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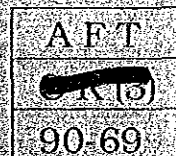
**FEASIBILITY STUDY
ON
RATIONALIZATION AND
CROP DIVERSIFICATION
IN
NON-GRANARY IRRIGATED AREAS
IN MALAYSIA**

Volume 5-6

State Report - N. Sembilan

October 1990

JAPAN INTERNATIONAL COOPERATION AGENCY



MALAYSIA

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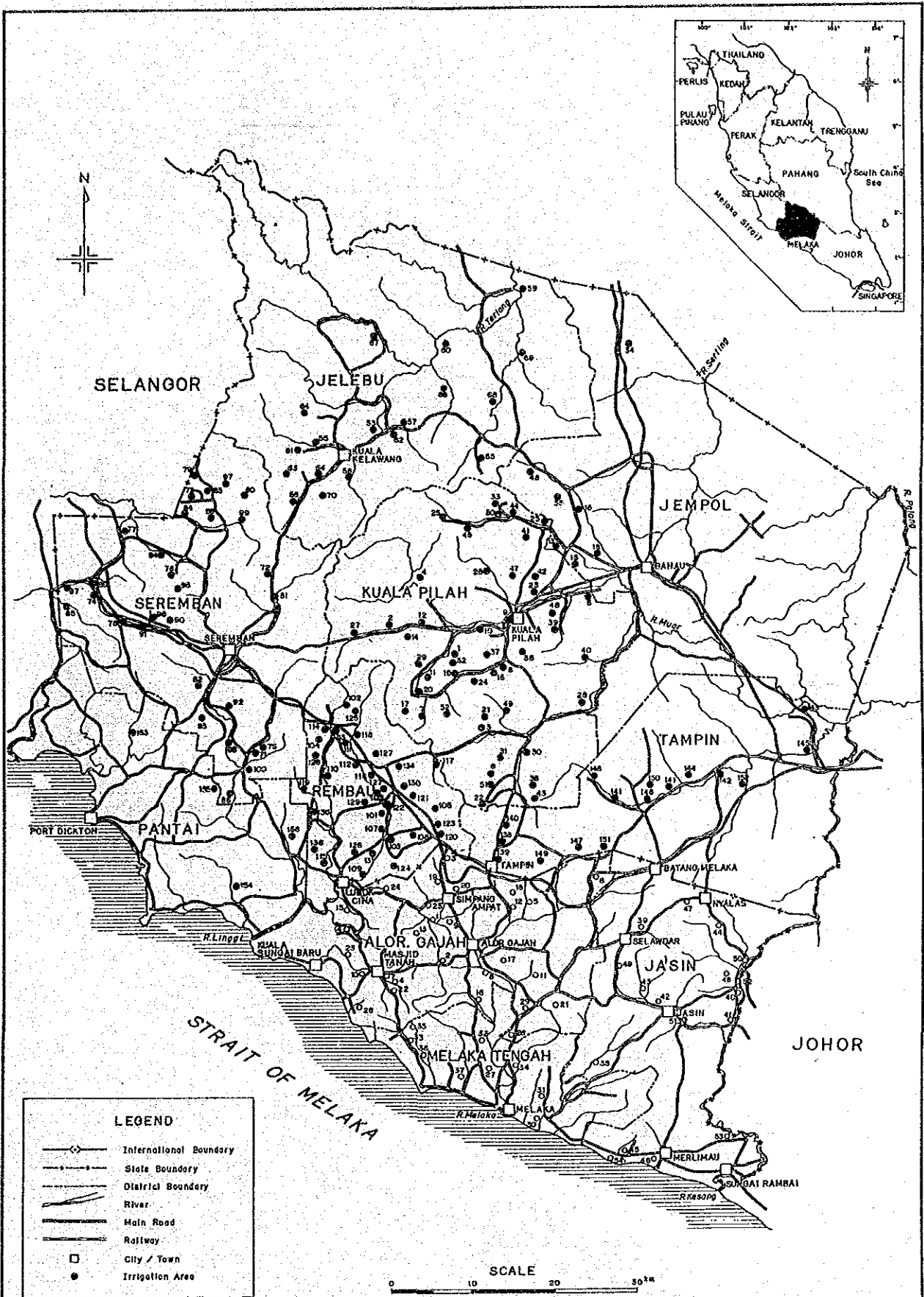
*Feasibility Study on Rationalization and Crop Diversification
in Non-granary Irrigated Areas in Malaysia*

LIST OF REPORTS

- | | |
|-------------|---|
| Volume 1 | Main Report |
| Volume 2 | Crop Diversification Evaluation
Methodology |
| Volume 3 | Crop Diversification Study
on Selected Schemes |
| Volume 4 | Manual for Information Management
System |
| Volume 5-1 | State Report - Perlis |
| Volume 5-2 | State Report - Kedah |
| Volume 5-3 | State Report - P. Pinang |
| Volume 5-4 | State Report - Perak |
| Volume 5-5 | State Report - Selangor |
| Volume 5-6 | State Report - N. Sembilan |
| Volume 5-7 | State Report - Melaka |
| Volume 5-8 | State Report - Johor |
| Volume 5-9 | State Report - Pahang |
| Volume 5-10 | State Report - Trengganu |
| Volume 5-11 | State Report - Kelantan |
| Volume 5-12 | State Report - Sabah |
| Volume 5-13 | State Report - Sarawak |

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**Location of Non-granary Irrigation Schemes
N. Sembilan**

**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*

Volume 5-6

State Report - N. Sembilan

CONTENTS

Location Map

	<u>Page</u>
1. INTRODUCTION	1-1
2. GENERAL CONDITIONS	2-1
2.1 Socio-economic Situation	2-1
2.2 Present Agriculture	2-2
2.3 Present Situation of Non-granary Irrigation Schemes .	2-3
3. EVALUATION OF CROP DIVERSIFICATION POTENTIAL FOR NON-GRANARY IRRIGATION SCHEMES	3-1
3.1 Basic Considerations for Evaluation	3-1
3.1.1 Differences between paddy and non-paddy crop	3-2
3.1.2 Paddy farmers' behavior	3-2
3.1.3 Determination of categories	3-3
3.2 Criteria for Evaluation	3-4
3.2.1 General	3-4
3.2.2 Water resources availability	3-4
3.2.3 Farmer's intention towards continuation of paddy cultivation and introduction of crop diversification	3-5
3.2.4 Land suitability for mechanized farming practices	3-6
3.2.5 Soil and agro-climate suitability and limitations for the cultivation of specific diversified crop	3-6

3.2.6	Crop profitability	3-9
3.2.7	Crop marketability	3-9
3.2.8	Investment performance with regard to crop diversification	3-10
3.3	Procedure of Evaluation	3-10
3.3.1	General procedure	3-10
3.3.2	Evaluation procedure for Category 1	3-11
3.3.3	Evaluation procedure for Category 2	3-13
3.3.4	Evaluation procedure for Category 3	3-14
3.3.5	Evaluation procedure for Category 4	3-15
3.3.6	Evaluation procedure for Category 5	3-16
3.3.7	Evaluation procedure for Category 6	3-17
3.3.8	Evaluation procedure for Category 7	3-17
3.3.9	Evaluation procedure for Category 8	3-18
4.	RESULTS OF EVALUATION	4-1

TABLES & FIGURES

Table 1	Priority Order of Selected Crops for Each Scheme
Table 2	Crop Diversification Potential for Each Scheme
Fig. 1	Criteria and Procedure of Evaluation for Crop Diversification Potential
Fig. 2	General Flow of Evaluation for Crop Diversification Potential

APPENDIX

RESULTS OF EVALUATION FOR CROP DIVERSIFICATION POTENTIAL

1. INTRODUCTION

This is the State Report - N. Sembilan, Volume 5-6, 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 N. Sembilan.

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

Negeri Sembilan is almost wholly an inland state with only 48 km of coastline. It is bounded on the north by Selangor, on the east by Pahang, and on the south by Melaka and Johor. The physical area is 6,643 km² in total divided into seven administrative districts. The population estimated was 627,600 persons in 1985 and 657,500 persons in 1988. The population density in 1988 was 99 person/km². Rural population ratio declined from 63% in 1985 to 60% in 1988. The proportion of population by ethnic group in 1987 was 48% for Bumiputera, 35% for Chinese, 17% for Indian and negligible small for others.

In Negeri Sembilan, GDP in 1988 amounted to M\$2,702 million at 1978 constant prices. The main contribution by industrial origin was 30% each from the agriculture and manufacturing sectors. Per capita GDP was M\$3,167 in 1986 and M\$3,465 in 1988, both being slightly below the national average of M\$3,551 in 1986 and M\$3,858 in 1988. The mean monthly income decreased from M\$1,039 in 1984 to M\$908 in 1987 according to the Household Income Surveys. It was below the average of Peninsular Malaysia, M\$1,095 in 1984 and M\$1,074 in 1987. There were 17,300 poor households or 13.0% of the total of 133,000 households in 1984 and 30,100 poor households or 21.5% of the total of 140,000 households in 1987.

As of 1985, the social infrastructure services covered 91.6% by electricity, 89.3 % by urban piped water supply and 75.0% by rural water supply. The road network was 2,440 km in the total length, 370 m/km² in density and 3,900 m per 1,000 population in per capita length. The number of registered motor vehicles was 305 per 1,000 population. The State kept 3.3 doctors and 2.9 acute care hospital beds per 1,000 population. Every 14,800 rural people were taken care of by one health center. The infant mortality rate was 1.3 per 1,000 population.

The revised allocation of development expenditure from the Federal Government and NFPEs under 5MP amounted to M\$920 million accounting for 2.9% of the total expenditure to the all States. The State Government has recently been encouraging local and foreign entrepreneurs to set up their establishment in the State. In this respect, the State Economic Development Corporation (SEDC) is entrusted with the task of preparing suitable industrial sites for the potential investors.

2.2 Present Agriculture

In Negeri Sembilan, the total area under crops is about 330,000 ha or 49% of the whole territory of the State. Some 12,300 ha are paddy field. A total of 296,800 ha is covered with tree crops. Productive planted areas of tree crops include oil palm of 77,660 ha, rubber of 65,030 ha, coconut of 1,120 ha and cocoa of 260 ha. The total area under miscellaneous crops is 8,808 ha in which durian planted area of 2,628 ha and rambutan growing area of 1,885 ha are included. The remaining areas are grown with 35 other miscellaneous crops. Main crop production in 1987 was paddy of 13,200 tons, oil palm of 918,000 tons as FFB, rubber of 251,100 tons and dry cocoa beans of 260 tons.

According to the projection made by FAMA, the total demand for food crops, vegetables, fruits and freshwater fishes is shown below.

Produce	Net Consumption (ton)	Outflow to Other States (ton)	Post-harvest Loss (ton)	Total Demand (ton)
Food crops	763	0	191	954
Vegetables	35,265	33	6,324	41,622
(Leafy)	(11,193)	(4)	(2,799)	(13,996)
(Fruit)	(11,752)	(29)	(2,945)	(14,726)
(Root)	(6,855)	(0)	(1,714)	(8,569)
(Other)	(5,465)	(0)	(1,366)	(6,831)
Fruits	15,779	406	4,046	20,231
Freshwater fishes	395	7	101	503

Little supply in the State is projected, namely food crops of 14 tons, vegetables of 972 tons, fruits of 2,245 tons and freshwater fishes of 79 tons. Thus, the market potential is projected as shown below.

Produce	Market Potential (ton)	Major Crops (ton)
Food crops	940	Sweet potato (679)
Vegetables	41,415	
(Leafy)	(13,556)	Cabbage (4,308), Chinese kale (3,750)
(Fruit)	(14,201)	Chilli (3,122), Yard long bean (2,414)
(Root)	(6,827)	Carrot (5,249)
(Other)	(6,831)	Garlic (3,859)
Fruits	17,986	Watermelon (5,107), Banana (4,267)
Freshwater fishes	424	Tilapia (105)

2.3 Present Situation of Non-granary Irrigation Schemes

In Negeri Sembilan, the total area under crops is about 330,000 ha or 49% of the whole territory of the State. Some 14,753 ha are paddy fields. A total of 296,800 ha is covered with tree crops. Productive planted areas of tree crops include oil palm of 77,660 ha, rubber of 65,030 ha, coconut of 1,120 ha and cocoa of 260 ha. The total area under miscellaneous crops is 8,808 ha in which durian of 2,628 ha and rambutan of 1,885 ha are included. The remaining areas are grown with 35 other miscellaneous crops. The total irrigable paddy fields are 10,934 ha and fully designated as non-granary irrigated areas.

- Number of schemes : 156
- Irrigable area : - main season = 10,934 ha
- off season = 5,285 ha
- Type of schemes : gravity; 142 pump; 5
gravity/pump; 1 converted; 6
no record; 2

- Irrigation water resources availability by scheme (except converted and no record schemes)
 - : - sufficient for double cropping; 99
 - insufficient for off season presaturation; 23
 - limited to only single cropping; 16
- Average cropping intensity (paddy + upland crops) for previous three years
 - : - main season = 31%
 - off season = 18%
- Average cropping intensity (paddy only) for previous three years
 - : - main season = 21%
 - off season = 8%
- Utilization of scheme :
 - main season paddy cropping intensity of 100%; 2
 - main season paddy cropping intensity of more than 50%; 22
 - main season paddy cropping intensity of less than 50%; 83
 - fully idle; 43
 - fully converted; 6

Remarkable outflow of farm labor forces to other industries has caused continuous occurrence of idle paddy fields in non-granary irrigation schemes. To revitalize such idle paddy fields, FELCRA and FOA have promoted crop diversification programs planting oil palm and cocoa. At present, the proportion of upland cropping to the whole main season cropping area is 37%. Some farmers practice upland irrigation at their own risk. Generally, farmers intend not a little to continue their farm operation by means of crop diversification although there are many farmers with strong intention to earn their income in other industries.

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 Negeri Sembilan is included into one agro-ecological zone, Region 18. As described in Appendix D of Volume 2, this Region has different advantages in growing perennial lowland crops as compared with soil-crop suitability. Under the favorable climatic condition, oil palm yield can be expected to be above the national average resulting in increase in investment performance up to the slightly higher level than rubber. 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 the half of irrigable area in each scheme. In case of the Category 7, adjustment is made to justify the necessity of continuous irrigation water supply to beneficial farmers of schemes either grown with main season paddy in more than the half of irrigable area or over 100 ha in scheme size and less than 50% in proportion of main season paddy planted area to irrigable area.

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 156 non-granary irrigation schemes as shown in Table 2, 14 schemes have the highest potential for the Category 1 and another 140 schemes for the Category 2. The first priority is also put to the Categories 6 and 7 for one scheme each.

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

**Vol. 5
State Report**

Tables & Figures

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (1/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS001	Sri Menanti	SP	DM, OP, RB
NS002	Terachi Batu 14	SP	OP, RB, DM*
NS003	Inas	SP	OP, RB, DM*
NS004	Ampang Jeram	SP	OP, RB, DM*
NS005	Sg. Muar I & II	SP	OP, RB, DM*
NS006	Kuala Nuri	SP	DM, OP, RB
NS007	Gunong Pasir		DM, OP, RB
NS008	Peraku		DM, OP, RB
NS009	Sg. Pilah		DM, OP, RB
NS010	Tanjong Ipoh	SP	OP, RB, DM*
NS011	Padang Biawas	SP	OP, RB, DM*
NS012	Terachi Batu 17	DP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS013	Kuala Jempol I	SP	OP, DM*
NS014	Kg. Ulu Parit	VG, SP, GG*	DM, CN, SC, CR, OP, PL*
NS015	Kuala Jempol II	SP	OP, DM*
NS016	Kg. Cegor		DM, OP, RB, FC
NS017	Galau	SP	DM, OP, RB
NS018	Serting Ilir	SP	OP, RB, DM*
NS019	Ulu Pilah/Gachong	SP	OP, RB, DM*
NS020	Tanjong Juan		OP, RB, DM*
NS021	Ulu Inas	SP	DM, OP, RB
NS022	Kg. Tanggai I & II	SP	OP, RB, DM*
NS023	Kuala Juaseh		DM, OP, RB
NS024	Cherian		DM, OP, RB, FC
NS025	Ulu Jempol I-V	SP	OP, RB, DM*

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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1. Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (2/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS026	Selaru		DM, OP, RB
NS027	Ulu Bendol		DM, OP, RB
NS028	Pelangai I-III		DM, OP, RB
NS029	Buyau		DM, OP, RB
NS030	Kg. Nuri		DM, OP, RB
NS031	Kg. Tumang		DM, OP, RB
NS032	Kg. Gamin		DM, OP, RB, FC
NS033	Ulu Ghalib	VG, GG*	DM, PL, CN, SC, CR, OP
NS034	Sg. Lui		OP
NS035	Bayai		OP, RB, DM*, FC
NS036	Ulu Bemban		DM, OP, RB
NS037	Ulu Melang	VG, SP, GG*	DM, PL, CN, SC, CR, OP
NS038	Air Mawang		DM, OP, RB
NS039	Rembang Panas		DM, OP, RB
NS040	Kepis		DM, OP, RB
NS041	Sg. Talan Panjang	VG, SP, GG*	DM, PL, CN, SC, CR, OP
NS042	Juaseh Tengah		DM, OP, RB, FC
NS043	Kg. Yu I & II		DM, OP, RB, FC
NS044	Kg. Birah		DM, OP, RB
NS045	Anak Air Kata		DM, OP, RB
NS046	Ulu Sungkak		DM, OP, RB, FC
NS047	Sri Jemapoh		DM, OP, RB
NS048	Serting Ulu Batu 43		OP, RB, DM*
NS049	Ulu Punggul		DM, OP, RB, FC
NS050	Majau		DM, OP, RB, 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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (3/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS051	Betong		DM, OP, RB
NS052	Merual Jerneh	VG, GG*	DM, PL, CN, SC, CR, OP
NS053	Kuala Klawang	SP	OP, RB, DM*
NS054	Sg. Klawang	SP	OP, RB, DM*
NS055	Durian Gasing	SP	OP, RB, DM*
NS056	Ulu Klawang		OP, RB, DM*
NS057	Peradong	SP	OP, RB, DM*
NS058	Ulu Jelebu	SP	OP, RB, DM*
NS059	Triang Hilir	SP	OP, RB, DM*
NS060	Sg. Jerang	SP	OP, RB, DM*
NS061	Kg. Gagu		DM, OP, RB, FC
NS062	Sg. Relai		DM, OP, RB, FC
NS063	Kg. Renal		OP, RB, DM*, FC
NS064	Kg. Seperi		OP, RB, DM*
NS065	Kg. Geylang		OP, RB, DM*
NS066	Kg. Petassch		OP, RB, DM*
NS067	Kg. Puom	SP	DM, OP, RB, FC
NS068	Air Baning		OP, RB, DM*
NS069	Kg. Lekai		OP
NS070	Kg. Kemin		DM, OP, RB, FC
NS071	Rantau Pening/Solok		DM, OP, RB, FC
NS072	Pantai		DM, OP, RB
NS073	Kg. Daching	SP	DM, OP, RB
NS074	Labu Bt. 10		OP, RB, DM*
NS075	Kg. Kombok		DM, OP, RB

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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (4/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS076	Kg. Mantin Dalam	SP	DM, OP, RB, FC
NS077	Batang Benar		DM, OP, RB
NS078	Labu Bt.9	SP	DM, OP, RB, FC
NS079	Sg. Tarun		DM, OP, RB
NS080	Kg. Chelogeh		DM, OP, RB
NS081	Batang Penar		DM, OP, RB
NS082	Kayu Ara		DM, OP, RB, FC
NS083	Ulu Beranang		DM, OP, RB, FC
NS084	Kg. Lenggeng	SP	OP, RB, DM*
NS085	Kg. Jijan		DM, OP, RB
NS086	Kg. Siliau		DM, OP, RB
NS087	Labu Hilir		DM, OP, RB
NS088	Kg. Sogoh	VG, GG*	DM, CN, SC, OP, PL*, CR*
NS089	Kg. Lambar		DM, OP, RB
NS090	Kg. Kering I		DM, OP, RB
NS091	Labu Bt. 7 1/2		DM, OP, RB, FC
NS092	Kg. Belangkan		DM, OP, RB, FC
NS093	Kg. Bemban		DM, OP, RB, FC
NS094	Kg. Gebok		DM, OP, RB, FC
NS095	Kg. Junjun		DM, OP, RB, FC
NS096	Kg. Kering II		DM, OP, RB, FC
NS097	Lekong Karpal	SP	DM, OP, RB, FC
NS098	Kg. Machang Hulu		DM, OP, RB
NS099	Kg. Jelatok		DM, OP, RB
NS100	Kg. Kanchong		OP, RB, DM*

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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (5/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS101	Solok Bangkong	VG, GG*	DM, CN, SC, OP, PL*, CR*
NS102	Ulu Sepri		OP, RB, DM*
NS103	Tiga Nenek	SP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS104	Sg. Lalah/Sg. Batu		OP, RB, DM*, FC
NS105	Gadong		OP, RB, DM*, FC
NS106	Mampong	SP	OP, RB, DM*
NS107	Penajis		OP, RB, DM*
NS108	Kendong I-II		OP, RB, DM*
NS109	Legong Hilir	SP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS110	Ampang Serong	SP	OP, RB, DM*
NS111	Ampang Limau	SP	OP, RB, DM*
NS112	Chembong	SP	OP, RB, DM*
NS113	Ulu Gaing		OP, RB, DM*
NS114	Air Panas	VG, SP, GG*	DM, CN, SC, OP, PL*, CR*, FC
NS115	Kg. Pilin	SP, VG*, GG*	CN, SC, DM*, PL*, CR*
NS116	Sg. Layang	SP	OP, RB, DM*
NS117	Miku		OP, RB, DM*
NS118	Ulu Chembong		OP, RB, DM*, FC
NS119	Kundur		OP, RB, DM*
NS120	Kg. Gating		DM, OP, RB, FC
NS121	Chengkau Ulu	VG, GG*	CN, SC, OP, DM*, PL*, CR*
NS122	Kg. Lada	VG, GG*	DM, CN, SC, OP, PL*, CR*, FC
NS123	Ulu Gadong		OP, RB, DM*
NS124	Semberbok		OP, RB, DM*
NS125	Anak Air Tontong	SP	OP, RB, DM*

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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (6/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS126	Sg. Ibor		DM, OP, RB, FC
NS127	Senama		OP, RB, DM*
NS128	Ulu Semin	VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS129	Pilin Tengah	VG, GG*	CN, SC, OP, DM*, PL*, CR*
NS130	Ulu Padang Besar		OP, RB, DM*
NS131	Sawah Raja		DM, OP, RB, FC
NS132	Kg. Chuai		DM, OP, RB, FC
NS133	Batang Nyamor		OP, RB, DM*
NS134	Bongek		OP, RB, DM*
NS135	Kundur		DM, OP, RB, FC
NS136	Kundur Hilir		OP, RB, DM*, FC
NS137	Pulau Mampat		OP, RB, DM*
NS138	Repah		CC
NS139	Tampin Tengah	SP	DM, OP, RB, FC
NS140	Ulu Repah		CC
NS141	Ulu Gemencheh		DM, OP, RB
NS142	Sg. Dua	SP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS143	Kg. Londah	SP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS144	Kg. Jelawai	VG, SP, GG*	CN, SC, OP, DM*, PL*, CR*
NS145	Kg. Bangkahulu	SP, VG*, GG*	CN, SC, OP, DM*, PL*, CR*
NS146	Gemencheh Lama		OP, RB, DM*
NS147	Kg. Pondo		OP
NS148	Sg. Salah/Sg. Jernih		OP, RB, DM*
NS149	Kg. Keru		OP, RB, DM*
NS150	Batang Rokan		CC

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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 1 Priority Order of Selected Crops for Each Scheme

State : Negeri Sembilan (7/7)

Code No.	Scheme	Annual Crops	Perennial Crops
NS151	Ulu Tebong		DM, OP, RB, FC
NS152	Sg. Kelamah	VG, GG*	DM, CN, SC, OP, PL*, CR*
NS153	Jimah		OP, RB, DM*
NS154	Sg. Raya	SP, VG*	
NS155	Linggi	VG, SP, GG*	CN, SC, OP, DM*, PL*, CR*
NS156	Tampin Kanan		DM, OP, RB, 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

CN; Cashewnut

CR; Citrus

PL; Pineapple

OP; Oil palm

RB; Rubber

TB; Tobacco

SC; Sugarcane

FC; Freshwater fish pond

CC; Cocoa

Table 2 Crop Diversification Potential for Each Scheme

State : N.Sembilan (1/4)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
NS001	Sri Menanti	.	*1	.	.	.	.	*2	.
NS002	Terachi Batu 14	.	*1	.	.	.	.	*2	.
NS003	Inas	.	*1	.	.	.	.	*2	.
NS004	Ampang Jeram	.	*1	.	.	.	.	*2	.
NS005	Sg. Muar I & II	.	*1	.	.	.	.	*2	.
NS006	Kuala Nuri	.	*1	.	.	.	.	*2	.
NS007	Gunong Pasir	.	*1	.	.	.	.	.	.
NS008	Peraku	.	*1	.	.	.	.	.	.
NS009	Sg. Pilah	.	*1	.	.	.	.	.	.
NS010	Tanjong Ipoh	.	*1	.	.	.	.	*2	.
NS011	Padang Biawas	.	*1	.	.	.	.	*2	.
NS012	Terachi Batu 17	*4	*2	*4	.	.	*1	.	.
NS013	Kuala Jempol I	.	*1	.	.	.	.	*2	.
NS014	Kg. Ulu Parit	*1	*3	*2	.	.	.	*3	.
NS015	Kuala Jempol II	.	*1	.	.	.	.	*2	.
NS016	Kg. Cegor	.	*1	.	.	*2	.	.	.
NS017	Galau	.	*1	.	.	.	.	*2	.
NS018	Serting Ilir	.	*1	.	.	.	.	*2	.
NS019	Ulu Pilah/Gachong	.	*1	.	.	.	.	*2	.
NS020	Tanjong Juan	.	*1	.	.	.	.	.	.
NS021	Ulu Inas	.	*1	.	.	.	.	*2	.
NS022	Kg. Tanggai I & II	.	*1	.	.	.	.	*2	.
NS023	Kuala Juaseh	.	*1	.	.	.	.	.	.
NS024	Cherian	.	*1	.	.	*2	.	.	.
NS025	Ulu Jempol I-V	.	*1	.	.	.	.	*2	.
NS026	Selaru	.	*1	.	.	*2	.	.	.
NS027	Ulu Bendol	.	*1	.	.	.	.	.	.
NS028	Pelangai I-III	.	*1	.	.	.	.	.	.
NS029	Buyau	.	*1	.	.	*2	.	.	.
NS030	Kg. Nuri	.	*1	.	.	.	.	.	.
NS031	Kg. Tumang	.	*1	.	.	.	.	.	.
NS032	Kg. Gamin	.	*1	.	.	*2	.	.	.
NS033	Ulu Ghalib	*1	*2	.	.	.	.	.	.
NS034	Sg. Lui	.	*1	.	.	.	.	.	.
NS035	Bayai	.	*1	.	.	*2	.	.	.
NS036	Ulu Bemban	.	*1	.	.	.	.	.	.
NS037	Ulu Melang	*1	*3	*2	.	.	.	*3	.
NS038	Air Mawang	.	*1	.	.	.	.	.	.
NS039	Rembang Panas	.	*1	.	.	.	.	.	.
NS040	Kepis	.	*1	.	.	.	.	*2	.
NS041	Sg. Talan Panjang	*1	*3	*2	.	.	.	*3	.
NS042	Juaseh Tengah	.	*1	.	.	*2	.	.	.
NS043	Kg. Yu I & II	.	*1	.	.	.	.	.	.
NS044	Kg. Birah	.	*1	.	.	.	.	.	.
NS045	Anak Air Kata	.	*1	.	.	.	.	.	.

Table 2 Crop Diversification Potential for Each Scheme

State : N.Sembilan (2/4)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
NS046	Ulu Sungkak	.	*1	.	.	*2	.	.	.
NS047	Sri Jemapoh	.	*1	.	.	.	.	.	.
NS048	Serting Ulu Batu 43	.	*1	.	.	.	.	.	.
NS049	Ulu Punggul	.	*1	.	.	.	.	.	.
NS050	Majau	.	*1	.	.	*2	.	.	.
NS051	Betong	.	*1	.	.	.	.	.	.
NS052	Merual Jerneh	*1	*2	.	.	.	.	.	.
NS053	Kuala Klawang	.	*1	.	.	.	.	*2	.
NS054	Sg. Klawang	.	*1	.	.	.	.	*2	.
NS055	Durian Gasing	.	*1	.	.	.	.	*2	.
NS056	Ulu Klawang	.	*1	.	.	.	.	.	.
NS057	Peradong	.	*1	.	.	.	.	*2	.
NS058	Ulu Jelebu	.	*1	.	.	.	.	*2	.
NS059	Triang Hilir	.	*1	.	.	.	.	*2	.
NS060	Sg. Jerang	.	*1	.	.	.	.	*2	.
NS061	Kg. Gagu	.	*1	.	.	*2	.	.	.
NS062	Sg. Relai	.	*1	.	.	*2	.	.	.
NS063	Kg. Renal	.	*1	.	.	*2	.	.	.
NS064	Kg. Seperi	.	*1	.	.	.	.	.	.
NS065	Kg. Geylang	.	*1	.	.	.	.	.	.
NS066	Kg. Petasseh	.	*1	.	.	.	.	.	.
NS067	Kg. Puom	.	*1	.	.	*2	.	*3	.
NS068	Air Baning	.	*1	.	.	.	.	.	.
NS069	Kg. Lekai	.	*1	.	.	.	.	.	.
NS070	Kg. Kemin	.	*1	.	.	*2	.	.	.
NS071	Rantau Pening/Solok	.	*1	.	.	*2	.	.	.
NS072	Pantai	.	*1	.	.	.	.	.	.
NS073	Kg. Daching	.	*1	.	.	.	.	*2	.
NS074	Labu Bt. 10	.	*1	.	.	.	.	.	.
NS075	Kg. Kombok	.	*1	.	.	.	.	.	.
NS076	Kg. Mantin Dalam	.	*1	.	.	*3	.	*2	.
NS077	Batang Benar	.	*1	.	.	.	.	.	.
NS078	Labu Bt.9	.	*1	.	.	*3	.	*2	.
NS079	Sg. Tarun	.	*1	.	.	.	.	.	.
NS080	Kg. Chelogeh	.	*1	.	.	.	.	.	.
NS081	Batang Penar	.	*1	.	.	.	.	.	.
NS082	Kayu Ara	.	*1	.	.	*2	.	.	.
NS083	Ulu Beranang	.	*1	.	.	*2	.	.	.
NS084	Kg. Lenggeng	.	*1	.	.	.	.	*2	.
NS085	Kg. Jijan	.	*1	.	.	.	.	.	.
NS086	Kg. Silliau	.	*1	.	.	.	.	.	.
NS087	Labu Hilir	.	*1	.	.	.	.	.	.
NS088	Kg. Sogoh	*1	*2	.	.	.	.	.	.
NS089	Kg. Lambar	.	*1	.	.	.	.	.	.
NS090	Kg. Kering I	.	*1	.	.	.	.	.	.

Table 2 Crop Diversification Potential for Each Scheme

State : N.Sembilan (3/4)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
NS091	Labu Bt. 7 1/2	.	*1	.	.	*2	.	.	.
NS092	Kg. Belangan	.	*1	.	.	*2	.	.	.
NS093	Kg. Bemban	.	*1	.	.	*2	.	.	.
NS094	Kg. Gebok	.	*1	.	.	*2	.	.	.
NS095	Kg. Junjun	.	*1	.	.	*2	.	.	.
NS096	Kg. Kering II	.	*1	.	.	*2	.	.	.
NS097	Lekong Karpal	.	*1	.	.	*3	.	*2	.
NS098	Kg. Machang Hulu	.	*1	.	.	.	.	.	.
NS099	Kg. Jelatok	.	*1	.	.	.	.	.	.
NS100	Kg. Kanchong	.	*1	.	.	.	.	.	.
NS101	Solok Bangkok	*1	*2	.	.	.	.	.	.
NS102	Ulu Sepri	.	*1	.	.	.	.	.	.
NS103	Tiga Nenek	*4	*1	*4	.	.	.	*2	.
NS104	Sg. Lalah/Sg. Batu	.	*1	.	.	*2	.	.	.
NS105	Gadong	.	*1	.	.	*2	.	.	.
NS106	Mampong	.	*1	.	.	.	.	*2	.
NS107	Penajis	.	*1	.	.	.	.	.	.
NS108	Kendong I-II	.	*1	.	.	.	.	.	.
NS109	Legong Hilir	*4	*1	*4	.	.	.	*2	.
NS110	Ampang Serong	.	*1	.	.	.	.	*2	.
NS111	Ampang Limau	.	*1	.	.	.	.	*2	.
NS112	Chembong	.	*1	.	.	.	.	*2	.
NS113	Ulu Gaing	.	*1	.	.	.	.	.	.
NS114	Air Panas	*1	*3	*2	.	*3	.	*3	.
NS115	Kg. Pilin	*4	*1	*4	.	.	.	*2	.
NS116	Sg. Layang	.	*1	.	.	.	.	.	.
NS117	Miku	.	*1	.	.	.	.	.	.
NS118	Ulu Chembong	.	*1	.	.	*2	.	.	.
NS119	Kundur	.	*1	.	.	.	.	.	.
NS120	Kg. Gating	.	*1	.	.	*2	.	.	.
NS121	Chengkau Ulu	*1	*2	.	.	.	.	.	.
NS122	Kg. Lada	*1	*2	.	.	.	.	.	.
NS123	Ulu Gadong	.	*1	.	.	.	.	.	.
NS124	Semerbok	.	*1	.	.	.	.	.	.
NS125	Anak Air Tontong	.	*1	.	.	.	.	*2	.
NS126	Sg. Ibor	.	*1	.	.	*2	.	.	.
NS127	Senama	.	*1	.	.	.	.	.	.
NS128	Ulu Semin	*4	*1	.	.	.	.	.	.
NS129	Pilin Tengah	*1	*2	.	.	.	.	.	.
NS130	Ulu Padang Besar	.	*1	.	.	.	.	.	.
NS131	Sawah Raja	.	*1	.	.	*2	.	.	.
NS132	Kg. Chuai	.	*1	.	.	*2	.	.	.
NS133	Batang Nyamor	.	*1	.	.	.	.	.	.
NS134	Bongek	.	*1	.	.	.	.	.	.
NS135	Kundur	.	*1	.	.	*2	.	.	.

Table 2 Crop Diversification Potential for Each Scheme

State : N.Sembilan (4/4)

Code	Scheme	Category							
		1	2	3	4	5	6	7	8
NS136	Kundur Hilir	.	*1	.	.	*2	.	.	.
NS137	Pulau Mampat	.	*1	.	.	.	.	.	.
NS138	Repah	.	*1	.	.	.	.	.	.
NS139	Tampin Tengah	.	*1	.	.	*3	.	*2	.
NS140	Ulu Repah	.	*1	.	.	.	.	.	.
NS141	Ulu Gemencheh	.	*1	.	.	.	.	.	.
NS142	Sg. Dua	*4	*1	*4	.	.	.	*2	.
NS143	Kg. Londah	*4	*1	*4	.	.	.	*2	.
NS144	Kg. Jelawai	*1	*3	*2	.	.	.	*3	.
NS145	Kg. Bangkahulu	*4	*1	*4	.	.	.	*2	.
NS146	Gemencheh Lama	.	*1	.	.	.	.	.	.
NS147	Kg. Pondoi	.	*1	.	.	.	.	.	.
NS148	Sg. Salah/Sg. Jernih	.	*1	.	.	.	.	.	.
NS149	Kg. Keru	.	*1	.	.	.	.	.	.
NS150	Batang Rokan	.	*1	.	.	.	.	.	.
NS151	Ulu Tebong	.	*1	.	.	*2	.	.	.
NS152	Sg. Kelamah	*1	*2	.	.	.	.	.	.
NS153	Jimah	.	*1	.	.	.	.	.	.
NS154	Sg. Raya	*4	.	*4	.	.	.	*1	.
NS155	Linggi	*1	*3	*2	.	.	.	*3	.
NS156	Tampin Kanan	.	*1	.	.	*2	.	.	.
*1	Super category	14	140	.	.	.	1	1	.
*2	2nd priority category	.	9	6	.	34	.	42	.
*3	3rd priority category	.	7	.	.	5	.	7	.
*4	4th priority category with needs of regional marketing promotion	9	.	8	.	.	.	.	.

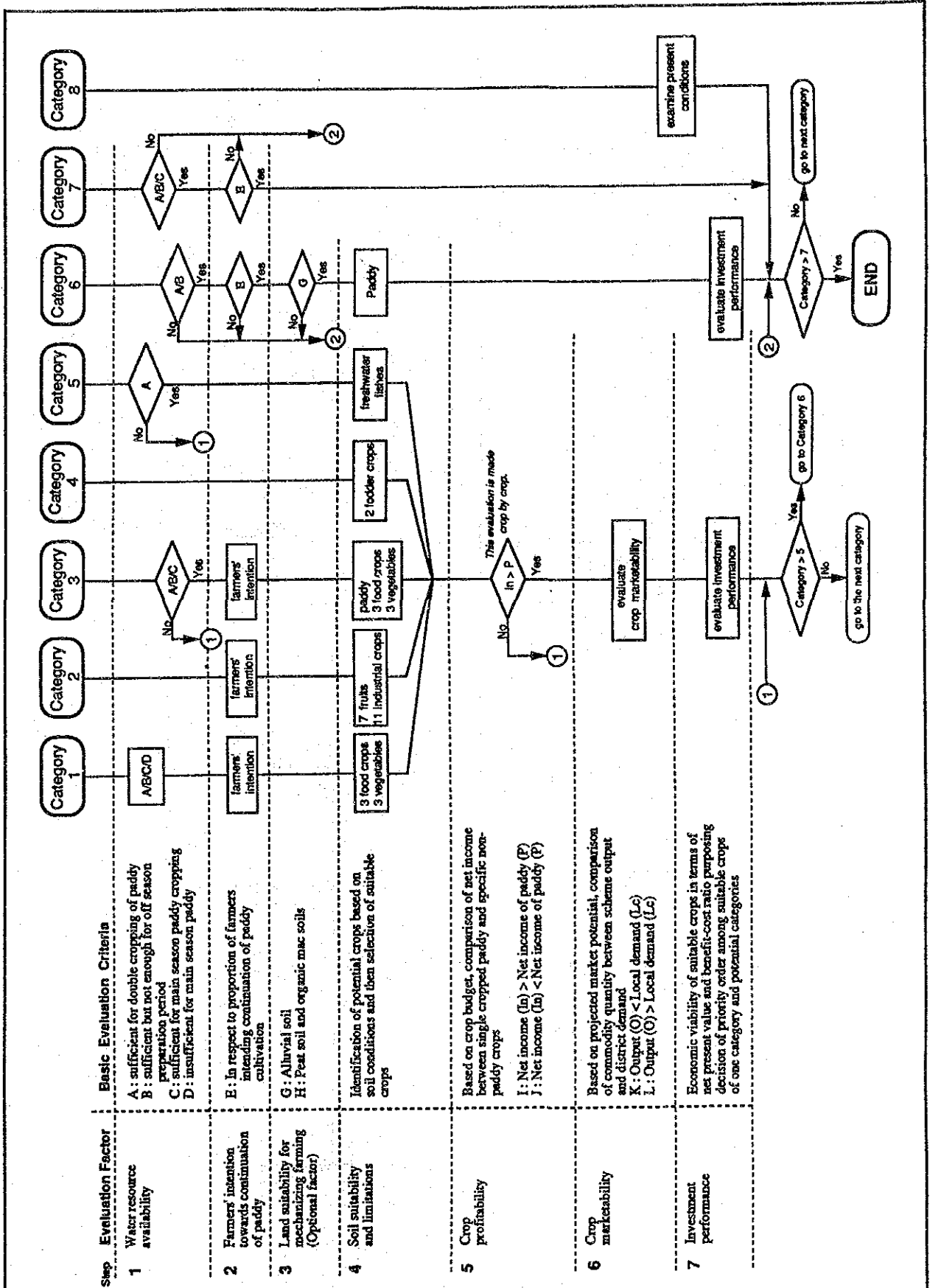


Fig. 1
Criteria and Procedure of Evaluation for Crop Diversification Potential

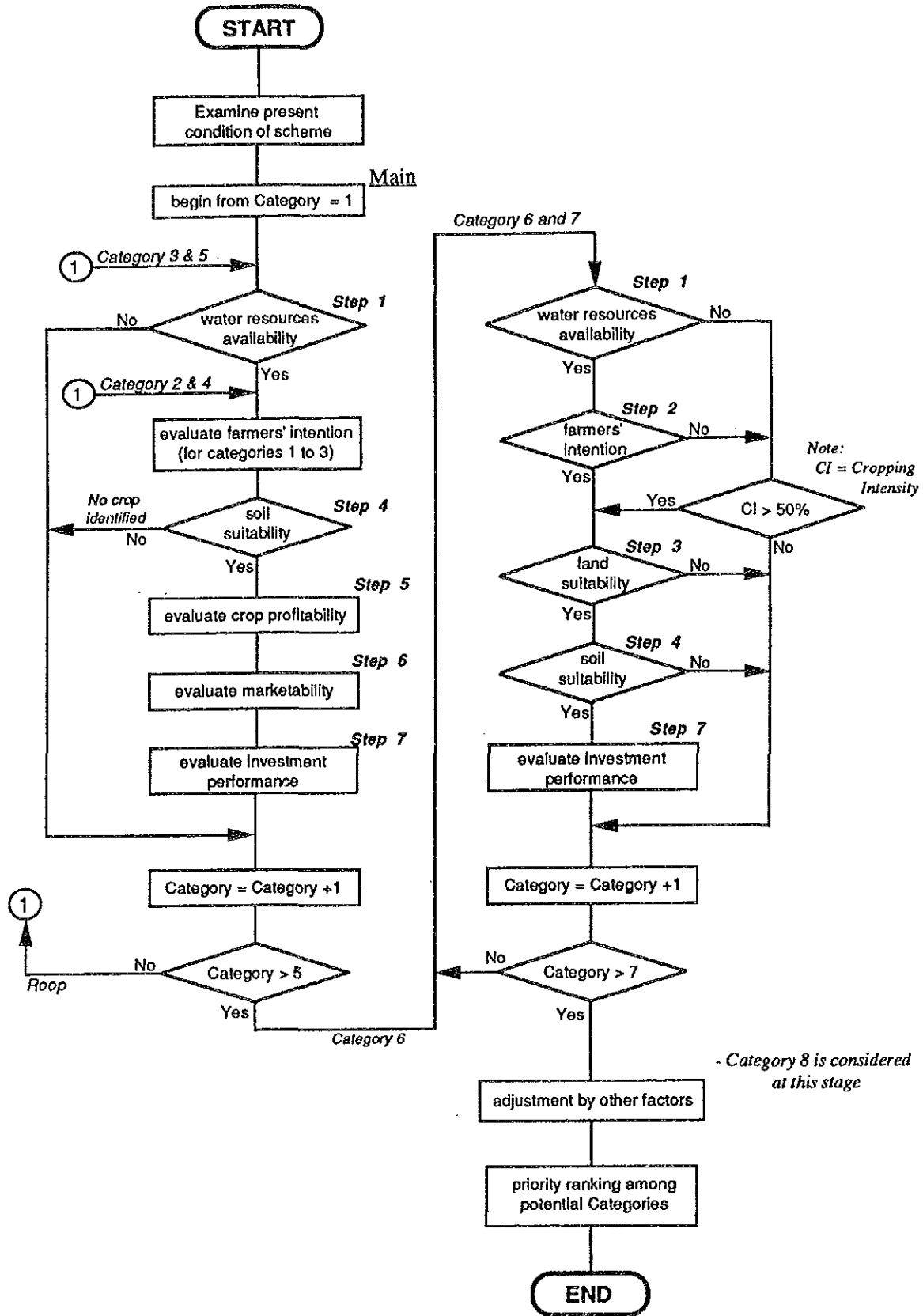


Fig. 2
General Flow of Evaluation
for Crop Diversification Potential

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*

*Vol. 5
State Report*

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

CONTENTS

	<u>Page</u>
NS001 Sri Menanti	1
NS002 Terachi Batu 14	2
NS003 Inas	3
NS004 Ampang Jeram	4
NS005 Sg. Muar I & II	5
NS006 Kuala Nuri	6
NS007 Gunong Pasir	7
NS008 Peraku	8
NS009 Sg. Pilah	9
NS010 Tanjong Ipoh	10
NS011 Padang Biawas	11
NS012 Terachi Batu 17	12
NS013 Kuala Jempol I	13
NS014 Kg. Ulu Parit	14
NS015 Kuala Jempol II	15
NS016 Kg. Cegor	16
NS017 Galau	17
NS018 Serting Ilir	18
NS019 Ulu Pilah/Gachong	19
NS020 Tanjong Juan	20
NS021 Ulu Inas	21
NS022 Kg. Tanggai I & II	22
NS023 Kuala Juasseh	23
NS024 Cheriau	24
NS025 Ulu Jempol I-V	25
NS026 Selaru	26
NS027 Ulu Bendol	27
NS028 Pelangai I-III	28
NS029 Buyau	29
NS030 Kg. Nuri	30
NS031 Kg. Tumang	31
NS032 Kg. Gamin	32
NS033 Ulu Ghalib	33
NS034 Sg. Lui	34
NS035 Bayai	35
NS036 Ulu Bemban	36
NS037 Ulu Melang	37
NS038 Air Mawang	38
NS039 Rembang Panas	39
NS040 Kepis	40
NS041 Sg. Talan Panjang	41
NS042 Juaseh Tengah	42
NS043 Kg. Yu I & II	43
NS044 Kg. Birah	44
NS045 Anak Air Kata	45
NS046 Ulu Sungkak	46

	<u>Page</u>
NS047	Sri Jemapoh 47
NS048	Senting Ulu Batu 43 48
NS049	Ulu Punggul 49
NS050	Majau 50
NS051	Betong 51
NS052	Merual Jerneh 52
NS053	Kuala Klawang 53
NS054	Sg. Klawang 54
NS055	Durian Gasing 55
NS056	Ulu Klawang 56
NS057	Peradong 57
NS058	Ulu Jelebu 58
NS059	Triang Hilir 59
NS060	Sg. Jerang 60
NS061	Kg. Gagu 61
NS062	Sg. Relai 62
NS063	Kg. Renal 63
NS064	Kg. Seperi 64
NS065	Kg. Geylang 65
NS066	Kg. Petasseh 66
NS067	Kg. Puom 67
NS068	Air Baning 68
NS069	Kg. Lekai 69
NS070	Kg. Kemin 70
NS071	Rantau Pening/Solok 71
NS072	Pantai 72
NS073	Kg. Daching 73
NS074	Labu Bt. 10 74
NS075	Kg. Kombok 75
NS076	Kg. Mantin Dalam 76
NS077	Batang Benar 77
NS078	Labu Bt. 9 78
NS079	Sg. Tarun 79
NS080	Kg. Chelogeh 80
NS081	Batang Penar 81
NS082	Kayu Ara 82
NS083	Ulu Beranang 83
NS084	Kg. Lenggeng 84
NS085	Kg. Jijan 85
NS086	Kg. Siliau 86
NS087	Labu Hilir 87
NS088	Kg. Sogoh 88
NS089	Kg. Lambar 89
NS090	Kg. Kering I 90
NS091	Labu Bt. 7 1/2 91
NS092	Kg. Belangkan 92
NS093	Kg. Bemban 93
NS094	Kg. Gebok 94
NS095	Kg. Junjun 95
NS096	Kg. Kering II 96
NS097	Lekong Karpal 97

	<u>Page</u>
NS098	Kg. Machang Hulu 98
NS099	Kg. Jelatok 99
NS100	Kg. Kanchong 100
NS101	Solok Bangkong 101
NS102	Ulu Sepri 102
NS103	Tiga Nenek 103
NS104	Sg. Lalah/Sg. Batu 104
NS105	Gadong 105
NS106	Mampong 106
NS107	Penajis 107
NS108	Kendong I-II 108
NS109	Legong Hilir 109
NS110	Ampang Serong 110
NS111	Ampang Limau 111
NS112	Chembong 112
NS113	Ulu Gaing 113
NS114	Air Panas 114
NS115	Kg. Pilin 115
NS116	Sg. Layang 116
NS117	Miku 117
NS118	Ulu Chembong 118
NS119	Kundur 119
NS120	Kg. Gating 120
NS121	Chengkau Ulu 121
NS122	Kg. Lada 122
NS123	Ulu Gadong 123
NS124	Semberbok 124
NS125	Anak Air Tontong 125
NS126	Sg. Ibor 126
NS127	Senama 127
NS128	Ulu Senin 128
NS129	Pilin Tengah 129
NS130	Ulu Padang Besar 130
NS131	Sawah Raja 131
NS132	Kg. Chuai 132
NS133	Batang Nyamor 133
NS134	Bonggek 134
NS135	Kundur 135
NS136	Kundur Hilir 136
NS137	Pulau Mampat 137
NS138	Repah 138
NS139	Tampin Tengah 139
NS140	Ulu Repah 140
NS141	Ulu Gemencheh 141
NS142	Sg. Dua 142
NS143	Kg. Londah 143
NS144	Kg. Jelawai 144
NS145	Kg. Bangkahulu 145
NS146	Gemencheh Lama 146
NS147	Kg. Pondo 147
NS148	Sg. Salah/Sg. Jernih 148

	<u>Page</u>
NS149 Kg. Keru	149
NS150 Batang Rokan	150
NS151 Ulu Tebong	151
NS152 Sg. Kelamah	152
NS153 Jimah	153
NS154 Sg. Raya	154
NS155 Linggi	155
NS156 Tampin Kanan	156

Crop Diversification Potential for NS001

Code Number : NS001 Name of Scheme : Sri Menanti
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 101 Off : 67
 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	-		1,515
				Groundnut	C	A	A		264
				Vegetable	C	A	A		1,788
2	*	*	*	Durian/Mango	C	A	A	11.0	687
				Guava	C	A	-	3.1	2,424
				Banana	C	A	A	0.7	1,061
				Cashewnut	C	A	A		178
				Papaya	C	A	-		2,525
				Citrus	C	A	-		1,061
				Pineapple	C	A	-	0.5	2,424
				Coconut	A	-	A		442
				Oilpalm	C	A	A	0.9	1,939
				Cocoa	C	A	A	0.6	313
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>138</u>
				Coffee	C	A	A		89
				Tea	C	A	A		131
				Clove	C	A	A		31
Tabacco	C	A	A		909				
Sugarcane	C	A	A		2,020				
Pepper	C	A	A		298				
3	*	*	*	Maize	C	-	-		328
				Sorghum	C	-	A		379
				Ginger	C	A	-		1,515
				Groundnut	C	A	A		264
				Vegetable	C	A	A		1,788
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 NS002

Code Number : NS002 Name of Scheme : Terachi Batu 14
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 112 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	C	A	-		1,680
				Groundnut	C	A	A		292
				Vegetable	C	A	A		1,982
2	*	*	*	Durian/Mango	C	A	-	11.0	762
				Guava	C	A	-	3.1	2,688
				Banana	C	A	A	0.7	1,176
				Cashewnut	C	A	A		197
				Papaya	C	A	-		2,800
				Citrus	C	A	-		1,176
				Pineapple	C	A	-	0.5	2,688
				Coconut	A	-	A		491
				Oilpalm	C	A	A	0.9	2,150
				Cocoa	C	A	A	0.6	347
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>153</u>
				Coffee	C	A	A		99
				Tea	C	A	A		146
				Clove	C	A	A		35
Tabacco	C	A	A		1,008				
Sugarcane	C	A	A		2,240				
Pepper	C	A	A		330				
3	*	*	*	Maize	C	-	-		364
				Sorghum	C	-	A		420
				Ginger	C	A	-		1,680
				Groundnut	C	A	A		292
				Vegetable	C	A	A		1,982
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 NS003

Code Number : NS003 Name of Scheme : Inas
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 109 Off : 108
 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	-		1,635
				Groundnut	C	A	A		285
				Vegetable	C	A	A		1,930
2	*	*	*	Durian/Mango	C	A	-	11.0	741
				Guava	C	A	-	3.1	2,616
				Banana	C	A	A	0.7	1,145
				Cashewnut	C	A	A		192
				Papaya	C	A	-		2,725
				Citrus	C	A	-		1,145
				Pineapple	C	A	-	0.5	2,616
				Coconut	A	-	A		477
				Oilpalm	C	A	A	0.9	2,093
				Cocoa	C	A	A	0.6	338
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>149</u>
				Coffee	C	A	A		96
				Tea	C	A	A		141
				Clove	C	A	A		33
Tabacco	C	A	A		981				
Sugarcane	C	A	A		2,180				
Pepper	C	A	A		322				
3	*	*	*	Maize	C	-	-		354
				Sorghum	C	-	A		409
				Ginger	C	A	-		1,635
				Groundnut	C	A	A		285
				Vegetable	C	A	A		1,930
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 NS004

Code Number : NS004 Name of Scheme : Ampang Jeram
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 122 Off : 122
 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	-		1,830
				Groundnut	C	A	A		318
				Vegetable	C	A	A		2,159
2	*	*	*	Durian/Mango	C	A	-	11.0	830
				Guava	C	A	-	3.1	2,928
				Banana	C	A	A	0.7	1,281
				Cashewnut	C	A	A		215
				Papaya	C	A	-		3,050
				Citrus	C	A	-		1,281
				Pineapple	C	A	-	0.5	2,928
				Coconut	A	-	A		534
				Oilpalm	C	A	A	0.9	2,342
				Cocoa	C	A	A	0.6	378
				<u>Rubber</u>	A	A	A	1.1	167
				Coffee	C	A	A		107
				Tea	C	A	A		159
				Clove	C	A	A		38
Tabacco	C	A	A		1,098				
Sugarcane	C	A	A		2,440				
Pepper	C	A	A		360				
3	*	*	*	Maize	C	-	-		397
				Sorghum	C	-	A		458
				Ginger	C	A	-		1,830
				Groundnut	C	A	A		318
				Vegetable	C	A	A		2,159
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 NS005

Code Number : NS005 Name of Scheme : Sg. Muar I & II
 State : N.Sembilan District : Kuala Pilah & Jempol
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 601 Off : 567
 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	-		9,015
				Groundnut	C	A	A		1,569
				Vegetable	C	A	-		10,638
2	*	*	*	Durian/Mango	C	A	-	11.0	4,087
				Guava	C	A	-	3.1	14,424
				Banana	C	A	-	0.7	6,311
				Cashewnut	C	A	A		1,058
				Papaya	C	A	-		15,025
				Citrus	C	A	-		6,311
				Pineapple	C	A	-	0.5	14,424
				Coconut	A	-	A		2,632
				Oilpalm	C	A	A	0.9	11,539
				Cocoa	C	A	A	0.6	1,863
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>823</u>
				Coffee	C	A	A		529
				Tea	C	A	A		781
				Clove	C	A	A		186
Tabacco	C	A	A		5,409				
Sugarcane	C	A	A		12,020				
Pepper	C	A	A		1,773				
3	*	*	*	Maize	C	-	-		1,953
				Sorghum	C	-	A		2,254
				Ginger	C	A	-		9,015
				Groundnut	C	A	A		1,569
				Vegetable	C	A	-		10,638
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 NS006

Code Number : NS006 Name of Scheme : Kuala Nuri
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 103 Off : 61
 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	-		1,545
				Groundnut	C	A	A		269
				Vegetable	C	A	A		1,823
2	*	*	*	Durian/Mango	C	A	A	11.0	700
				Guava	C	A	-	3.1	2,472
				Banana	C	A	A	0.7	1,082
				Cashewnut	C	A	A		181
				Papaya	C	A	-		2,575
				Citrus	C	A	-		1,082
				Pineapple	C	A	-	0.5	2,472
				Coconut	A	-	A		451
				Oilpalm	C	A	A	0.9	1,978
				Cocoa	C	A	A	0.6	319
				<u>Rubber</u>	A	A	A	1.1	141
				Coffee	C	A	A		91
				Tea	C	A	A		134
				Clove	C	A	A		32
Tabacco	C	A	A		927				
Sugarcane	C	A	A		2,060				
Pepper	C	A	A		304				
3	*	*	*	Maize	C	-	-		335
				Sorghum	C	-	A		386
				Ginger	C	A	-		1,545
				Groundnut	C	A	A		269
				Vegetable	C	A	A		1,823
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 NS007

Code Number : NS007 Name of Scheme : Gunong Pasir
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 66 Off : 40
 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	-		990
				Groundnut	C	A	A		172
				Vegetable	C	A	A		1,168
2	*	*	*	Durian/Mango	C	A	A	11.0	449
				Guava	C	A	-	3.1	1,584
				Banana	C	A	A	0.7	693
				Cashewnut	C	A	A		116
				Papaya	C	A	-		1,650
				Citrus	C	A	-		693
				Pineapple	C	A	-	0.5	1,584
				Coconut	A	-	A		289
				Oilpalm	C	A	A	0.9	1,267
				Cocoa	C	A	A	0.6	205
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>90</u>
				Coffee	C	A	A		58
				Tea	C	A	A		86
				Clove	C	A	A		20
Tabacco	C	A	A		594				
Sugarcane	C	A	A		1,320				
Pepper	C	A	A		195				
3	*	*	*	Malze	C	-	-		215
				Sorghum	C	-	A		248
				Ginger	C	A	-		990
				Groundnut	C	A	A		172
				Vegetable	C	A	A		1,168
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 NS008

Code Number : NS008 Name of Scheme : Peraku
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 96 Off : 0
 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	-		1,440
				Groundnut	C	A	A		251
				Vegetable	C	A	A		1,699
2	*	*	*	Durian/Mango	C	A	A	11.0	653
				Guava	C	A	-	3.1	2,304
				Banana	C	A	A	0.7	1,008
				Cashewnut	C	A	A		169
				Papaya	C	A	-		2,400
				Citrus	C	A	-		1,008
				Pineapple	C	A	-	0.5	2,304
				Coconut	A	-	A		420
				Oilpalm	C	A	A	0.9	1,843
				Cocoa	C	A	A	0.6	298
				<u>Rubber</u>	A	A	A	1.1	132
				Coffee	C	A	A		84
				Tea	C	A	A		125
				Clove	C	A	A		30
Tabacco	C	A	A		864				
Sugarcane	C	A	A		1,920				
Pepper	C	A	A		283				
3	*	*	*	Maize	C	-	-		312
				Sorghum	C	-	A		360
				Ginger	C	A	-		1,440
				Groundnut	C	A	A		251
				Vegetable	C	A	A		1,699
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 NS009

Code Number : NS009 Name of Scheme : Sg. Pilah
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 48 Off : 40
 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	-	720	
				Groundnut	C	A	A	125	
				Vegetable	C	A	A	850	
2	*	*	*	Durian/Mango	C	A	A	11.0	326
				Guava	C	A	-	3.1	1,152
				Banana	C	A	A	0.7	504
				Cashewnut	C	A	A		84
				Papaya	C	A	-		1,200
				Citrus	C	A	-		504
				Pineapple	C	A	-	0.5	1,152
				Coconut	A	-	A		210
				Oilpalm	C	A	A	0.9	922
				Cocoa	C	A	A	0.6	149
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>66</u>
				Coffee	C	A	A		42
				Tea	C	A	A		62
				Clove	C	A	A		15
Tabacco	C	A	A		432				
Sugarcane	C	A	A		960				
Pepper	C	A	A		142				
3	*	*	*	Malze	C	-	-	156	
				Sorghum	C	-	A	180	
				Ginger	C	A	-	720	
				Groundnut	C	A	A	125	
				Vegetable	C	A	A	850	
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 NS010

Code Number : NS010 Name of Scheme : Tanjong Ipoh
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 360 Off : 340
 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	-		5,400
				Groundnut	C	A	A		940
				Vegetable	C	A	-		6,372
2	*	*	*	Durian/Mango	C	A	-	11.0	2,448
				Guava	C	A	-	3.1	8,640
				Banana	C	A	-	0.7	3,780
				Cashewnut	C	A	A		634
				Papaya	C	A	-		9,000
				Citrus	C	A	-		3,780
				Pineapple	C	A	-	0.5	8,640
				Coconut	A	-	A		1,577
				Oilpalm	C	A	A	0.9	6,912
				Cocoa	C	A	A	0.6	1,116
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>493</u>
				Coffee	C	A	A		317
				Tea	C	A	A		468
				Clove	C	A	A		112
Tabacco	C	A	A		3,240				
Sugarcane	C	A	A		7,200				
Pepper	C	A	A		1,062				
3	*	*	*	Maize	C	-	-		1,170
				Sorghum	C	-	A		1,350
				Ginger	C	A	-		5,400
				Groundnut	C	A	A		940
				Vegetable	C	A	-		6,372
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 NS011

Code Number : NS011 Name of Scheme : Padang Biawas
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 169 Off : 40
 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	-		2,535
				Groundnut	C	A	A		441
				Vegetable	C	A	-		2,991
2	*	*	*	Durian/Mango	C	A	-	11.0	1,149
				Guava	C	A	-	3.1	4,056
				Banana	C	A	A	0.7	1,775
				Cashewnut	C	A	A		297
				Papaya	C	A	-		4,225
				Citrus	C	A	-		1,775
				Pineapple	C	A	-	0.5	4,056
				Coconut	A	-	A		740
				Oilpalm	C	A	A	0.9	3,245
				Cocoa	C	A	A	0.6	524
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>232</u>
				Coffee	C	A	A		149
				Tea	C	A	A		220
				Clove	C	A	A		52
Tabacco	C	A	A		1,521				
Sugarcane	C	A	A		3,380				
Pepper	C	A	A		499				
3	*	*	*	Maize	C	-	-		549
				Sorghum	C	-	A		634
				Ginger	C	A	-		2,535
				Groundnut	C	A	A		441
				Vegetable	C	A	-		2,991
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 NS012

Code Number : NS012 Name of Scheme : Terachi Batu 17
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 134 Off : 71
 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	2,010
				Groundnut	A	A	A	0.9	350
				Vegetable	A	A	-	13.8	2,372
2	*	*	*	Durian/Mango	C	A	-	11.0	911
				Guava	C	A	-	3.1	3,216
				Banana	C	A	A	0.7	1,407
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>236</u>
				Papaya	B	A	-	0.6	3,350
				Citrus	B	A	-	2.9	1,407
				Pineapple	A	A	-	9.5	3,216
				Coconut	A	-	A		587
				Oilpalm	C	A	A	0.9	2,573
				Cocoa	C	A	A	0.6	415
				Rubber	B	A	A	0.6	184
				Sago	C	-	A		1,206
				Coffee	A	A	A	0.7	118
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>174</u>
				Clove	B	A	A	1.1	42
Tabacco	B	A	A	0.7	1,206				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>2,680</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>395</u>				
3	*	*	*	Maize	A	-	-		436
				Sorghum	A	-	A		503
				Ginger	B	A	-	2.5	2,010
				Groundnut	A	A	A	0.9	350
				Vegetable	A	A	-	13.8	2,372
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 NS013

Code Number : NS013 Name of Scheme : Kuala Jempol I
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2DnT

Irrigable area (ha) Main : 209 Off : 0
 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	-		3,135
				Groundnut	C	A	A		545
				Vegetable	C	A	-		3,699
2	*	*	*	Durian/Mango	C	A	-	11.0	1,421
				Guava	C	A	-	3.1	5,016
				Banana	C	A	-	0.7	2,195
				Cashewnut	C	A	A		368
				Papaya	C	A	-		5,225
				Citrus	C	A	-		2,195
				Pineapple	C	A	-	0.5	5,016
				Coconut	A	-	A		915
				Oilpalm	C	A	A	0.9	4,013
				Cocoa	C	A	A	0.6	648
				Rubber	C	A	A		286
				Coffee	C	A	A		184
				Tea	C	A	A		272
				Clove	C	A	A		65
Tabacco	C	A	A		1,881				
Sugarcane	C	A	A		4,180				
Pepper	C	A	A		617				
3	*	*	*	Maize	C	-	-		679
				Sorghum	C	-	A		784
				Ginger	C	A	-		3,135
				Groundnut	C	A	A		545
				Vegetable	C	A	-		3,699
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 NS014

Code Number : NS014 Name of Scheme : Kg. Ulu Parit
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2dt

Irrigable area (ha) Main : 35 Off : 8
 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	525
				Groundnut	A	A	A	0.9	91
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>620</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	238
				Guava	C	A	-	3.1	840
				Banana	C	A	A	0.7	368
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>62</u>
				Papaya	B	A	-	0.6	875
				Citrus	B	A	A	2.9	368
				Pineapple	A	A	-	9.5	840
				Coconut	A	-	A		153
				Oilpalm	C	A	A	0.9	672
				Cocoa	C	A	A	0.6	109
				Rubber	B	A	A	0.6	48
				Sago	C	-	A		315
				Coffee	A	A	A	0.7	31
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>46</u>
				Clove	B	A	A	1.1	11
				Tabacco	B	A	A	0.7	315
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>700</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>103</u>				
3	*	*	*	Maize	A	-	-		114
				Sorghum	A	-	A		131
				Ginger	B	A	-	2.5	525
				Groundnut	A	A	A	0.9	91
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>620</u>
4	*	*	*	Fodder grasses	A	-	A		
				Pasture	A	-	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 NS015

Code Number : NS015 Name of Scheme : Kuala Jempol II
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2DnT

Irrigable area (ha) Main : 282 Off : 0
 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	-		4,230
				Groundnut	C	A	A		736
				Vegetable	C	A	-		4,991
2	*	*	*	Durian/Mango	C	A	-	11.0	1,918
				Guava	C	A	-	3.1	6,768
				Banana	C	A	-	0.7	2,961
				Cashewnut	C	A	A		496
				Papaya	C	A	-		7,050
				Citrus	C	A	-		2,961
				Pineapple	C	A	-	0.5	6,768
				Coconut	A	-	A		1,235
				Oilpalm	C	A	A	0.9	5,414
				Cocoa	C	A	A	0.6	874
				Rubber	C	A	A		386
				Coffee	C	A	A		248
				Tea	C	A	A		367
				Clove	C	A	A		87
Tabacco	C	A	A		2,538				
Sugarcane	C	A	A		5,640				
Pepper	C	A	A		832				
3	*	*	*	Maize	C	-	-		917
				Sorghum	C	-	A		1,058
				Ginger	C	A	-		4,230
				Groundnut	C	A	A		736
				Vegetable	C	A	-		4,991
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 NS016

Code Number : NS016 Name of Scheme : Kg. Cegor
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 18 Off : 0
 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	-		270
				Groundnut	C	A	A		47
				Vegetable	C	A	A		319
2	*	*	*	Durian/Mango	C	A	A	11.0	122
				Guava	C	A	-	3.1	432
				Banana	C	A	A	0.7	189
				Cashewnut	C	A	A		32
				Papaya	C	A	-		450
				Citrus	C	A	A		189
				Pineapple	C	A	A	0.5	432
				Coconut	A	-	A		79
				Oilpalm	C	A	A	0.9	346
				Cocoa	C	A	A	0.6	56
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>25</u>
				Coffee	C	A	A		16
				Tea	C	A	A		23
				Clove	C	A	A		6
Tabacco	C	A	A		162				
Sugarcane	C	A	A		360				
Pepper	C	A	A		53				
3	*	*	*	Maize	C	-	-		59
				Sorghum	C	-	A		68
				Ginger	C	A	-		270
				Groundnut	C	A	A		47
				Vegetable	C	A	A		319
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 NS017

Code Number : NS017 Name of Scheme : Galau
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 103 Off : 40
 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	-		1,545
				Groundnut	C	A	A		269
				Vegetable	C	A	A		1,823
2	*	*	*	Durian/Mango	C	A	A	11.0	700
				Guava	C	A	-	3.1	2,472
				Banana	C	A	A	0.7	1,082
				Cashewnut	C	A	A		181
				Papaya	C	A	-		2,575
				Citrus	C	A	-		1,082
				Pineapple	C	A	-	0.5	2,472
				Coconut	A	-	A		451
				Oilpalm	C	A	A	0.9	1,978
				Cocoa	C	A	A	0.6	319
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>141</u>
				Coffee	C	A	A		91
				Tea	C	A	A		134
				Clove	C	A	A		32
Tabacco	C	A	A		927				
Sugarcane	C	A	A		2,060				
Pepper	C	A	A		304				
3	*	*	*	Maize	C	-	-		335
				Sorghum	C	-	A		386
				Ginger	C	A	-		1,545
				Groundnut	C	A	A		269
				Vegetable	C	A	A		1,823
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 NS018

Code Number : NS018 Name of Scheme : Serting Ilir
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 181 Off : 181
 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	-		2,715
				Groundnut	C	A	A		472
				Vegetable	C	A	-		3,204
2	*	*	*	Durian/Mango	C	A	-	11.0	1,231
				Guava	C	A	-	3.1	4,344
				Banana	C	A	-	0.7	1,901
				Cashewnut	C	A	A		319
				Papaya	C	A	-		4,525
				Citrus	C	A	-		1,901
				Pineapple	C	A	-	0.5	4,344
				Coconut	A	-	A		793
				Oilpalm	C	A	A	0.9	3,475
				Cocoa	C	A	A	0.6	561
				<u>Rubber</u>	A	A	A	1.1	248
				Coffee	C	A	A		159
				Tea	C	A	A		235
				Clove	C	A	A		56
				Tabacco	C	A	A		1,629
Sugarcane	C	A	A		3,620				
Pepper	C	A	A		534				
3	*	*	*	Maize	C	-	-		588
				Sorghum	C	-	A		679
				Ginger	C	A	-		2,715
				Groundnut	C	A	A		472
				Vegetable	C	A	-		3,204
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 NS019

Code Number : NS019 Name of Scheme : Ulu Pilah/Gachong
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 159 Off : 40
 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	-		2,385
				Groundnut	C	A	A		415
				Vegetable	C	A	-		2,814
2	*	*	*	Durian/Mango	C	A	-	11.0	1,081
				Guava	C	A	-	3.1	3,816
				Banana	C	A	A	0.7	1,670
				Cashewnut	C	A	A		280
				Papaya	C	A	-		3,975
				Citrus	C	A	-		1,670
				Pineapple	C	A	-	0.5	3,816
				Coconut	A	-	A		696
				Oilpalm	C	A	A	0.9	3,053
				Cocoa	C	A	A	0.6	493
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>218</u>
				Coffee	C	A	A		140
				Tea	C	A	A		207
				Clove	C	A	A		49
Tabacco	C	A	A		1,431				
Sugarcane	C	A	A		3,180				
Pepper	C	A	A		469				
3	*	*	*	Maize	C	-	-		517
				Sorghum	C	-	A		596
				Ginger	C	A	-		2,385
				Groundnut	C	A	A		415
				Vegetable	C	A	-		2,814
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 NS020

Code Number : NS020 Name of Scheme : Tanjong Juan
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 34 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	C	A	-		510
				Groundnut	C	A	A		89
				Vegetable	C	A	A		602
2	*	*	*	Durian/Mango	C	A	A	11.0	231
				Guava	C	A	-	3.1	816
				Banana	C	A	A	0.7	357
				Cashewnut	C	A	A		60
				Papaya	C	A	-		850
				Citrus	C	A	A		357
				Pineapple	C	A	-	0.5	816
				Coconut	A	-	A		149
				Oilpalm	C	A	A	0.9	653
				Cocoa	C	A	A	0.6	105
				<u>Rubber</u>	A	A	A	1.1	47
				Coffee	C	A	A		30
				Tea	C	A	A		44
				Clove	C	A	A		11
				Tabacco	C	A	A		306
Sugarcane	C	A	A		680				
Pepper	C	A	A		100				
3	*	*	*	Maize	C	-	-		111
				Sorghum	C	-	A		128
				Ginger	C	A	-		510
				Groundnut	C	A	A		89
				Vegetable	C	A	A		602
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 NS021

Code Number : NS021 Name of Scheme : Ulu Inas
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 52 Off : 28
 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	-	780	
				Groundnut	C	A	A	136	
				Vegetable	C	A	A	920	
2	*	*	*	Durian/Mango	C	A	A	11.0	354
				Guava	C	A	-	3.1	1,248
				Banana	C	A	A	0.7	546
				Cashewnut	C	A	A		92
				Papaya	C	A	-		1,300
				Citrus	C	A	-		546
				Pineapple	C	A	-	0.5	1,248
				Coconut	A	-	A		228
				Oilpalm	C	A	A	0.9	998
				Cocoa	C	A	A	0.6	161
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>71</u>
				Coffee	C	A	A		46
				Tea	C	A	A		68
				Clove	C	A	A		16
Tabacco	C	A	A		468				
Sugarcane	C	A	A		1,040				
Pepper	C	A	A		153				
3	*	*	*	Maize	C	-	-	169	
				Sorghum	C	-	A	195	
				Ginger	C	A	-	780	
				Groundnut	C	A	A	136	
				Vegetable	C	A	A	920	
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 NS022

Code Number : NS022 Name of Scheme : Kg. Tanggai I & II
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 127 Off : 40
 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	-		1,905
				Groundnut	C	A	A		331
				Vegetable	C	A	A		2,248
2	*	*	*	Durian/Mango	C	A	-	11.0	864
				Guava	C	A	-	3.1	3,048
				Banana	C	A	A	0.7	1,334
				Cashewnut	C	A	A		224
				Papaya	C	A	-		3,175
				Citrus	C	A	-		1,334
				Pineapple	C	A	-	0.5	3,048
				Coconut	A	-	A		556
				Oilpalm	C	A	A	0.9	2,438
				Cocoa	C	A	A	0.6	394
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>174</u>
				Coffee	C	A	A		112
				Tea	C	A	A		165
				Clove	C	A	A		39
Tabacco	C	A	A		1,143				
Sugarcane	C	A	A		2,540				
Pepper	C	A	A		375				
3	*	*	*	Maize	C	-	-		413
				Sorghum	C	-	A		476
				Ginger	C	A	-		1,905
				Groundnut	C	A	A		331
				Vegetable	C	A	A		2,248
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 NS023

Code Number : NS023 Name of Scheme : Kuala Juasseh
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 32 Off : 30
 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	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
2	*	*	*	Durian/Mango	C	A	A	11.0	218
				Guava	C	A	-	3.1	768
				Banana	C	A	A	0.7	336
				Cashewnut	C	A	A		56
				Papaya	C	A	-		800
				Citrus	C	A	A		336
				Pineapple	C	A	-	0.5	768
				Coconut	A	-	A		140
				Oilpalm	C	A	A	0.9	614
				Cocoa	C	A	A	0.6	99
				<u>Rubber</u>	A	A	A	1.1	44
				Coffee	C	A	A		28
				Tea	C	A	A		42
				Clove	C	A	A		10
Tabacco	C	A	A		288				
Sugarcane	C	A	A		640				
Pepper	C	A	A		94				
3	*	*	*	Maize	C	-	-		104
				Sorghum	C	-	A		120
				Ginger	C	A	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
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 NS024

Code Number : NS024 Name of Scheme : Cheriau
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 10 Off : 4
 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	-		150
				Groundnut	C	A	A		26
				Vegetable	C	A	A		177
2	*	*	*	Durian/Mango	C	A	A	11.0	68
				Guava	C	A	A	3.1	240
				Banana	C	A	A	0.7	105
				Cashewnut	C	A	A		18
				Papaya	C	A	-		250
				Citrus	C	A	A		105
				Pineapple	C	A	A	0.5	240
				Coconut	A	-	A		44
				Oilpalm	C	A	A	0.9	192
				Cocoa	C	A	A	0.6	31
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>14</u>
				Coffee	C	A	A		9
				Tea	C	A	A		13
				Clove	C	A	A		3
Tabacco	C	A	A		90				
Sugarcane	C	A	A		200				
Pepper	C	A	A		30				
3	*	*	*	Maize	C	-	-		33
				Sorghum	C	-	A		38
				Ginger	C	A	-		150
				Groundnut	C	A	A		26
				Vegetable	C	A	A		177
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 NS025

Code Number : NS025 Name of Scheme : Ulu Jempol I-V
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 532 Off : 202
 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	-		7,980
				Groundnut	C	A	A		1,389
				Vegetable	C	A	-		9,416
2	*	*	*	Durian/Mango	C	A	-	11.0	3,618
				Guava	C	A	-	3.1	12,768
				Banana	C	A	-	0.7	5,586
				Cashewnut	C	A	A		936
				Papaya	C	A	-		13,300
				Citrus	C	A	-		5,586
				Pineapple	C	A	-	0.5	12,768
				Coconut	A	-	A		2,330
				Oilpalm	C	A	A	0.9	10,214
				Cocoa	C	A	A	0.6	1,649
				<u>Rubber</u>	A	A	A	1.1	729
				Coffee	C	A	A		468
				Tea	C	A	A		692
Clove	C	A	A		165				
Tabacco	C	A	A		4,788				
Sugarcane	C	A	A		10,640				
Pepper	C	A	A		1,569				
3	*	*	*	Malze	C	-	-		1,729
				Sorghum	C	-	A		1,995
				Ginger	C	A	-		7,980
				Groundnut	C	A	A		1,389
				Vegetable	C	A	-		9,416
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 NS026

Code Number : NS026 Name of Scheme : Selaru
 State : N.Sembilan District : Kuala Pilah
 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 : 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	-		300
				Groundnut	C	A	A		52
				Vegetable	C	A	A		354
2	*	*	*	Durian/Mango	C	A	A	11.0	136
				Guava	C	A	-	3.1	480
				Banana	C	A	A	0.7	210
				Cashewnut	C	A	A		35
				Papaya	C	A	-		500
				Citrus	C	A	A		210
				Pineapple	C	A	A	0.5	480
				Coconut	A	-	A		88
				Oilpalm	C	A	A	0.9	384
				Cocoa	C	A	A	0.6	62
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>27</u>
				Coffee	C	A	A		18
				Tea	C	A	A		26
				Clove	C	A	A		6
Tabacco	C	A	A		180				
Sugarcane	C	A	A		400				
Pepper	C	A	A		59				
3	*	*	*	Maize	C	-	-		65
				Sorghum	C	-	A		75
				Ginger	C	A	-		300
				Groundnut	C	A	A		52
				Vegetable	C	A	A		354
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 NS027

Code Number : NS027 Name of Scheme : Ulu Bendol
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 50 Off : 8
 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	-		750
				Groundnut	C	A	A		131
				Vegetable	C	A	A		885
2	*	*	*	Durian/Mango	C	A	A	11.0	340
				Guava	C	A	-	3.1	1,200
				Banana	C	A	A	0.7	525
				Cashewnut	C	A	A		88
				Papaya	C	A	-		1,250
				Citrus	C	A	-		525
				Pineapple	C	A	-	0.5	1,200
				Coconut	A	-	A		219
				Oilpalm	C	A	A	0.9	960
				Cocoa	C	A	A	0.6	155
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>69</u>
				Coffee	C	A	A		44
				Tea	C	A	A		65
				Clove	C	A	A		16
Tabacco	C	A	A		450				
Sugarcane	C	A	A		1,000				
Pepper	C	A	A		148				
3	*	*	*	Maize	C	-	-		163
				Sorghum	C	-	A		188
				Ginger	C	A	-		750
				Groundnut	C	A	A		131
				Vegetable	C	A	A		885
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 NS028

Code Number : NS028 Name of Scheme : Pelangai I-III
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 66 Off : 61
 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	-		990
				Groundnut	C	A	A		172
				Vegetable	C	A	A		1,168
2	*	*	*	Durian/Mango	C	A	A	11.0	449
				Guava	C	A	-	3.1	1,584
				Banana	C	A	A	0.7	693
				Cashewnut	C	A	A		116
				Papaya	C	A	-		1,650
				Citrus	C	A	-		693
				Pineapple	C	A	-	0.5	1,584
				Coconut	A	-	A		289
				Oilpalm	C	A	A	0.9	1,267
				Cocoa	C	A	A	0.6	205
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>90</u>
				Coffee	C	A	A		58
				Tea	C	A	A		86
				Clove	C	A	A		20
Tabacco	C	A	A		594				
Sugarcane	C	A	A		1,320				
Pepper	C	A	A		195				
3	*	*	*	Maize	C	-	-		215
				Sorghum	C	-	A		248
				Ginger	C	A	-		990
				Groundnut	C	A	A		172
				Vegetable	C	A	A		1,168
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 NS029

Code Number : NS029 Name of Scheme : Buyau
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 21 Off : 8
 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	-		315
				Groundnut	C	A	A		55
				Vegetable	C	A	A		372
2	*	*	*	Durian/Mango	C	A	A	11.0	143
				Guava	C	A	-	3.1	504
				Banana	C	A	A	0.7	221
				Cashewnut	C	A	A		37
				Papaya	C	A	-		525
				Citrus	C	A	A		221
				Pineapple	C	A	A	0.5	504
				Coconut	A	-	A		92
				Oilpalm	C	A	A	0.9	403
				Cocoa	C	A	A	0.6	65
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>22</u>
				Coffee	C	A	A		18
				Tea	C	A	A		27
				Clove	C	A	A		7
				Tabacco	C	A	A		189
Sugarcane	C	A	A		420				
Pepper	C	A	A		62				
3	*	*	*	Maize	C	-	-		68
				Sorghum	C	-	A		79
				Ginger	C	A	-		315
				Groundnut	C	A	A		55
				Vegetable	C	A	A		372
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 NS030

Code Number : NS030 Name of Scheme : Kg. Nuri
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 42 Off : 32
 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	-		630
				Groundnut	C	A	A		110
				Vegetable	C	A	A		743
2	*	*	*	Durian/Mango	C	A	A	11.0	286
				Guava	C	A	-	3.1	1,008
				Banana	C	A	A	0.7	441
				Cashewnut	C	A	A		74
				Papaya	C	A	-		1,050
				Citrus	C	A	A		441
				Pineapple	C	A	-	0.5	1,008
				Coconut	A	-	A		184
				Oilpalm	C	A	A	0.9	806
				Cocoa	C	A	A	0.6	130
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>58</u>
				Coffee	C	A	A		37
				Tea	C	A	A		55
				Clove	C	A	A		13
				Tabacco	C	A	A		378
Sugarcane	C	A	A		840				
Pepper	C	A	A		124				
3	*	*	*	Maize	C	-	-		137
				Sorghum	C	-	A		158
				Ginger	C	A	-		630
				Groundnut	C	A	A		110
				Vegetable	C	A	A		743
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 NS031

Code Number : NS031 Name of Scheme : Kg. Tumang
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 37 Off : 16
 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	-		555
				Groundnut	C	A	A		97
				Vegetable	C	A	A		655
2	*	*	*	Durian/Mango	C	A	A	11.0	252
				Guava	C	A	-	3.1	888
				Banana	C	A	A	0.7	389
				Cashewnut	C	A	A		65
				Papaya	C	A	-		925
				Citrus	C	A	A		389
				Pineapple	C	A	-	0.5	888
				Coconut	A	-	A		162
				Oilpalm	C	A	A	0.9	710
				Cocoa	C	A	A	0.6	115
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>51</u>
				Coffee	C	A	A		33
				Tea	C	A	A		48
				Clove	C	A	A		11
Tabacco	C	A	A		333				
Sugarcane	C	A	A		740				
Pepper	C	A	A		109				
3	*	*	*	Maize	C	-	-		120
				Sorghum	C	-	A		139
				Ginger	C	A	-		555
				Groundnut	C	A	A		97
				Vegetable	C	A	A		655
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 NS032

Code Number : NS032 Name of Scheme : Kg. Gamin
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2DT

Irrigable area (ha) Main : 20 Off : 0
 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	-		300
				Groundnut	C	A	A		52
				Vegetable	C	A	A		354
2	*	*	*	Durian/Mango	C	A	A	11.0	136
				Guava	C	A	-	3.1	480
				Banana	C	A	A	0.7	210
				Cashewnut	C	A	A		35
				Papaya	C	A	-		500
				Citrus	C	A	A		210
				Pineapple	C	A	A	0.5	480
				Coconut	A	-	A		88
				Oilpalm	C	A	A	0.9	384
				Cocoa	C	A	A	0.6	62
				<u>Rubber</u>	A	A	A	1.1	27
				Coffee	C	A	A		18
				Tea	C	A	A		26
				Clove	C	A	A		6
Tabacco	C	A	A		180				
Sugercane	C	A	A		400				
Pepper	C	A	A		59				
3	*	*	*	Maize	C	-	-		65
				Sorghum	C	-	A		75
				Ginger	C	A	-		300
				Groundnut	C	A	A		52
				Vegetable	C	A	A		354
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 NS033

Code Number : NS033 Name of Scheme : Ulu Ghalib
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Insufficient for main season paddy
 Soil series : 2dt

Irrigable area (ha) Main : 15 Off : 8
 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	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	-	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									
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 NS034

Code Number : NS034 Name of Scheme : Sg. Lui
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Soil series : 2DT

Irrigable area (ha) Main : 34 Off : 21
 Trafficability of farm machinery : Good
 Paddy planting for last 3 years : Converted to other crops

Category	Step 1	Step 2	Step 3		Step 4	Step 5	Step 6	Step 7 (B/C)	Production (ton)
1	*	*	*	Ginger	C	A	-		510
				Groundnut	C	A	A		89
				Vegetable	C	A	-		602
2	*	*	*	Durian/Mango	C	A	-	11.0	231
				Guava	C	A	-	3.1	816
				Banana	C	A	-	0.7	357
				Cashewnut	C	A	A		60
				Papaya	C	A	-		850
				Citrus	C	A	-		357
				Pineapple	C	A	-	0.5	816
				Coconut	A	-	A		149
				Oilpalm	C	A	A	0.9	653
				Cocoa	C	A	A	0.6	105
				<u>Rubber</u>	A	A	A	1.1	47
				Coffee	C	A	A		30
				Tea	C	A	A		44
				Clove	C	A	A		11
Tabacco	C	A	A		306				
Sugercane	C	A	A		680				
Pepper	C	A	A		100				
3	*	*	*	Maize	C	-	-		111
				Sorghum	C	-	A		128
				Ginger	C	A	-		510
				Groundnut	C	A	A		89
				Vegetable	C	A	-		602
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 NS035

Code Number : NS035 Name of Scheme : Bayai
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 28 Off : 0
 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	-		420
				Groundnut	C	A	A		73
				Vegetable	C	A	-		496
2	*	*	*	Durian/Mango	C	A	-	11.0	190
				Guava	C	A	-	3.1	672
				Banana	C	A	-	0.7	294
				Cashewnut	C	A	A		49
				Papaya	C	A	-		700
				Citrus	C	A	-		294
				Pineapple	C	A	-	0.5	672
				Coconut	A	-	A		123
				Oilpalm	C	A	A	0.9	538
				Cocoa	C	A	A	0.6	87
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>38</u>
				Coffee	C	A	A		25
				Tea	C	A	A		36
				Clove	C	A	A		9
Tabacco	C	A	A		252				
Sugarcane	C	A	A		560				
Pepper	C	A	A		83				
3	*	*	*	Malze	C	-	-		91
				Sorghum	C	-	A		105
				Ginger	C	A	-		420
				Groundnut	C	A	A		73
				Vegetable	C	A	-		496
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 NS036

Code Number : NS036 Name of Scheme : Ulu Bemban
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2DT

Irrigable area (ha) Main : 21 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	C	A	-		315
				Groundnut	C	A	A		55
				Vegetable	C	A	A		372
2	*	*	*	Durian/Mango	C	A	A	11.0	143
				Guava	C	A	-	3.1	504
				Banana	C	A	A	0.7	221
				Cashewnut	C	A	A		37
				Papaya	C	A	-		525
				Citrus	C	A	A		221
				Pineapple	C	A	A	0.5	504
				Coconut	A	-	A		92
				Oilpalm	C	A	A	0.9	403
				Cocoa	C	A	A	0.6	65
				<u>Rubber</u>	A	A	A	1.1	29
				Coffee	C	A	A		18
				Tea	C	A	A		27
				Clove	C	A	A		7
Tabacco	C	A	A		189				
Sugercane	C	A	A		420				
Pepper	C	A	A		62				
3	*	*	*	Maize	C	-	-		68
				Sorghum	C	-	A		79
				Ginger	C	A	-		315
				Groundnut	C	A	A		55
				Vegetable	C	A	A		372
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 NS037

Code Number : NS037 Name of Scheme : Ulu Melang
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 22 Off : 0
 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	330
				Groundnut	A	A	A	0.9	57
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>389</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	150
				Guava	C	A	-	3.1	528
				Banana	C	A	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	A	2.9	231
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>528</u>
				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
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>389</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 NS038

Code Number : NS038 Name of Scheme : Air Mawang
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 40 Off : 8
 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	-		600
				Groundnut	C	A	A		104
				Vegetable	C	A	A		708
2	*	*	*	Durian/Mango	C	A	A	11.0	272
				Guava	C	A	-	3.1	960
				Banana	C	A	A	0.7	420
				Cashewnut	C	A	A		70
				Papaya	C	A	-		1,000
				Citrus	C	A	A		420
				Pineapple	C	A	-	0.5	960
				Coconut	A	-	A		175
				Oilpalm	C	A	A	0.9	768
				Cocoa	C	A	A	0.6	124
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>55</u>
				Coffee	C	A	A		35
				Tea	C	A	A		52
				Clove	C	A	A		12
Tabacco	C	A	A		360				
Sugarcane	C	A	A		800				
Pepper	C	A	A		118				
3	*	*	*	Maize	C	-	-		130
				Sorghum	C	-	A		150
				Ginger	C	A	-		600
				Groundnut	C	A	A		104
				Vegetable	C	A	A		708
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 NS039

Code Number : NS039 Name of Scheme : Rembang Panas
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 57 Off : 28
 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	-		855
				Groundnut	C	A	A		149
				Vegetable	C	A	A		1,009
2	*	*	*	Durian/Mango	C	A	A	11.0	388
				Guava	C	A	-	3.1	1,368
				Banana	C	A	A	0.7	599
				Cashewnut	C	A	A		100
				Papaya	C	A	-		1,425
				Citrus	C	A	-		599
				Pineapple	C	A	-	0.5	1,368
				Coconut	A	-	A		250
				Oilpalm	C	A	A	0.9	1,094
				Cocoa	C	A	A	0.6	177
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>78</u>
				Coffee	C	A	A		50
				Tea	C	A	A		74
				Clove	C	A	A		18
Tabacco	C	A	A		513				
Sugarcane	C	A	A		1,140				
Pepper	C	A	A		168				
3	*	*	*	Maize	C	-	-		185
				Sorghum	C	-	A		214
				Ginger	C	A	-		855
				Groundnut	C	A	A		149
				Vegetable	C	A	A		1,009
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 NS040

Code Number : NS040 Name of Scheme : Kepis
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 27 Off : 12
 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	-		675
				Citrus	C	A	A		284
				Pineapple	C	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	37
				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									
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 NS041

Code Number : NS041 Name of Scheme : Sg. Talan Panjang
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 14 Off : 0
 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	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	-	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	-	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									
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 NS042

Code Number : NS042 Name of Scheme : Juaseh Tengah
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 12 Off : 0
 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	-		180
				Groundnut	C	A	A		31
				Vegetable	C	A	A		212
2	*	*	*	Durian/Mango	C	A	A	11.0	82
				Guava	C	A	A	3.1	288
				Banana	C	A	A	0.7	126
				Cashewnut	C	A	A		21
				Papaya	C	A	-		300
				Citrus	C	A	A		126
				Pineapple	C	A	A	0.5	288
				Coconut	A	-	A		53
				Oilpalm	C	A	A	0.9	230
				Cocoa	C	A	A	0.6	37
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>16</u>
				Coffee	C	A	A		11
				Tea	C	A	A		16
				Clove	C	A	A		4
Tabacco	C	A	A		108				
Sugarcane	C	A	A		240				
Pepper	C	A	A		35				
3	*	*	*	Maize	C	-	-		39
				Sorghum	C	-	A		45
				Ginger	C	A	-		180
				Groundnut	C	A	A		31
				Vegetable	C	A	A		212
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 NS043

Code Number : NS043 Name of Scheme : Kg. Yu I & II
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 18 Off : 8
 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	-		270
				Groundnut	C	A	A		47
				Vegetable	C	A	A		319
2	*	*	*	Durian/Mango	C	A	A	11.0	122
				Guava	C	A	-	3.1	432
				Banana	C	A	A	0.7	189
				Cashewnut	C	A	A		32
				Papaya	C	A	-		450
				Citrus	C	A	A		189
				Pineapple	C	A	A	0.5	432
				Coconut	A	-	A		79
				Oilpalm	C	A	A	0.9	346
				Cocoa	C	A	A	0.6	56
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>25</u>
				Coffee	C	A	A		16
				Tea	C	A	A		23
				Clove	C	A	A		6
Tabacco	C	A	A		162				
Sugarcane	C	A	A		360				
Pepper	C	A	A		53				
3	*	*	*	Maize	C	-	-		59
				Sorghum	C	-	A		68
				Ginger	C	A	-		270
				Groundnut	C	A	A		47
				Vegetable	C	A	A		319
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 NS044

Code Number : NS044 Name of Scheme : Kg. Birah
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Pump
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 17 Off : 15
 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	-		255
				Groundnut	C	A	A		44
				Vegetable	C	A	A		301
2	*	*	*	Durian/Mango	C	A	A	11.0	116
				Guava	C	A	-	3.1	408
				Banana	C	A	A	0.7	179
				Cashewnut	C	A	A		30
				Papaya	C	A	-		425
				Citrus	C	A	A		179
				Pineapple	C	A	A	0.5	408
				Coconut	A	-	A		74
				Oilpalm	C	A	A	0.9	326
				Cocoa	C	A	A	0.6	53
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>23</u>
				Coffee	C	A	A		15
				Tea	C	A	A		22
				Clove	C	A	A		5
Tabacco	C	A	A		153				
Sugarcane	C	A	A		340				
Pepper	C	A	A		50				
3	*	*	*	Malze	C	-	-		55
				Sorghum	C	-	A		64
				Ginger	C	A	-		255
				Groundnut	C	A	A		44
				Vegetable	C	A	A		301
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 NS045

Code Number : NS045 Name of Scheme : Anak Air Kata
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 32 Off : 16
 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	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
2	*	*	*	Durian/Mango	C	A	A	11.0	218
				Guava	C	A	-	3.1	768
				Banana	C	A	A	0.7	336
				Cashewnut	C	A	A		56
				Papaya	C	A	-		800
				Citrus	C	A	A		336
				Pineapple	C	A	-	0.5	768
				Coconut	A	-	A		140
				Oilpalm	C	A	A	0.9	614
				Cocoa	C	A	A	0.6	99
				<u>Rubber</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>1.1</u>	<u>44</u>
				Coffee	C	A	A		28
				Tea	C	A	A		42
				Clove	C	A	A		10
				Tabacco	C	A	A		288
Sugarcane	C	A	A		640				
Pepper	C	A	A		94				
3	*	*	*	Maize	C	-	-		104
				Sorghum	C	-	A		120
				Ginger	C	A	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
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 NS046

Code Number : NS046 Name of Scheme : Ulu Sungkak
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 23 Off : 0
 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	-		345
				Groundnut	C	A	A		60
				Vegetable	C	A	A		407
2	*	*	*	Durian/Mango	C	A	A	11.0	156
				Guava	C	A	-	3.1	552
				Banana	C	A	A	0.7	242
				Cashewnut	C	A	A		40
				Papaya	C	A	-		575
				Citrus	C	A	A		242
				Pineapple	C	A	A	0.5	552
				Coconut	A	-	A		101
				Oilpalm	C	A	A	0.9	442
				Cocoa	C	A	A	0.6	71
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>32</u>
				Coffee	C	A	A		20
				Tea	C	A	A		30
				Clove	C	A	A		7
Tabacco	C	A	A		207				
Sugarcane	C	A	A		460				
Pepper	C	A	A		68				
3	*	*	*	Maize	C	-	-		75
				Sorghum	C	-	A		86
				Ginger	C	A	-		345
				Groundnut	C	A	A		60
				Vegetable	C	A	A		407
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 NS047

Code Number : NS047 Name of Scheme : Sri Jemapoh
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 36 Off : 0
 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	-		540
				Groundnut	C	A	A		94
				Vegetable	C	A	A		637
2	*	*	*	Durian/Mango	C	A	A	11.0	245
				Guava	C	A	-	3.1	864
				Banana	C	A	A	0.7	378
				Cashewnut	C	A	A		63
				Papaya	C	A	-		900
				Citrus	C	A	A		378
				Pineapple	C	A	-	0.5	864
				Coconut	A	-	A		158
				Oilpalm	C	A	A	0.9	691
				Cocoa	C	A	A	0.6	112
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>42</u>
				Coffee	C	A	A		32
				Tea	C	A	A		47
				Clove	C	A	A		11
Tabacco	C	A	A		324				
Sugarcane	C	A	A		720				
Pepper	C	A	A		106				
3	*	*	*	Maize	C	-	-		117
				Sorghum	C	-	A		135
				Ginger	C	A	-		540
				Groundnut	C	A	A		94
				Vegetable	C	A	A		637
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 NS048

Code Number : NS048 Name of Scheme : Serting Ulu Batu 43
 State : N.Sembilan District : Jempol
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 31 Off : 24
 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	-		465
				Groundnut	C	A	A		81
				Vegetable	C	A	-		549
2	*	*	*	Durian/Mango	C	A	-	11.0	211
				Guava	C	A	-	3.1	744
				Banana	C	A	-	0.7	326
				Cashewnut	C	A	A		55
				Papaya	C	A	-		775
				Citrus	C	A	-		326
				Pineapple	C	A	-	0.5	744
				Coconut	A	-	A		136
				Oilpalm	C	A	A	0.9	595
				Cocoa	C	A	A	0.6	96
				<u>Rubber</u>	A	A	A	1.1	42
				Coffee	C	A	A		27
				Tea	C	A	A		40
				Clove	C	A	A		10
				Tabacco	C	A	A		279
Sugarcane	C	A	A		620				
Pepper	C	A	A		91				
3	*	*	*	Maize	C	-	-		101
				Sorghum	C	-	A		116
				Ginger	C	A	-		465
				Groundnut	C	A	A		81
				Vegetable	C	A	-		549
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 NS049

Code Number : NS049 Name of Scheme : Ulu Punggul
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 14 Off : 0
 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	-		210
				Groundnut	C	A	A		37
				Vegetable	C	A	A		248
2	*	*	*	Durian/Mango	C	A	A	11.0	95
				Guava	C	A	A	3.1	336
				Banana	C	A	A	0.7	147
				Cashewnut	C	A	A		25
				Papaya	C	A	-		350
				Citrus	C	A	A		147
				Pineapple	C	A	A	0.5	336
				Coconut	A	-	A		61
				Oilpalm	C	A	A	0.9	269
				Cocoa	C	A	A	0.6	43
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>19</u>
				Coffee	C	A	A		12
				Tea	C	A	A		18
				Clove	C	A	A		4
Tabacco	C	A	A		126				
Sugarcane	C	A	A		280				
Pepper	C	A	A		41				
3	*	*	*	Maize	C	-	-		46
				Sorghum	C	-	A		53
				Ginger	C	A	-		210
				Groundnut	C	A	A		37
				Vegetable	C	A	A		248
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 NS050

Code Number : NS050 Name of Scheme : Majau
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Soil series : 2Dt

Irrigable area (ha) Main : 24 Off : 0
 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	-		360
				Groundnut	C	A	A		63
				Vegetable	C	A	A		425
2	*	*	*	Durian/Mango	C	A	A	11.0	163
				Guava	C	A	-	3.1	576
				Banana	C	A	A	0.7	252
				Cashewnut	C	A	A		42
				Papaya	C	A	-		600
				Citrus	C	A	A		252
				Pineapple	C	A	A	0.5	576
				Coconut	A	-	A		105
				Oilpalm	C	A	A	0.9	461
				Cocoa	C	A	A	0.6	74
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>33</u>
				Coffee	C	A	A		21
				Tea	C	A	A		31
				Clove	C	A	A		7
Tabacco	C	A	A		216				
Sugarcane	C	A	A		480				
Pepper	C	A	A		71				
3	*	*	*	Maize	C	-	-		78
				Sorghum	C	-	A		90
				Ginger	C	A	-		360
				Groundnut	C	A	A		63
				Vegetable	C	A	A		425
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 NS051

Code Number : NS051 Name of Scheme : Betong
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Sufficient for double cropping
 Soil series : 2Dt

Irrigable area (ha) Main : 32 Off : 16
 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	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
2	*	*	*	Durian/Mango	C	A	A	11.0	218
				Guava	C	A	-	3.1	768
				Banana	C	A	A	0.7	336
				Cashewnut	C	A	A		56
				Papaya	C	A	-		800
				Citrus	C	A	A		336
				Pineapple	C	A	-	0.5	768
				Coconut	A	-	A		140
				Oilpalm	C	A	A	0.9	614
				Cocoa	C	A	A	0.6	99
				<u>Rubber</u>	A	A	A	<u>1.1</u>	<u>44</u>
				Coffee	C	A	A		28
				Tea	C	A	A		42
				Clove	C	A	A		10
Tabacco	C	A	A		288				
Sugarcane	C	A	A		640				
Pepper	C	A	A		94				
3	*	*	*	Maize	C	-	-		104
				Sorghum	C	-	A		120
				Ginger	C	A	-		480
				Groundnut	C	A	A		84
				Vegetable	C	A	A		566
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 NS052

Code Number : NS052 Name of Scheme : Merual Jerneh
 State : N.Sembilan District : Kuala Pilah
 Type of Scheme : Gravity
 Water source : Limited to single cropping
 Soil series : 2dt

Irrigable area (ha) Main : 16 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	240
				Groundnut	A	A	A	0.9	42
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>283</u>
2	*	*	*	Durian/Mango	C	A	A	11.0	109
				Guava	C	A	-	3.1	384
				Banana	C	A	A	0.7	168
				<u>Cashewnut</u>	A	A	A	<u>8.7</u>	<u>28</u>
				Papaya	B	A	-	0.6	400
				Citrus	B	A	A	2.9	168
				<u>Pineapple</u>	A	A	A	<u>9.5</u>	<u>384</u>
				Coconut	A	-	A		70
				Oilpalm	C	A	A	0.9	307
				Cocoa	C	A	A	0.6	50
				Rubber	B	A	A	0.6	22
				Sago	C	-	A		144
				Coffee	A	A	A	0.7	14
				<u>Tea</u>	A	A	A	<u>10.4</u>	<u>21</u>
				Clove	B	A	A	1.1	5
Tabacco	B	A	A	0.7	144				
<u>Sugarcane</u>	A	A	A	<u>3.3</u>	<u>320</u>				
<u>Pepper</u>	A	A	A	<u>16.4</u>	<u>47</u>				
3	*	*	*	Maize	A	-	-		52
				Sorghum	A	-	A		60
				Ginger	B	A	-	2.5	240
				Groundnut	A	A	A	0.9	42
				<u>Vegetable</u>	A	A	A	<u>13.8</u>	<u>283</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