

CONFIDENTIAL
MIRI-BINTULU PROJECT

WOSSAC: 25662
711.2
(911.14)

MIRI-BINTULU REGIONAL PLANNING STUDY

FOR

THE GOVERNMENT OF MALAYSIA

AND

THE STATE OF SARAWAK

PROGRESS REPORT

No. 6

APRIL 1973

MIRI-BINTULU REGIONAL PLANNING STUDY
FOR THE
GOVERNMENT OF MALAYSIA & THE STATE OF SARAWAK
PROGRESS REPORT NO. 6

C O N T E N T S

	<u>Page</u>
INTRODUCTION	1
PROJECT MANAGEMENT	
1. Staffing	2
2. Administration and Finance	2
3. Schedule of Work	2
4. Survey Maps and Reports	3
PROGRESS	
<u>SECTION A: NATURAL RESOURCE STUDIES</u>	
1. SOILS	4
1.1 Study of Soil Erosion	4
1.2 Sample Areas	4
1.3 Semi-Detailed Master Plan Area	5
2. AGRICULTURE AND LIVESTOCK	6
3. AGRICULTURAL ECONOMICS	6
4. FORESTRY	8
5. WATER RESOURCES	9
<u>SECTION B: POPULATION AND PRODUCTION</u>	
1. POPULATION AND LABOUR	10
2. GENERAL AND INDUSTRIAL ECONOMICS	10
<u>SECTION C: TRANSPORT AND COMMUNICATIONS</u>	11

SECTION D: SETTLEMENTS AND INSTITUTIONS

1. SETTLEMENTS AND INFRASTRUCTURE	12
2. SOCIOLOGICAL ASPECTS	12

APPENDICES

APPENDIX I WORKING PAPER INDEX	13
APPENDIX II Progress Chart	at cover

INTRODUCTION

This report covers the period from 1st February to the end of March 1973, a period which has been dominated by preparation of the Perspective Plan. However, as must inevitably happen, a considerable amount of more detailed work, than is presented in the Plan, has been undertaken, so that in all disciplines of the Consultant Team, work on Phase II of the Study has already started.

In the ensuing months it is intended that the Consultants should maintain a close liaison with the various Government Departments in drawing up development programmes which will reflect Governments wishes and reactions to the ideas and alternatives presented in the Perspective Plan.

A list of Working Papers completed or received for filing since the 31st January 1973 has been attached to this Progress Report.

PROJECT MANAGEMENT

1. Staffing - additional to Report No. 5.

	<u>Position and Name</u>	<u>Chargeable dates</u>
8.	F. S. Walker, Forest Inventory/ Utilisation	16.2.73-31.3.73
C3.	W. J. Payne, Livestock Specialist	to 4.2.73 and from 24.3.73 -

Mr. Dennis Chua, Assistant Executive Engineer was detached from the project on 13.3.73; Mr. Paul Yii replaced Mr. Hamzah bin Haji Drahman, of the SEDC within the period under review. Mr. Tuton Kaboy, of the Sarawak Museum returned to Kuching on 22.3.73. The Consultants record their appreciation of the services given by the Counterpart specialists during their time with the Project, and to the respective Departments for making their services available.

2. Administration and Finance

- (a) Supplies and services - satisfactory
- (b) The ninth and tenth statements of Account were submitted on the due dates.
- (c) The sixth deposit of local funds has been received.

3. Schedule of Work

The programme of work for the next reporting period is as set out in the progress chart at cover.

4. Survey Maps and Reports

Fair drawing work continues on the soil survey sample areas resources maps. Work on the soil survey maps for the sample areas will proceed as soon as the classification has been finalised. Preparation of the base maps for Areas B and C has run into technical difficulties with the base mapping.

Discussions were held early in February with the Directorate of National Mapping when an initial set of mapping and printing priorities was established verbally. Further discussions will be held in the near future on the technical aspects of map production with both the Land and Survey Department, Kuching and the Directorate of National Mapping. It is intended that a production programme will be established.

During March, work was concentrated on the production of the Perspective Plan. At present, a basic report format and a series of production priorities are in preparation for discussions covering all the reports due during the course, and at the end, of Phase II.

P R O G R E S S
SECTION A
NATURAL RESOURCE STUDIES

1. SOILS

Discussions concerning the Soil Classification System have been held with the Soil Survey Division, and a draft of a revised system has been commented upon. It is hoped that a final draft of the revised Soil Classification will be ready in time to be incorporated in the soil classification and mapping of the broad transect soil survey of the Semi-Detailed Master Plan Area. This classification will mainly cover North and Central Sarawak for which correlation has been carried out during recent discussions and field trips.

1.1 Study of Soil Erosion

Due to the long dry period experienced in this part of Sarawak no run off has been recorded. Maintenance of the study plots is being carried out when required and a rain gauge was installed near the plots at Bukit Peninjau.

1.2 Sample Areas

Mapping and Reporting

Draft interim maps and reports have been completed for Sample Areas A, B and C. However, the soil maps and soil classification will need to be modified when the revised Soil Classification is completed.

Draft Soil and Terrain Class Maps at 1:10 000 scale and area measurements of soil and terrain units have been completed for the S. Karabungan S. A. In total this Sample Area extends to 49 960 acres. The Terrain Class map is ready for fair drawing at 1:20 000 scale but in view of the revision of the Soil Classification fair drawing of the Soil Map will have to be postponed.

1.3 Semi-Detailed Master Plan Area (*Broad Transect Soil Survey*)

Rentis Cutting

During the period under review a total of 107 km of survey trace lines have been cut. Locations of these are shown on Figure 1. Also one helicopter landing zone was constructed at Map Reference PN795 738 (sheet 3/113/10) along the Sungai Similajau at the junction of rentis MBP14 and R13. This landing zone was used to survey rentis R11, 12, 13, 14, 15, 16 and 17 considerably speeding up the field work.

To date a total of ²¹⁸~~218~~ km of trace lines have been cut for the study of the Semi-Detailed Master Plan Area.

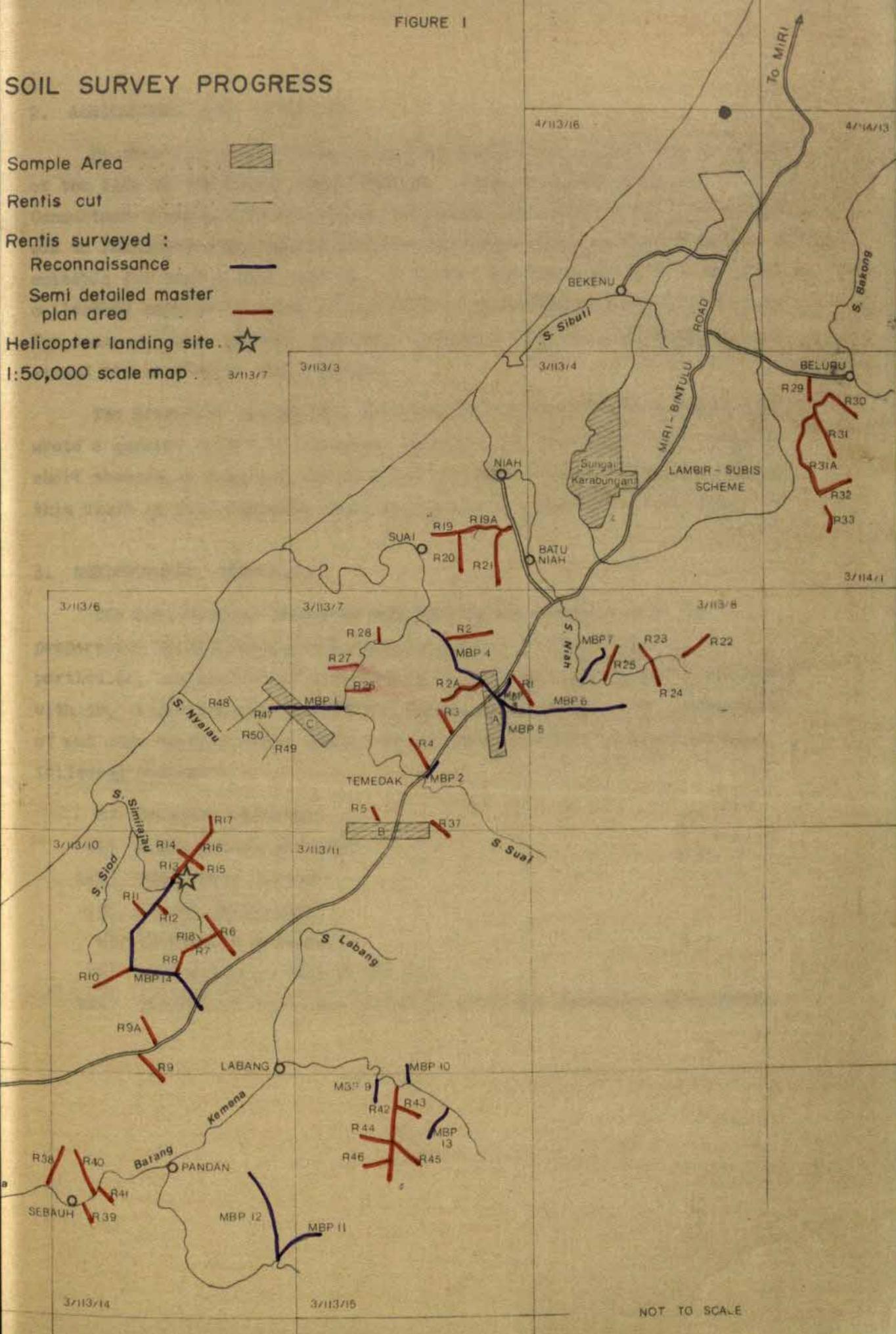
Soil Survey

During this period work was started on the soil survey of the Semi-Detailed Master Plan Area. A total of 186 km of rentis lines have been surveyed, with a total of 715 observation sites, including 33 soil pits. From the latter soil samples have been collected for chemical and mechanical analyses.

FIGURE 1

SOIL SURVEY PROGRESS

- Sample Area 
 - Rentis cut 
 - Rentis surveyed :
 - Reconnaissance 
 - Semi detailed master plan area 
 - Helicopter landing site 
- 1:50,000 scale map . 3/113/7



NOT TO SCALE

2. AGRICULTURE AND LIVESTOCK

Preparation of the Perspective Plan Report has occupied the majority of the time of the Senior Agriculturist. A day was spent with the Consultant Livestock Specialist in the Sungai Karabungan area. The object was to familiarise the Specialist with this area which is thought to be suitable for beef cattle rearing. A further day was spent in the field collecting samples of green pepper berries which after drying will be sent for tests of their peperin content. A two-day trip was undertaken to attend the meeting in Kuala Lumpur.

The Livestock Specialist, who remained in Sarawak only a short time, wrote a general report on Livestock prospects in the Study Area. After a short absence he rejoined the team for the rest of his assignment. During this visit he will complete detailed reports on livestock enterprises.

3. AGRICULTURAL ECONOMICS

The Agricultural Economist has been mainly occupied with the preparation of the Perspective Plan during this progress period, in particular, preparation of agricultural development alternatives consistent with the objectives set down in the guideline documents. The consequences of and achievements under these patterns were assessed in terms of the following aspects:-

- i) cropping patterns;
- ii) organisation patterns;
- iii) employment created;
- iv) income generated;
- v) investment required;
- vi) expenditure on direct inputs;
- vii) volumes of input and output involved for transport assessments.

The preliminary evaluation of the prospects for various agricultural activities was completed for the perspective planning exercise. All available information for each activity was tabulated for this study, covering the following aspects:-

- i) production knowledge;
- ii) production economics;
- iii) market potential.

Prior to preparing these tabulations the up-dating of production economics assessments referred to in the 5th Progress Report was completed for all activities likely to be considered for inclusion in development programmes for the Study Area.

The analysis of land tenure patterns in the titled areas of the Study Area was completed during February and tabulations prepared showing details of holding size and fragmentation. In all the survey has covered 767 holdings totalling 7 266 acres and the average size was found to be 9.6 acres typically located in three parcels each of about 3.1 acres.

The farm-type survey also mentioned in the 5th Progress Report was commenced in the Baram-Tinjar areas with the assistance of the Department of Agriculture. Twelve longhouses/kampongs were visited and 24 farmers interviewed before the end of March. Prior to this each District Agricultural Officer was visited and enumeration programme worked out for each area with them to ensure close coordination with their staff.

In addition other activities during the period have included the following:-

- a) visits to the CDC oil palm project in the Study Area and the Kabuloh Experiment Station and Farmer Training Centre for discussions with staff and field studies;

- b) discussions with the Chairman and Regional Manager of the SLDB of their future development programmes to ensure coordination with development proposals made by the Study Team;
- c) discussions with ICI Technical staff regarding fertiliser requirements and manufacturing prospects;
- d) discussions with Shell personnel regarding experience gained at their Sinaut Agricultural Project in Brunei;
- e) discussions with Mr. Letournau of the FAO Forest Industries Development Team on phasing and forest exploitation requirements in areas common to both studies, including road requirements and cleaning-up operations in already felled or licenced areas possible required for agricultural development;
- f) visits to the sago factory in Bintulu and the nearby Sebiew rubber scheme.

4. FORESTRY

The Consultant Forester returned during February and the diagnostic sampling survey in mixed dipterocarp remnant forest was begun and is now in full swing. This survey was agreed with the Conservator of Forests and is being conducted with the generous assistance of the Forest Silviculturist, Sibul, and members of his staff. It is expected that the field work will be completed in two to three months.

Discussions with the Conservator in Kuching resulted in renewed understanding of problems likely to arise from the suggestions given in the Zonation Plan for forestry development. Possible solutions and alternatives were discussed. Roads figure prominently in discussions with Mr. Letourneau both in Kuching and Miri. Agreement upon road construction policies was obtained and plans are beginning to emerge for road locations. Firm proposals will be possible once the areas for

agricultural development are finally selected. Timing and coordination between forestry exploitation and agricultural development are so vital that the first agricultural development area in unlogged forest land was tentatively agreed upon.

5. WATER RESOURCES

Recording of hydrological and climatological data continues.

SECTION B
POPULATION AND PRODUCTION

1. POPULATION AND LABOUR

Work on these aspects during the last two months has been confined to the Perspective Plan.

2. GENERAL AND INDUSTRIAL ECONOMICS

Preparation of the Perspective Plan Report has occupied most of the time of the General Economist. A few internal reports were prepared during the weeks before the final drafting of the economics of the estimated development in the Study Area. Since the draft was submitted for final editing, efforts to draw up guidelines for the economic studies during Phase II have been carried out.

Preliminary meetings to select industries for treatment on the prefeasibility study level have been completed.

The wood manufacturing industry and its prospects was the subject of preliminary discussions with representatives from the Forestry and Forest Industries Development Project of FAO. In addition contacts to all relevant industrial establishments in the wood manufacturing sector in the 3rd and 4th Divisions were established during a visit to Sibu 23 - 27 March.

SECTION C

TRANSPORT AND COMMUNICATIONS

The transport planner has in this period been occupied primarily with the preparation of the Perspective Plan. During the four days, 24th to 27th March, a trip was made to Sibul, Kapit and Kuching. In Sibul and Kapit discussions on forestry industry and transport development were held with representatives of the Forest Department and the private forestry industry. In Kuching the future transport development was discussed with the Kuching Port Authority, Assistant Director Sim Boon Kheng of the P.W.D. and Mr. Leo Letourneau from the FAO Forest Industries Development Team.

The detailed working programme for Phase II of the Study is now under preparation. The programme is based on the outlines presented in the Perspective Plan and on the terms of reference for the Phase II of the Study but alterations could be made following any Government comments to this Plan.

SECTION D
SETTLEMENTS AND INSTITUTIONS

1. SETTLEMENTS AND INFRASTRUCTURE

Apart from the work included in the Perspective Plan, a start has been made on the detailed planning required for Phase II of the Study. This work includes a more thorough study of the settlements outlined in the Perspective Plan including their supply of services and infrastructure. A field trip has been undertaken to look at a possible site for a new town in the Temedak area, and preliminary attempts have been made to picture future growth structures of Bintulu town. However, in order to be prepared for the arrival of the Physical Planner, due in May/June, the Counterpart Town Planner and one more Town Planner Assistant (Agreement Schedule D, clause 6(c)) will need to join the Consultant Team during April.

2. SOCIOLOGICAL ASPECTS

With the assistance of Mr. Tuton Kaboy, the Sociological Team, in addition to report writing for the Perspective Plan, completed surveys of one Kenyah and six Iban communities. These studies complete the Team's field surveys and the results are now being analysed.

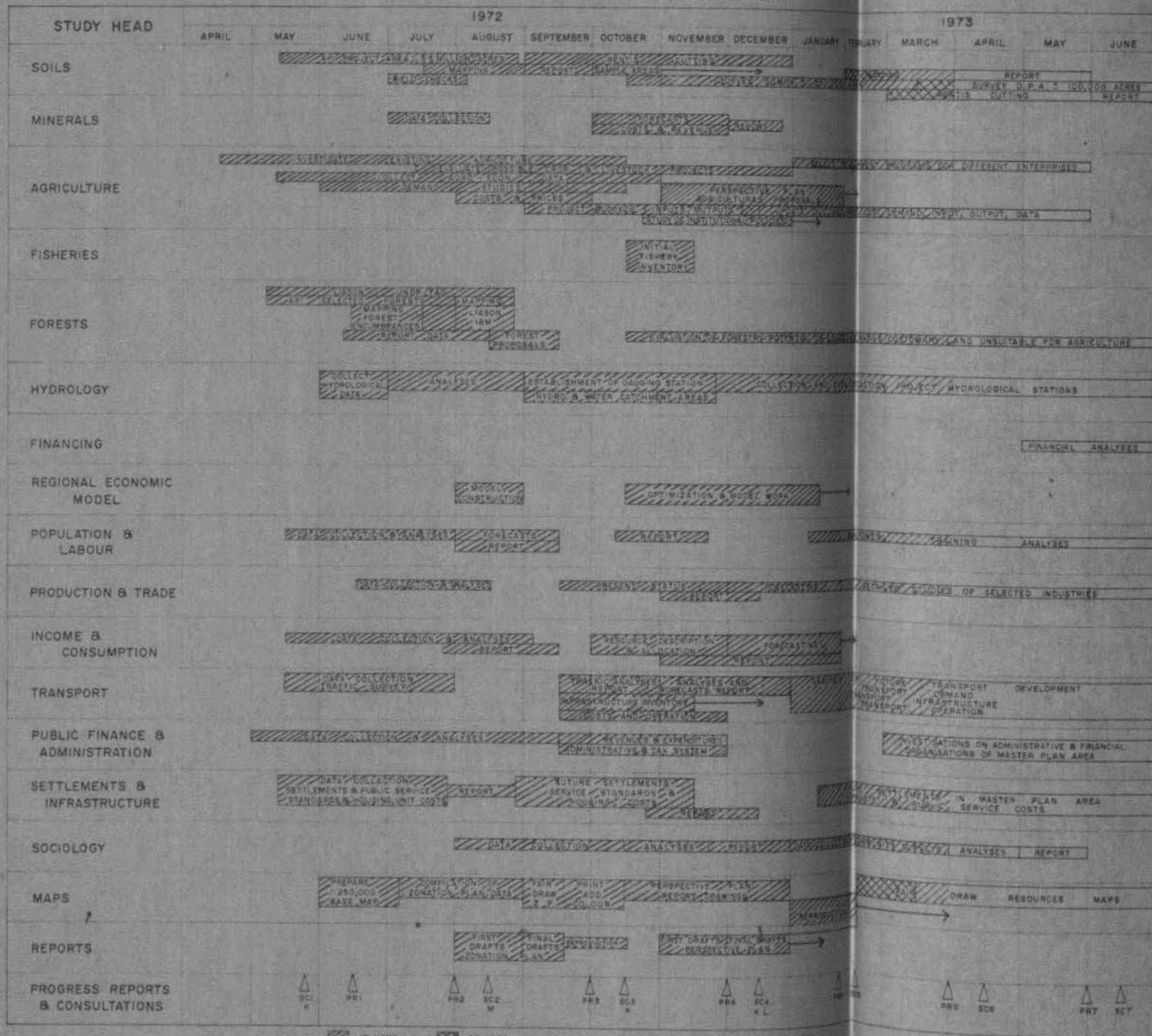
A final Working Programme is being prepared that will set out the work to be done during Phase II of the Study; included will be a final Summary Report embodying the principal findings and conclusions of the Team.

APPENDIX I
WORKING PAPER INDEX

No.	Date	Author	Subject	File Reference
37	26-1-73	M. IUUL	Wage Development in the Study Area and Assessment of the Local Wage as a Computation Factor	MB/3/ECON/15
38	7-2-73	M. IUUL	The Study Area and Economic Model	MB/3/ECON/17
39	17-10-72	S.JORGENSEN	Preliminary Views on Development Possibilities of the Study Area	MB/3/PLAN/19
40	30-3-73	S.JORGENSEN A.GOH C.P.CHUNG	Temedak New Town. A Preliminary Assessment of the Approximate Space, Service and Housing Requirements Including Costs of Building a New Town of 7 000 People	MB/3/PLAN/20
41	30-3-73	T.E.WETTELAND	Water Transport in, to and from the Study Area	MB/3/TRAN/WATER/11
42	30-3-73	T.E.WETTELAND	Sample Surveys of Road and Water Transport in the Study Area	MB/3/TRAN/LAND/12

PLAN OF OPERATIONS & MONTHLY PROGRESS CHART

MIRI - BINTULU REGIONAL PLANNING STUDY



IN HAND

DELAYED

PR - PROGRESS REPORT

SC - STEERING COMMITTEE