
				Oilpalm	C	A	A	0.9	730
				Cocoa	C	A	A	0.6	118
				Rubber	B	A	A	0.6	52
				Sago	C	-	A		342
				Coffee	A	A	A	0.7	33
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>49</u>
				Clove	B	A	A	1.1	12
Tabacco	B	A	A	0.7	342				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>760</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>112</u>				
3	*	*	*	Maize	A	-	-		124
				Sorghum	A	-	A		143
				Ginger	B	A	-	2.5	570
				Groundnut	A	A	A	0.9	99
				Vegetable	A	A	-	13.8	673
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	2.0	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK051

Code Number : PK051 Name of Scheme : Bendang Pdg. Setang Grik
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 45 Off : 45
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	675
				Groundnut	A	A	A	0.9	117
				Vegetable	A	A	-	13.8	797
2	*	*	*	Durian/Mango	C	A	-	11.0	306
				Guava	C	A	-	3.1	1,080
				Banana	C	A	-	0.7	473
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	79
				Papaya	B	A	-	0.6	1,125
				Citrus	B	A	-	2.9	473
				Pineapple	A	A	-	9.5	1,080
				Coconut	A	-	A		197
				Oilpalm	C	A	A	0.9	864
				Cocoa	C	A	A	0.6	140
				Rubber	B	A	A	0.6	62
				Sago	C	-	A		405
				Coffee	A	A	A	0.7	40
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>59</u>
Clove	B	A	A	1.1	14				
Tabacco	B	A	A	0.7	405				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>900</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>133</u>				
3	*	*	*	Maize	A	-	-		146
				Sorghum	A	-	A		169
				Ginger	B	A	-	2.5	675
				Groundnut	A	A	A	0.9	117
				Vegetable	A	A	-	13.8	797
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE: Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK052

Code Number : PK052 Name of Scheme : Bendang Kg. Padang Kunyit Gerik
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 40 Off : 40
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	600
				Groundnut	A	A	A	0.9	104
				Vegetable	A	A	-	13.8	708
2	*	*	*	Durian/Mango	C	A	-	11.0	272
				Guava	C	A	-	3.1	960
				Banana	C	A	-	0.7	420
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>70</u>
				Papaya	B	A	-	0.6	1,000
				Citrus	B	A	-	2.9	420
				Pineapple	A	A	-	9.5	960
				Coconut	A	-	A		175
				Oilpalm	C	A	A	0.9	768
				Cocoa	C	A	A	0.6	124
				Rubber	B	A	A	0.6	55
				Sago	C	-	A		360
				Coffee	A	A	A	0.7	35
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>52</u>
				Clove	B	A	A	1.1	12
Tabacco	B	A	A	0.7	360				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>800</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>118</u>				
3	*	*	*	Maize	A	-	-		130
				Sorghum	A	-	A		150
				Ginger	B	A	-	2.5	600
				Groundnut	A	A	A	0.9	104
				Vegetable	A	A	-	13.8	708
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK053

Code Number : PK053 Name of Scheme : Bendang Kg.Ulu Kenderong Gerik
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2DT

Irrigable area (ha) Main : 45 Off : 35
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		675
				Groundnut	C	A	A		117
				Vegetable	C	A	-		797
2	*	*	*	Durian/Mango	C	A	-	11.0	306
				Guava	C	A	-	3.1	1,080
				Banana	C	A	-	0.7	473
				Cashewnut	C	A	A		79
				Papaya	C	A	-		1,125
				Citrus	C	A	-		473
				Pineapple	C	A	-	0.5	1,080
				Coconut	A	-	A		197
				Oilpalm	C	A	A	0.9	864
				Cocoa	C	A	A	0.6	140
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>62</u>
				Coffee	C	A	A		40
				Tea	C	A	A		59
				Clove	C	A	A		14
Tabacco	C	A	A		405				
Sugercane	C	A	A		900				
Pepper	C	A	A		133				
3	*	*	*	Maize	C	-	-		146
				Sorghum	C	-	A		169
				Ginger	C	A	-		675
				Groundnut	C	A	A		117
				Vegetable	C	A	-		797
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*						
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK054

Code Number : PK054 Name of Scheme : Bendang Kg. Bonggor Gerik
 State : Perak District : Hulu Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 25 Off : 14
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	-	2.5	375
				Groundnut	A	A	A	0.9	65
				Vegetable	A	A	-	13.8	443
2	*	*	*	Durian/Mango	C	A	-	11.0	170
				Guava	C	A	-	3.1	600
				Banana	C	A	-	0.7	263
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>44</u>
				Papaya	B	A	-	0.6	625
				Citrus	B	A	-	2.9	263
				Pineapple	A	A	-	9.5	600
				Coconut	A	-	A		110
				Oilpalm	C	A	A	0.9	480
				Cocoa	C	A	A	0.6	78
				Rubber	B	A	A	0.6	34
				Sago	C	-	A		225
				Coffee	A	A	A	0.7	22
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>33</u>
				Clove	B	A	A	1.1	8
Tabacco	B	A	A	0.7	225				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>500</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>74</u>				
3	*	*	*	Maize	A	-	-		81
				Sorghum	A	-	A		94
				Ginger	B	A	-	2.5	375
				Groundnut	A	A	A	0.9	65
				Vegetable	A	A	-	13.8	443
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5	*	*	*			A	A	<u>2.0</u>	
6	*	*	*		A	A	A		
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK055

Code Number : PK055 Name of Scheme : Seberang Perak Peringkat 1 & Tam.
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2DT

Irrigable area (ha) Main : 2309 Off : 2309
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		34,635
				Groundnut	C	A	A		6,026
				Vegetable	C	A	-		40,869
2	*	*	*	Durian/Mango	C	A	-	11.0	15,701
				Guava	C	A	-	3.1	55,416
				Banana	C	A	-	0.7	24,245
				Cashewnut	C	A	A		4,064
				Papaya	C	A	-		57,725
				Citrus	C	A	-		24,245
				Pineapple	C	A	-	0.5	55,416
				Coconut	A	-	A		10,113
				Oilpalm	C	A	A	0.9	44,333
				Cocoa	C	A	A	0.6	7,158
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>3,163</u>
				Coffee	C	A	A		2,032
				Tea	C	A	A		3,002
Clove	C	A	A		716				
Tabacco	C	A	A		20,781				
Sugercane	C	A	A		46,180				
Pepper	C	A	A		6,812				
3	*	*	*	Maize	C	-	-		7,504
				Sorghum	C	-	A		8,659
				Ginger	C	A	-		34,635
				Groundnut	C	A	A		6,026
				Vegetable	C	A	-		40,869
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK056

Code Number : PK056 Name of Scheme : Bota/Lambor
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2DT

Irrigable area (ha) Main : 754 Off : 754
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		11,310
				Groundnut	C	A	A		1,968
				Vegetable	C	A	-		13,346
2	*	*	*	Durian/Mango	C	A	-	11.0	5,127
				Guava	C	A	-	3.1	18,096
				Banana	C	A	-	0.7	7,917
				Cashewnut	C	A	A		1,327
				Papaya	C	A	-		18,850
				Citrus	C	A	-		7,917
				Pineapple	C	A	-	0.5	18,096
				Coconut	A	-	A		3,303
				Oilpalm	C	A	A	0.9	14,477
				Cocoa	C	A	A	0.6	2,337
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>1,033</u>
				Coffee	C	A	A		664
				Tea	C	A	A		980
				Clove	C	A	A		234
Tabacco	C	A	A		6,786				
Sugercane	C	A	A		15,080				
Pepper	C	A	A		2,224				
3	*	*	*	Maize	C	-	-		2,451
				Sorghum	C	-	A		2,828
				Ginger	C	A	-		11,310
				Groundnut	C	A	A		1,968
				Vegetable	C	A	-		13,346
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).

- * : Potential categories
- A : Suitable
- B : Marginal suitable due to lack of drainage facilities
- C : Marginal suitable due to limited factors other than drainage conditions
- : Not suitable

Crop Diversification Potential for PK057

Code Number : PK057 Name of Scheme : Senin
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 137 Off : 137
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		2,055
				Groundnut	C	A	A		358
				Vegetable	C	A	-		2,425
2	*	*	*	Durian/Mango	C	A	A	11.0	932
				Guava	C	A	-	3.1	3,288
				Banana	C	A	-	0.7	1,439
				Cashewnut	C	A	A		241
				Papaya	C	A	-		3,425
				Citrus	C	A	-		1,439
				Pineapple	C	A	-	0.5	3,288
				Coconut	A	-	A		600
				Oilpalm	C	A	A	0.9	2,630
				Cocoa	C	A	A	0.6	425
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>188</u>
				Coffee	C	A	A		121
				Tea	C	A	A		178
				Clove	C	A	A		42
Tabacco	C	A	A		1,233				
Sugarcane	C	A	A		2,740				
Pepper	C	A	A		404				
3	*	*	*	Maize	C	-	-		445
				Sorghum	C	-	A		514
				Ginger	C	A	-		2,055
				Groundnut	C	A	A		358
				Vegetable	C	A	-		2,425
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK058

Code Number : PK058 Name of Scheme : Lambor kiri
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 168 Off : 168
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		2,520
				Groundnut	C	A	A		438
				Vegetable	C	A	-		2,974
2	*	*	*	Durian/Mango	C	A	-	11.0	1,142
				Guava	C	A	-	3.1	4,032
				Banana	C	A	-	0.7	1,764
				Cashewnut	C	A	A		296
				Papaya	C	A	-		4,200
				Citrus	C	A	-		1,764
				Pineapple	C	A	-	0.5	4,032
				Coconut	A	-	A		736
				Oilpalm	C	A	A	0.9	3,226
				Cocoa	C	A	A	0.6	521
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>230</u>
				Coffee	C	A	A		148
				Tea	C	A	A		218
				Clove	C	A	A		52
Tabacco	C	A	A		1,512				
Sugarcane	C	A	A		3,360				
Pepper	C	A	A		496				
3	*	*	*	Maize	C	-	-		546
				Sorghum	C	-	A		630
				Ginger	C	A	-		2,520
				Groundnut	C	A	A		438
				Vegetable	C	A	-		2,974
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK059

Code Number : PK059 Name of Scheme : Parit Bukit Cupak & Merua
 State : Perak District : Perak Tengah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 220 Off : 220
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Less than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		3,300
				Groundnut	C	A	A		574
				Vegetable	C	A	-		3,894
2	*	*	*	Durian/Mango	C	A	-	11.0	1,496
				Guava	C	A	-	3.1	5,280
				Banana	C	A	-	0.7	2,310
				Cashewnut	C	A	A		387
				Papaya	C	A	-		5,500
				Citrus	C	A	-		2,310
				Pineapple	C	A	-	0.5	5,280
				Coconut	A	-	A		964
				Oilpalm	C	A	A	0.9	4,224
				Cocoa	C	A	A	0.6	682
				<u>Rubber</u>	A	A	A	1.1	<u>301</u>
				Coffee	C	A	A		194
				Tea	C	A	A		286
				Clove	C	A	A		68
Tabacco	C	A	A		1,980				
Sugarcane	C	A	A		4,400				
Pepper	C	A	A		649				
3	*	*	*	Maize	C	-	-		715
				Sorghum	C	-	A		825
				Ginger	C	A	-		3,300
				Groundnut	C	A	A		574
				Vegetable	C	A	-		3,894
4	*	*	*	Fodder grasses	C	-	A		
				Pasture	C	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*						
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK060

Code Number : PK060 Name of Scheme : Changkat Jong Irr.Scheme
 State : Perak District : Hilir Perak
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 3d(t)

Irrigable area (ha) Main : 2038 Off : 2038
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : More than 50% of irrigable area

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Vegetable	B	A	-	6.9	36,073
2	*	*	*	Coconut	B	-	A		8,926
				Sago	A	-	A		18,342
3	*	*	*	Vegetable	B	A	-	6.9	36,073
4	*	*	*	Fodder grasses	A	-	A		
5	*	*	*			A	-	2.0	
6	*	*	*		A	A	A		
7	*	*	*		*	*	*		
8									

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable

Crop Diversification Potential for PK061

Code Number : PK061 Name of Scheme : Ulu Kuang
 State : Perak District : Kinta
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 82 Off : 0
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Idle

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	B	A	A	2.5	1,230
				Groundnut	A	A	A	0.9	214
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,451</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	558
				Guava	C	A	A	3.1	1,968
				Banana	C	A	A	0.7	861
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>144</u>
				Papaya	B	A	-	0.6	2,050
				Citrus	B	A	A	2.9	861
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>1,968</u>
				Coconut	A	-	A		359
				Oilpalm	C	A	A	0.9	1,574
				Cocoa	C	A	A	0.6	254
				Rubber	B	A	A	0.6	112
				Sago	C	-	A		738
				Coffee	A	A	A	0.7	72
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>107</u>
				Clove	B	A	A	1.1	25
Tabacco	B	A	A	0.7	738				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>1,640</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>242</u>				
3	*	*	*	Maize	A	-	-		267
				Sorghum	A	-	A		308
				Ginger	B	A	A	2.5	1,230
				Groundnut	A	A	A	0.9	214
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>1,451</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	A		
5									
6									
7									
8	*	*	*		*	*	*		

NOTE Underline : Crops with highest potential (Class A) in terms of crop suitability, profitability, marketability and invest performance (B/C > 1).
 * : Potential categories
 A : Suitable
 B : Marginal suitable due to lack of drainage facilities
 C : Marginal suitable due to limited factors other than drainage conditions
 - : Not suitable