

## POLICY OF SURVEY IN PHASE II

In the site investigation of Phase II, mainly the detailed technical study will be carried out along the discussed routes in this report, based on the topographical map in a scale of 1/10,000 which were made by the aerial photograph survey.

And also the supplementary survey on development programme of agriculture and foresty will be added, together with the traffic survey on seasonal changes and the data collection for the estimation of benefit in determing the optimum route.

## 11-1 TECHNICAL STUDY

In order to determine the optimum route, following detailed studies will be performed.

### ll-1-1 Hydrology

- a) The method of hydraulic analysis of the river at the crossing point by bridges.
- b) The strage capacity of rivers.
- c) The record on the past floods and their area.
- d) Investigation of the small and middle scale rivers.

11-1-2 Soil and Geological Condition, Aggregate Material

- a) The supplementary CBR test on the subgrade material of the optimum route.
- b) The geotechnical survey of the foundation at the bridging site (the standard penetration test).
- c) Investigation of the access road and burried
- potential of limestone quarries, site.
- d) Investigation of the access road and burried potential of gravel quarries to be developed, and tests for the aggregate.

11-1

# 11-1-3 Construction Cost

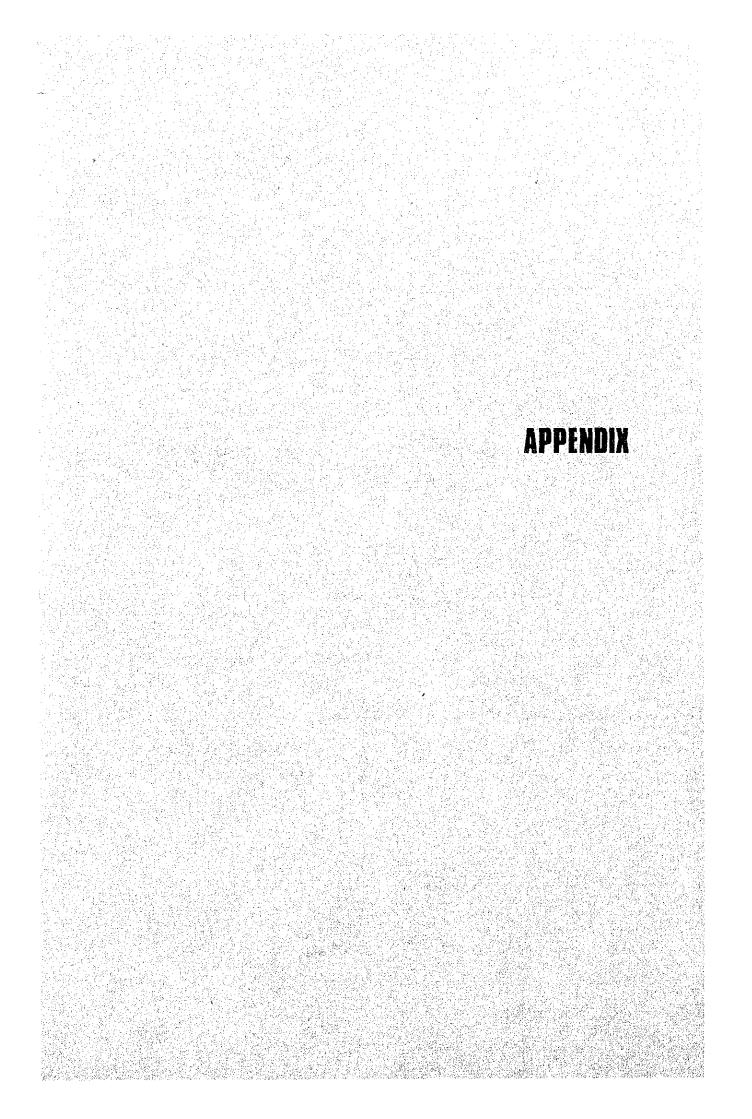
- a) The kinds of construction material in the
  - market and the taxes rate for their marcket price.
- b) Economic life, costs for major repairs and overhaul.
- 11-1-4 Construction Method
  - a) Equipment and plants of the P.W.D, equipment lease companies (in Singapore) and the size, capacity and technical experience of local contractors.
  - b) Construction schedule, administration and method of projects of similar nature.

# 11-2 ECONOMIC AND TRAFFIC SURVEY

In order to determine the optimum route, the supplementary investigations will be carried out on following points.

- a) Agricultural development potentials
- b) Agricultural poroducts
- c) Improvement programme of and its possibility of points along the route including first Long Lama
- d) Farmer's economy
- e) Potential of tourism development of Mulu National Park
- f) Investigation for the accuracy improvement of the transportation cost data.
- g) Supplemental reviews on the development potential of Foresty and its industrialization
- h) Performance of case studies on the changes which took place in the area by the road construction, where had been no roads.
  (on the road, Miri-Bintulu, Simmangang -Sibu and, etc.)

Based on the results of Phase II investigation, the preliminary designs and economic analysis will be prepared, then the overall evaluations and recommendations of the project will be provided in the Final Report.



| Jone provide the provided the provided to provided to provided to the provided to the provided to the provi   | Appendix                             | Table A-L-L |                | SARAW    | ARAWAK GROSS |            | T.S.HWO       | NA DT    | TODAC            | AND P      | DOMESTIC PRODUCT AND PER CAPITA | TA GDP       | 9/6T-/96T        | 2/6  |
|---|--------------------------------------|-------------|----------------|----------|--------------|------------|---------------|----------|------------------|------------|---------------------------------|--------------|------------------|------|
| Science         1367         1368         1360         1371         1377         1373         1367-1375         6770         6773         77           Articulture, Forestry and<br>Section         207         365         343         319         222         223         377         -         355         200         6.71         100           Articulture, Forestry, Togenty, and<br>Section         207         343         319         222         225         327         -         355         200         6.71         100           Articulture, Forestry, Togendy         303         319         210         233         221         266         239         294         -         77         73         53         57         77         73         53         57         77         74         74         77         73         73         73         73         73         73         73         73         73         73         73         73         73         73         73         73         73         73         74         74         74         74         74         74         74         74         74         74         74         74         74         74         74  |                                      |             |                |          | 1            | 970 Prices |               |          |                  |            | Ave                             | age Annual C | irowth Rate (9   | 6)   |
| Applications, Foreery and<br>applications, Foreery and<br>5, granding<br>(sectory)one frame         267         313         222         232         337         -         355         20         6.7         10           5, applications/<br>(sectory/one frame         5, fabry<br>(sector)         1   | Sector                               | 1961        | 1968           | 1969     | 1970         | 1971       | 1972          | 1973     | 1974             | 1975       | 1967-1975                       | 67-70        | 67-73            | 70-2 |
| a) agriculture/linear control in the control of th   | Agriculture, Forestry and<br>Fishery | 267         | 305            | 343      | 319          | 292        | 282           | 327      | ľ                | 355        | 20                              | 6.7          | 1.0              | 3.1  |
| Otherstryllogenig       113         0. fatersy       0. fatersy       13         Manufacturing       69       73       77       18         Manufacturing       69       73       77       73       53   | a) agriculture/livestock             |             |                |          | 168          |            |               |          |                  |            |                                 |              |                  |      |
| O fisherst<br>Manuffichtung<br>Manuffichtung<br>Building and Goarruction<br>191 2.12 2.12 2.6 2.79 2.94 - 2.0 3.3 1.35 1.43<br>Commerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce<br>Dommerce | b). forestry/logging                 |             |                |          | 133          |            |               |          |                  |            |                                 |              |                  |      |
| Manufacturing<br>and manufacturing         68         73         71         74         66         62         53         57         74           Number         191         210         233         24         40         11         12         11         12         12         120         120         121         120         121         121         121         1   | c) fishery                           |             |                |          | 18           |            |               |          |                  |            |                                 |              |                  |      |
| Building and Construction         43         44         41         45         49         51         55         5         5         5         73<   | Manufacturing                        | 69          | 73             | 11       | 11           | . 99       | 62            | 50       | i- I-            | 92         | -0.1                            | 3.9          | - 5.0            | 2.6  |
| Commerce         Dimension         191         210         233         232         236         279         32         37         73         37         73         37         73         35         135         13           b) whole saper/(communication         97         103         17         123         135         13         14         17         128         53  | Building and Construction            |             | 44             | 41       | 45           | 64         | 51            | 55       | 4                | 68         | 5.9                             | 0.7          | 44               | 8.0  |
| a) transport/communication       37       42       30       31       63       72       78       -       57       73       -33       53       75       70       75       75       70       75       75       70  | Commerce                             |             | 210            | 233      | 222          | 256        | 279           | 294      | <br>             | 270        | 5.2                             | 5.7          | 7.2              | 3.8  |
| 0         whole subjectail trade         90         103         117         125         126         135         143         14         17         13         55         113         55         55         56         84         75           0         ownership of dwellings         53         53         53         53         55         50         84         90         0         9         0         0         75         50         84         55         50         84         55         50         84         56         10         11         11         145         17         18         57         0.0         87         1         1         16         50         10         11         145         12         14         15         2         20         11         13         14         17         16         40         1         16         10         17         16         10         17         12         11         115         12         11         115         12         11         11         11         11         11         11         11         11         11         11         11         11         11         11         1   | a) transport/communicati             |             | 42             | 50       | 31           | 63         | 72            | 78       | t<br>T           | 57         | 7.3                             | -3.5         | 13.5             | 10.1 |
| c) banking/insurance       11       12       13       14       17       18       -       17       6.5       6.0       8.4         c) ownerstrip of dwellings       5.3       5.5       5.3       5.5       5.3       5.5       5.3       5.5       5.3       5.5       5.5       5.3       5.5       5.3       5.5       5.3       5.5       5.3       5.5       5.3  | b) whole sale/retail trade           | 06          | 103            | 117      | 125          | 126        | 135           | 143      | 1                | 138        | 5.6                             | 11.5         | 7.5              | 2.5  |
| (a) ownersting of divellings       53       53       53       53       55       55       5       5       5       40       0         Services       -       140       141       145       127       150       170       176       -       210       5.3       -2.6       40       1         abeline administration/       44       45       45       45       46       62       62       63       5.7       0.7       62         b) electricity/water       9       9       10       12       12       14       15       -       22       11.6       102       9.7         y envices       87       90       70       92       94       90       -       125       44.3       125       14.4       11.2       11.2       11.2       11.2       11.4       11.5       7.1       14.4       11.2       31         Sub-rotal       710       712       780       813       844       902       -       157       7.1       14.4       112.8       31         Admini and Quarying       712       780       813       1053       152       -       157       771       14.4       11   | c) banking/insurance                 |             | 12             | 13       | 13           | 14         | 17            | 18       | i                | 17         | 6.5                             | 6.0          | 84               | 6.0  |
| Services       140       141       145       127       150       170       176       -       210       53       -2.6       4.0       1         aberices       9       9       10       12       12       14       15       -       63       57       0.7       6.2         b) electricity/water       9       9       10       12       12       14       15       -       22       11.6       10.2       9.7       1         b) electricity/water       9       9       70       92       94       99       -       123       1  | d) ownership of dwellings            |             | 53             | 53       | 53           | 53         | 55            | 55       |                  | 58         | 1.1                             | 0.0          | 0.7              | 1.5  |
| a) public administration/       44       45       45       45       45       45       45       45       62       62       6       63       5.7       0.7       6.3         b) electricity/water       9       9       10       12       12       14       15       -       22       11.6       102       9.7       1         clectricity/water       9       9       10       12       12       14       15       -       22       11.6       10       20       1       1         Sub-total       710       773       839       790       813       844       902       -       157       77.1       144.8       112.8       3         Sub-total       7112       780       855       820       921       153       157       1       177       144.8       112.8       3         Reindication (Mdd-yaar       712       780       855       820       921       105.3382       1053.3300       1       1177       1,152       6.5       5.3       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5       6.5  | Services                             |             | 141            | 145      | 127          | 150        | 170           | 176      |                  | 210        | 5.3                             | - 2.6        | 4.0              | 10.0 |
| b) electricity/water 9 9 10 12 12 14 15 - 22 116 102 9.7 1<br>c) services 87 - 87 90 70 92 94 99 - 125 4.3 -6.0 20 1<br>Sub-rotal 710 773 839 790 813 844 902 - 995 3.6 4.1 3.1<br>Mining and Quarrying 2 7 16 30 114 155 152 - 157 77.1 144.8 112.8 3<br>Canad Total 712 780 855 820 927 999 1,054 1,177 1,152 6.5 5.3 6.5<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,102,956 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,022,556 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,022,556 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,022,556 2.6<br>Population (Mid-Year 901,663 923,552 944,029 967,274 994,535 1,022,382 1,063,300 - 1,024 3.3<br>Annual Rate of Growth 5 and 7 2 1,0 4 8 14 - 2.6<br>Source State Plantine Unit. Sarawak  |                                      | 44          | 45             | 45       | 45           | 46         | 62            | 62       | -<br>-<br>-<br>- | 63         | 5.7                             | 0.7          | 6.2              | 7.8  |
| c) services       87       87       90       70       92       94       99       -       125       4.3       -6.0       20       1         Sub-total       710       773       839       790       813       844       902       -       995       3.6       4.1       3.1         Sub-total       710       712       780       855       820       921       152       -       157       77.1       144.8       112.8       3         Grand Total       712       780       855       820       921       999       1,054       1,177       1,152       6.5       5.3       6.5         Population (Mid-year       Estimates)       901,663       923,592       944,029       967,274       994,535       1,022,382       1,063,300       -       1,102,956       2.6       5.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.5       5.5       5.3   | defence<br>h) electricity/water      | 6           | •              | 10       | 2            | 2          | 14            | 5        | 1                | 22         | 11.6                            | 10.2         | 9.7              | 13.3 |
| 710     773     839     790     813     844     902      995     3.6     4.1     3.1       Duarrying     2     7     16     30     114     155     -     157     77.1     144.8     112.8     3       Midvear     712     780     855     820     927     999     1,054     1,177     1,152     6.5     5.3     6.5       Midvear     55     820     927     999     1,063,300     -     1,102,956     2.6     5.3     6.5       DP (MS)     790     845     902     -     1,044     3.3     5.3     6.5       Of Growth     9.6     0.6     7.8     7.8     5.5     -     4.5       Source     5tate Planmine Unit. Strawak     7.0     7.2     1.9     4.8     1.4     -     2.6  | c) services                          | 87          | 87             | 6        | 10           | 92         | 94            | 66       | 14               | 125        | 4.3                             | - 6.0        | 2.0              | 10.8 |
| 710       773       839       790       813       844       902       -       995       3.6       4.1       3.1         Duarrying       2       7       16       30       114       155       157       77.1       144.8       112.8       3         Mid Year       712       780       855       820       927       999       1,054       1,177       1,152       6.5       5.3       6.5       7.1       9.4       9.5       9.7       9.1       -       1,004       3.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       5.3       6.5       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.4       9.4   |                                      |             |                |          |              |            |               |          |                  |            |                                 |              |                  | -    |
| Duarrying     2     7     16     30     114     155     157     77.1     144.8     112.8     3       Mid-year     712     780     855     820     927     999     1,054     1,177     1,152     6.5     5.3     6.5       Mid-year     901,663     923,592     944,029     967,274     994,535     1,002,382     1,063,300     -     1,102,956     2.6       Stimates)     901,663     923     994,535     1,022,382     1,063,300     -     1,102,956     2.6       Stimates)     901,663     923     997     991     -     1,044     3.3       of Growth     9.6     7.8     7.8     7.8     5.5     -     4.5       of Growth     9.6     0.6     7.8     7.8     5.5     -     4.5       Source:     State Planning Unit: Sarawk     7.0     7.2     -1.9     4.8     1.4     -     2.6   | Sub-total                            | 710         | 773            | 839      | 790          | 813        | 844           | 502      | 1                | 995        | 3.6                             | 4.1          | 3.1              | 4.9  |
| 712     780     855     820     927     999     1,054     1,177     1,152     6.5     5.3     6.5       Mid-year<br>Estimates)     901,663     923,592     944,029     967,274     994,535     1,023,382     1,063,300     -     1,102,956     2.6       DP (MS)     790     845     906     889     932     977     991     -     1,044     3.3       of Growth     9.6     0.6     7.8     7.8     5.5     -     4.5       a GDP (%)     7.0     7.2     4.8     1.4     -     2.6       Source-     State Planmine Unit, Sarawak   | Mining and Quarrying                 | 2           | 7              | - 16 ~   | 30           | 114        | 155           | 152      | 1                | 157        | 1.77                            | 144.8        | 112.8            | 31.0 |
| Mid-year       901,663       923,592       944,029       967,274       994,535       1,022,382       1,063,300       -       1,102,956         Estimates)       790       845       906       889       932       977       991       -       -       1,044         OF Growth       9.6       0.6       7.8       7.8       5.5       -       4.5         of Growth       9.6       9.6       0.6       7.8       7.8       5.5       -       4.5         Source       State Planning Unit. Sarawk       7.0       7.2       1.9       4.8       1.4       -       2.6  | Grand Total                          | 712         | 780            | 855      | 820          | 927        | 666           | 1,054    | 1,177            | 1,152      | 6.5                             | 5.3          | 6.5              | 7.2  |
| JDP (MS)     790     845     906     889     932     977     991      1,044       of Growth     9.6     9.6     0.6     7.8     7.8     5.5     4.5       a GDP (%)     7.0     7.2     1.9     4.8     1.4     -     2.6       Source     State Planning Unit, Sarawak   | Population (Mid-year<br>Estimat      | es) 901,663 | 923,592 94     | 4,029 96 |              |            |               | ,063,300 | -                | ,102,956   | 2.6                             |              |                  |      |
| of Growth<br>9.6 9.6 0.6 7.8 7.8 5.5 -<br>2.6DP (%) 7.0 7.2 - 1.9 4.8 4.8 1.4 -<br>Source State Planning Unit. Sarawak  | Per. Capita GDP (MS)                 | 790         | 845            | 906      | 889          | 932        | L16           | 166      | -<br>- 1-<br>> • | 1,044      | 3.3                             |              |                  | •    |
| a CDP (%) 7.8 7.8 7.8 5.5 -<br>2 CDP (%) 7.0 7.2 1.9 4.8 4.8 1.4 -<br>8 Source State Planning Unit. Sarawak   | Annual Rate of Growth                |             |                |          |              |            |               |          |                  | n<br>Maria |                                 |              | 194 <u>1</u><br> | ;    |
| Per Capitar GDP (%) 7.0 7.2 1.9 4.8 4.8 1.4 -<br>Sources State Planning Unit, Sarawak   | a) GDP (%)                           | 5           |                |          |              |            | anti<br>Quin  | 1        | 4.5              |            |                                 |              |                  |      |
| State Planning Unit. Sars   | b) Per Capita GDP (%)                |             |                |          | с.<br>95     |            |               |          | 2.6              |            |                                 |              |                  |      |
| State Planning Unit. Sara   |                                      |             |                |          |              |            |               |          |                  |            |                                 |              |                  |      |
|   |                                      | State Plan  | nins IInit. S: | trawak   |              | -<br>      | n<br>N<br>Nga |          |                  |            |                                 |              |                  | ۰.   |

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State Planning Unit, Sarawak

|              |           | internationalista<br>Alternationalista<br>Alternationalista<br>Alternationalista<br>Alternationalista |          |             |           |
|--------------|-----------|---|----------|-------------|-----------|
| Appendix Tal | ole A-1-2 | EXPORTS   | OF MAJOR | COMMODITIES | , SARAWAK |
|              |           |   |          |             |           |

| - Co          | mmodity Section                      | Unit of<br>Measure-            |                     | Value      |                     | Value    |
|---------------|--------------------------------------|--------------------------------|---------------------|------------|---------------------|----------|
| , <del></del> | <u> </u>                             | ment                           | /Quantity           | (M\$000)   | Quantity            | (M\$000) |
| 0. Fo         | New York and the second second       | an de seta<br>A se se a seta a | 53,234              | 111,323    | 58,145              | 155,25   |
|               | White Pepper                         | (ton)                          | 9,644               | 39,041     | 7,363               | 42,49    |
|               | Black Pepper                         | (ton)                          | 20,229              | 61,854     | 19,432              |          |
|               | Sago Flour                           | (ton)                          | 22,506              | 5,305      | 29,717              | 8,31     |
|               | Prawns, Fresh and<br>Frozen          | (ton)                          | 855                 | 5,123      | 1,633               | 14,24    |
| 2. Cr         | ude Materials Ined                   | ible                           |                     | 161,779    |                     | 405,81   |
| (1)           | Sawlogs                              | (H.ton)                        | 696,989             | 63,729     | 3,470,109           | 254,20   |
| (2)           | Sawn Timber                          | (H.ton)                        | 170,823             | 62,184     | 231,589             | 88,75    |
| (3)           | Rubber                               | (ton)                          | 28,579              | 35,866     | 37,665              | 62,86    |
| 1             | neral Fuels                          |                                | 4,398,306           | 1,025,319  | 5,387,587           | 1,423,24 |
| (1)           | Petroleum, Crude a<br>Partly Refined | <sup>nd</sup> (ton)            | 3,963,204           | 917,292    | 4,995,242           | 1,310,08 |
| (2)           | Petroleum Products                   | (ton)                          | 435,102             | 108,027    | 392,345             | 113,15   |
|               | imal/Vegetable Oil<br>d Fats         | <b>S</b>                       | 8,007               | 8,293      | 16,538              | 24,64    |
|               | Coconut Oils, Crud<br>and Refined    | e (ton)                        | 3,717               | 4,128      | 2,198               | 3,97     |
| (2)           | Palm Oil                             | (ton)                          | 3,592               | 3,887      | 12,497              | 19,62    |
| (3)           | Palm Kernel                          | (ton)                          | 698                 | 278        | 1,843               | 1,04     |
| 6. Ma         | nufactured Goods                     |                                |                     | 33,157     |                     | 60,86    |
|               | Wooden Mouldings a<br>Moulded Board  | nd _                           |                     | 8,764      |                     | 16,18    |
| (2)           | Wooden Dowels                        | -                              |                     | 13,286     | ان<br>بر بر المراجع | 27,87    |
| (3)           | Chipwood                             |                                |                     | 8,588      |                     | 9,32     |
|               | Veneer Sheets:<br>max 1/5"thick      | 000<br>sq.ft.)                 | 544                 | 37         | n.a.                | n.a.     |
| (5)           | Plywood Plain; (<br>5mm              | 000<br>sq.ft.)                 | 16,211              | 2,482      | 2,901               | 7,48     |
| Total         | . of Major Exports                   | _                              |                     | 1,339,871  |                     | 2,070,91 |
| 0ther         | Exports                              |                                |                     | 47,524     |                     | 82,33    |
|               | TOTAL                                |                                |                     | 1,387,395  |                     | 2,153,24 |
| Sou           | urce: Preliminary                    | Figures                        | of External<br>AP-2 | Trade, Dep | ot. of Stati        | stics    |

| A          | ppendix Table A-1-3 IMPORT COMMODITY DIVISION   | AND SE<br>(M\$ m111                     |                |
|------------|---|---|----------------|
|            | Commodity Section/Division  | 1975                                    | 1977           |
| 0          | Live animals, other pets and animals for zoos   | 1.71                                    | 1.4            |
| 1          | Meat, edible offal and meat preparations  | 7.16                                    | 10.13          |
| 2.         | Daily produce and birds' eggs   | 19.71                                   | 23.41          |
| 3          | Fish and other marine animals, except mammals and   | 9.61                                    | 11.81          |
|            | preparations thereof  |   |                |
| 4<br>5     | Cereals and cereal preparations<br>Fruits and vegetables  | 67.14<br>13.27                          | 89.91<br>15.96 |
| 6          | Sugar, sugar preparations and honey   | 31.36                                   | 33.35          |
| 7          | Coffee, tea, cocoa, spices and manufactures thereof   | 4.91                                    | 7,12           |
| 8          | Feeding stuffs for animals, excluding unmilled cereals  |   | 32.32          |
| 9.         | Miscellaneous food preparations   | 6.18                                    | 8.70           |
| )*         | FOOD AND LIVE ANIMALS   | 182.65                                  | 234.15         |
|            | 그 같은 사람이 있는 것은 사람은 것을 가지 않는 것을 하는 것이 있는 것을 하는 것이 없다.  |   |                |
| 11         |   | 11.29                                   | 16.18          |
| L2         | Tobacco and tobacco manufactures  | 27.25                                   | 35.51          |
| L*         | BEVERAGES AND TOBACCO   | 38.54                                   | 51.69          |
| 21         | n an  | i den pritorio.<br>Note: Control        |                |
| 22         | Hides, skins and furskins, undressed<br>Oil-seeds, oil-nuts and oil kernels   | _<br>3.81                               | 3.98           |
| 23         |   |   | 문문 이 영문 등      |
| <b></b>    | rubber  | 0.04                                    | 0.09           |
| 24         | Wood  | 11.12                                   | 23.04          |
| 25         | Paper-making material   | 0.36                                    | 0.27           |
| 26         | Textile fibres and waste  | 0.45                                    | 0.68           |
| 27         | Crude fertilizers and minerals other than fuels and   | 4.99                                    | 5.50           |
|            | precious stones   |   |                |
| 28         | Matallic ores and concentrates  | 0.17                                    | 0.06           |
| 29         | Crude animal and vegetable materials, inedible  | 1.44                                    | 1.55           |
| 2*         | CRUDE MATERIALS, INEDIBLE, EXCEPT FUELS   | 22.38                                   | 35.17          |
| 32         | Coal, coke and related fuels  | 0.05                                    | 0.02           |
| 33         | Petroleum and petroleum products  | 140.69                                  | 123.72         |
| 34         | Gas   | 1.62                                    | 1.40           |
| 3*         | MINERAL FUELS, LUBRICANTS AND RELATED MATERIALS   | 142.41                                  | 125.14         |
| ¥1         | Animal oils and fats, unprocessed   | 0.48                                    | <u> </u>       |
| 42<br>42   | Vegetable oils and fats, unprocessed  | 1.89                                    | 0.40           |
| 43         | Animal and vegetable oils and fats, processed and   |   |                |
|            | waxes of animal or vegetable origin   | 0.03                                    | 0.04           |
| <b>*</b> * | ANIMAL AND VEGETABLE OILS AND FATS  | 2.40                                    | 2.52           |
| •          | 에는 동안에 가지 않는 것이 있는 것이 있는 것이 같은 것이 같아요. 이상 가지 않는 것이 있는 것이<br>같이 같이 같이 같이 같이 같이 같이 있는 것이 없다. 것이 있는 것이 있는 것이 있는 | در بر این اور<br>در این ورد این در در ا |                |
| 51         | Chemical elements and compounds   | 8.33                                    | 9.12           |
| 52         | Mineral tar and crude chemicals obtained from coal,   | 0.08                                    | 4.68           |
| 53         | petroleum and natural gas<br>Dyeing, tanning and colouring materials  | 6,20                                    | 8.79           |
| 54         | Medicinal and pharmaceutical products   | 8.62                                    | 13.26          |
| 55         |   |   |                |
| 8 . L      | polishing and cleaning preparations   | 12,48                                   | 20.22          |
| 56         | Fertilizers, manufactured   | 15.87                                   | 15.64          |
| 55<br>56   | Essential oils and perfume materials, toilet, polishing and cleaning preparations   | 12,48                                   | 20.2           |

|       |          |   | · .             |   |
|-------|----------|---|-----------------|---|
|       |          |   |                 |   |
|       |          |   |                 |   |
|       |          |   |                 |   |
|       |          |   |                 | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |
| :     |          |   |                 |   |
|       | · .      | $M\xi = m_{1} + 1 + 2  (accept + m_{1})$  | million         | <ul> <li>Bar Baran</li> </ul>   |
|       |          | Appendix Table A-1-3 (continued) (MS  | , mittaron'     | /   |
|       | •        | Commodity Section/Division  | 1975            | 1977  |
|       | 57       | Explosives  | 1.54            | 0.94  |
|       | 58       | Artificial plastic materials, regenerated cellulose,  |                 |   |
| ÷ .   | 50       | artificial resins and related materials   | 6.15            | 8.15  |
|       | 59       | Miscellaneous chemical materials and products   | 9.23            | 11.89   |
|       | 5*       | CHEMICALS AND PRODUCTS OF CHEMICALS INDUSTRIES  | 68.50           | 92.69   |
|       | 11       | Leather, leather manufactures not elsewhere specified,  |                 |   |
| •     | 61       | dressed furs and parts of footwear and saddlery of any  | 0.04            | 0.05  |
|       |          | material  |                 |   |
| ţ.    | 62       | Rubber manufactures not elsewhere specified   | 8.32            | 11.25   |
|       | 63       | Wood or cork manufactures, not elsewhere specified  | 2.01            | 2.91  |
| 1     | -        | or included   | Second and      | 8-16 - L.   |
|       |          | Paper, paperboard and manufactures thereof  | 9.25            | 12.47   |
|       | 65       | Textile yarn, fabrics and made-up articles related products, except clothing                                      | 21.64           | 23.50   |
|       | 66       | Non-metallic mineral manufactures, not elsewhere  | 28.12           | 00 O/   |
|       |          | specified or included   |                 | 28.94   |
|       | 67       | Iron and steel and alloys of iron except cerium alloys  | 47.04           | 48.02   |
|       | 68       | Non-ferrous metals  | 2.73            | 3.43  |
|       | 69       | Manufactures of metals  | 22.62<br>141.77 | 31.67<br>162.24   |
|       | 6*       | MANUFACTURED GOODS CLASSIFIED CHIEFLY BY MATERIALS  | 141+11          | 102.24  |
| . 1   | 71       | Machinery other than electric but not excluding   | 74.84           | 176.20  |
|       | i egen   | machinery driven by electric motors   |                 |   |
| •     | 72       | Electric machinery, apparatus and appliances  | 60.77           | 71.04   |
| ÷ .   | 73       | Transport equipment   | 41.48           | 85.39   |
|       | 7*       | MACHINERY AND TRANSPORT EQUIPMENT   | 177.09          | 332.63  |
|       | 81       | Sanitary, plumbing, heating and lighting fixtures   |                 |   |
|       | 01       | and fittings and blinds   | 2.42            | 2.74  |
|       | 82       | Furniture   | 2.53            | 2.82  |
|       | 83       | Travel goods, handbags and similar articles   | 1.16            | 1,80  |
| . 1   | 84       | Clothing  | 12.16           | 15.84   |
| .*    | 85<br>86 | Footwear<br>Professional, scientific and controlling instruments,   | 7.54            | 8.67  |
|       | 00       | optical and photographic goods, watches and clocks  | 5.73            | 8.00  |
|       | 89       | Miscellaneous manufactured articles   | 14.81           | 20.64   |
| ġ.    | 8*       | MISCELLANEOUS MANUFACTURED ARTICLES   | 49.95           | 60.51   |
| ÷.    |          | 이는 물질 같아요. 이는 것은 것은 것이 아니는 것이 아이들을 가지 않는 것이 가지 않는 것을 했다.<br>같은 말씀 수도 같아요. 이는 것은 것이 아니는 것이 같아요. 이는 것이 아이들을 것이 같아요. |                 |   |
| . 3   | 91       | Postal packages   | 15.23           | 14.64   |
|       | 93<br>04 | Special transactions<br>Live animals not commonly used for food   | 9.01<br>0.02    | 3.48<br>0.01  |
|       | 94<br>95 | Weapons except military   | 0.02            | 0.01  |
| ÷     | 96       | Unissued coins  | 0.94            | 1.69  |
|       | 97       | Gold  |                 | 0,99  |
| · . ' | 9*       | TRANSACTIONS AND COMMODITIES NOT ELSEWHERE SPECIFIED  | 25.22           | 20.83   |
| ·     | **       | φοφλτ. Οτ. ΤΜΟΟΡΦ   | 850 01 1        | 117 =4  |
| ÷.,   |          | TOTAL OF IMPORT   | 850.91 1        |   |

- -1. na (<del>1993), i</del> Tari

| Appendix Table A-1- | -4 DISTRIBUTION | OF POPULATION BY |
|---------------------|-----------------|------------------|
|                     |                 | .970, SARAWAK    |

|             | Urb     | an      | Rur     | cal     | Tot     | al      |
|-------------|---------|---------|---------|---------|---------|---------|
| Age-group   | Number  | (%)     | Number  | (%)     | Number  | (%)     |
| 0 - 4       | 21,890  | (14.5)  | 141,976 | (17.2)  | 163,866 | (16.8)  |
| 5 - 9       | 21,172  | (14.0)  | 143,733 | (17.4)  | 164,905 | (16.9)  |
| 10 - 14     | 20,190  | (13.3)  | 101,124 | (12.3)  | 121,314 | (12.4)  |
| 15 - 19     | 19,896  | (13.2)  | 79,849  | (9.7)   | 99,745  | (10.2)  |
| 20 - 24     | 14,851  | (9.8)   | 61,253  | (7.4)   | 76,104  | (7.8)   |
| 25 - 29     | 11,172  | (7.4)   | 52,966  | (6.4)   | 64,138  | (6.6)   |
| 30 - 34     | 9,023   | (6.0)   | 44,937  | (5.4)   | 53,960  | (5.5)   |
| 35 - 39     | 7,170   | (4.7)   | 41,440  | (5.0)   | 48,610  | (5.0)   |
| 40 - 44     | 6,001   | (4.0)   | 36,286  | (4.4)   | 42,287  | (4.3)   |
| 45 - 49     | 4,680   | (3.1)   | 30,987  | (3.8)   | 35,667  | (3.6)   |
| 50 - 54     | 4,248   | (2.8)   | 29,500  | (3.6)   | 33,748  | (3.5)   |
| 55 and Over | 10,844  | (7.2)   | 61,081  | (7.4)   | 71,925  | (7.4)   |
| Total       | 151,137 | (100.0) | 825,132 | (100.0) | 976,265 | (100.0) |

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|  | · · · · |         |       |            | Other |            |        | (%)   |
|--|---------|---------|-------|------------|-------|------------|--------|-------|
|  | Malay   | Melanau | Iban  | Land Dayak |       | as Chinese | Others | Total |
| Agriculture, Forestry and Fishery  | 21,9    | 26.4    | 61.0  | 48.6       | 55.7  | 11.2       | 10.2   | 34.4  |
| Mining and Quarrying   | 0.3     | 0.1     | 0.03  | 0.4        | 0.4   | 0.2        | 0.2    | 0.2   |
| Manufacturing  | 6.6     | 10.2    | 6.1   | 5.2        | 3.6   | 8.7        | 8.8    | 7.1   |
| <ul> <li>agricultural products re-<br/>quiring substantial processing</li> </ul> | 3.0     | 4.2     | 5.4   | 4.9        | 2.8   | 3.7        | 6.9    | 4.2   |
| - others   | 3.6     | 6.0     | 0.7   | 0.3        | 0.8   | 5.0        | 1.9    | 2.9   |
| Building and Construction  | 0.8     | 0.6     | 0.2   | 0.4        | 0.2   | 1.9        | 1.5    | 0.9   |
| Commerce   | 2.9     | 1.9     | 0.4   | 0.6        | 0.7   | 9.3        | 6.8    | 3.8   |
| - transport/storage/communi~<br>cation   | 1.5     | 0.5     | 0.1   | 0.2        | 0.2   | 2.1        | 2.2    | 1.0   |
| - others   | 1.4     | 1.4     | 0.3   | 0.4        | 0.5   | 7.2        | 4.7    | 2.8   |
| Services   | 11.9    | 4.0     | 2.4   | 4.6        | 3.0   | 8.2        | 21.9   | 6.4   |
| - electricity/gas/water/<br>sanitary services                                    | 0.5     | 0.2     | 0.1   | 0.1        | 0.1   | 0.2        | 0.8    | 0.2   |
| - others   | 11.4    | 3.8     | 2.3   | 4.5        | 2.9   | 8.0        | 21.1   | 6.2   |
| Industry not adequately described  | 3.5     | 2.5     | 3.0   | 7.5        | 3.8   | .4.5       | 4.2    | 4.0   |
| Total Experienced Labour Force   | 47.9    | 45.7    | 73.1  | 67.3       | 67.4  | 44.0       | 53.6   | 56.8  |
| Not working but looking for<br>first job   | 1.4     | 1.0     | 0.8   | 0.6        | 0.5   | 1.7        | 1.5    | 1.2   |
| Total Labour Force   | 49.3    | 46.7    | 73.9  | 67.9       | 67.9  | 45.7       | 55.1   | 58.0  |
| Not in Labour Force  | 50.7    | 53.3    | 26.1  | 32.1       | 32.1  | 54.3       | 44.9   | 42.0  |
| Grand Total  | 100.0   | 100.0   | 100.0 | 100.0      | 100.0 | 100.0      | 100.0  | 100.0 |

Appendix Table A-1-5 LABOUR FORCE DISTRIBUTION BY INDUSTRIAL SECTOR, 1970 SARAWAK

Appendix Table A-1-6 LABOUR FORCE DISTRIBUTION BY OCCUPATIONAL SECTOR, 1970 SARAWAK

|  | 2 14<br>14  |             | · · · · ·   |             |                     | and the second | eret<br>Alta er | (%)         |
|--|-------------|-------------|-------------|-------------|---------------------|----------------|-----------------|-------------|
|  | Malay       | Melanau     | Iban        | Land Dayak  | Other<br>Indigenous | Chinese        | Others          | Total       |
| Professional, Technical &<br>Related Workers   | 1.5         | 1.3         | 0.7         | 1.2         | 1.0                 | 2.8            | 10.8            | 1.7         |
| Administrative & Managerial<br>Workers   | 0.2         | 0.1         | 0.1         | 0.03        | 0.1                 | 0.7            | 1.1             | 0.3         |
| Clerical & Related Workers   | 2.2         | 0.9         | 0.4         | 0.6         | 0.5                 | 3.4            | 3.1             | 1.7         |
| Sales Workers  | 0.9         | 0.8         | 0.2         | 0.4         | 0.3                 | 6.0            | 3.7             | 2,2         |
| Service Workers  | 6.3         | 1.3         | 1.1         | 2.4         | 1.0                 | 3.0            | 6.8             | 2.8         |
| Agricultural, Animal Husbandry<br>& Forestry Workers, Fishermen<br>& Hunters<br>Production & Related Workers,<br>Transport Equipment Operators | 25.0<br>8.3 | 31.6<br>7.2 | 66.4<br>1.2 | 53.2<br>1.9 | 58.2<br>2.4         | 14.3<br>9.3    | 16.5<br>7.4     | 38.5<br>5.6 |
| & Labourers<br>Occupation not adequately<br>Described  | 3.5         | 2.5         | 3.0         | 7.5         | 3.9                 | 4.5            | 4.2             | 4.0         |
| Total Experienced Labour Force   | 47.9        | 45.7        | 73.1        | 67.2        | 67.4                | 44.0           | 53,6            | 56.8        |
| Not Working but looking for<br>first job   | 1.3         | 1.0         | 0.8         | 0.7         | 0.5                 | 1.7            | 1.5             | 1.2         |
| Total Labour Force   | 49.2        | 46.7        | 73.9        | 67.9        | 67.9                | 45.7           | 55.1            | 58.0        |
| Not In Labour Force  | 50.8        | 53.3        | 26.1        | 32.1        | 32.1                | 54.3           | 44.9            | 42.0        |
| Grand Total  | 100.0       | 100.0       | 100.0       | 100.0       | 100.0               | 100.0          | 100.0           | 100.0       |

|                 |         | Section |         | a sa ing pangang sa sa | : Tor     | ns/CF   |
|-----------------|---------|---------|---------|------------------------|-----------|---------|
| Timbers         | Kuching | Sibu    | Bintulu | Miri                   | Total     | (%)     |
| Belian          | 330     | 1,103   | 4,511   | 2,258                  | 8,202     | (0.3)   |
| Others, Class A | 4       | 1.06    | 20      | 14                     | 144       | (0.0)   |
| Ramin           | 162,170 | 75,655  | 51,497  | 90,694                 | 380,016   | (15.5)  |
| Class C         | 14,456  | 73,969  | 89,290  | 318,996                | 496,711   | (20.2)  |
| Class D         | 107,801 | 74,000  | 131,808 | 220,740                | 534,349   | (21.7)  |
| Alan            | 113,924 | 102,600 | 16,295  | 353,371                | 586,190   | (23.9)  |
| Others, Class E | 94,757  | 175,777 | 107,216 | 74,256                 | 452,006   | (18.4)  |
| Total           | 493,442 | 503,210 | 400,637 | 1,060,329              | 2,457,618 | (100.0) |
| (%)             | (20.1)  | (20.5)  | (16.3)  | (43.1)                 | (100.0)   |         |

Appendix Table A-1-7 PRODUCTION OF SAWLOGS, 1976

Appendix Table A-1-8 SAWMILL OPERATION IN SARAWAK, 1976 1/

|         | Nu                   | mber of m                   | 1118            |       | Average | Month | ly Labo | our Emplo  | yment | Timber (                  | Conversion                | Recovery<br>Rate |
|---------|----------------------|-----------------------------|-----------------|-------|---------|-------|---------|------------|-------|---------------------------|---------------------------|------------------|
| Section | Vertical<br>Bandmill | Korizon-<br>tel<br>Bandmill | Circular<br>Saw | Total | Chinese | Iban  | Malay   | Others     | Total | Input<br>(Hoppus<br>Tons) | Output<br>(Cubic<br>Tons) | *                |
| Kuching | 3                    | 17                          | 14              | 34    | 583     | 509   | 602     | <b>1</b> 2 | 1,766 | 207,455.77                | 98,519.47                 | 47.49            |
| Sibu    | 14                   | 15                          | 5               | 34    | 733     | 336   | 486     | 277        | 1,832 | 158,693.00                | 86,058.48                 | 54,23            |
| Bintulu | 11 <u>2/</u>         | 1                           | 11 <u>3/</u>    | 21    | 81      | 43    | 89      | 6          | 219   | 62,466.67                 | 24,621.18                 | 39.41            |
| tiri 👘  | <b>13</b>            | 2                           | 16              | 31    | 333     | 288   | 259     | 68         | 948   | 112,920.68                | 46,491.22                 | 41.17            |
| otal    | 39                   | 35                          | 46              | 120   | 1,730   | 1,176 | 1,436   | 423        | 4,765 | 541,536.12                | 255,690.35                | 47.22            |

Source: Annual Report of the Forest Department, 1976

- 1/ The input-output statistics of Sarawak Woodchip Co. Sdn. Bhd. (Factory) is not included in the above Table. The input was 228,449.5 metric tons and its output was 159,515.0 metric tons. The recovery rate was 70%.
- <u>2</u>/ Includes 3 Belian Sawmills
- 3/ Includes 8 Belian Sawmills

| ang sa |         |         |   |           |         | Tons/CF   |
|--|---------|---------|---|-----------|---------|-----------|
| Port of                                    | Sawn    | Timber  | Round                                     | Timber    | T       | otal      |
| <u>Clearance</u>                           | 1975    | 1976    | 1975                                      | 1976      | 1975    | 1976      |
| Kuching                                    | 274     | 357     | 34,821                                    | 71,860    | 35,095  | 72,217    |
| Sibu                                       | 6,166   | 1,268   | 3,351                                     | 20,629    | 9,517   | 21,897    |
| Tg. Mani                                   | 148,899 | 191,774 | 187,840                                   | 423,718   | 336,739 | 615,492   |
| Bintulu                                    | 1,263   | 1,002   | 99,871                                    | 237,828   | 101,134 | 238,830   |
| Miri                                       | 10,621  | 6,392   | 299,598                                   | 800,266   | 310,219 | 806,658   |
| Marudi                                     | 2,548   | 2,207   | an in |           | 2,548   | 2,207     |
| Limbang                                    | 344     | 414     | 39,784                                    | 47,854    | 40,128  | 48,268    |
| Lawas                                      | 569     | 72      | 10,612                                    | 15,575    | 11,181  | 15,647    |
| Sundar                                     | 139     | 0       | 21,112                                    | 20,862    | 21,251  | 20,862    |
| Total                                      | 170,823 | 203,486 | 696,989                                   | 1,638,592 | 867,812 | 1,842,078 |

Appendix Table A-1-9 EXPORT OF TIMBER BY PORT OF CLEARANCE

Appendix Table A-1-10 EXPORTS OF TIMBER

| Year | Ramin | Meranti | Other Non-<br>Conifer Wood | Conifer<br>Wood | Total<br>(000 Tons/CF) | Export Value<br>(M\$ million ) | Ramin | Meranti ( | Other Non-<br>Conifer Wood | Conifer<br>Wood | Total<br>(000 Tons/CF) | Export Valu<br>(M\$ million) |
|------|-------|---------|----------------------------|-----------------|------------------------|--------------------------------|-------|-----------|----------------------------|-----------------|------------------------|------------------------------|
| 1965 | 62.5  | 131.6   | 476.3                      | 4.2             | 672.6                  | 47.3                           | 170.3 | 10.3      | 10.7                       | 0.5             | 191.8                  | 35.2                         |
| 1966 | 100.3 | 303.6   | 667.0                      | 0.3             | 1,071.2                | 82.5                           | 142.3 | 3.4       | 10.9                       | 0.0             | 156.6                  | 26.3                         |
| 1967 | 89.0  | 480.2   | 673.2                      | 0.7             | 1,243.1                | 99.8                           | 176.3 | 4.9       | 13.1                       | 0.0             | 194.3                  | 36.2                         |
| 1968 | 87,5  | 563.2   | 1,004.5                    | 0.7             | 1,655.9                | 138.7                          | 198.7 | 4.6       | 16.3                       | 0.0             | 219.6                  | 42.4                         |
| 1969 | 41.0  | 743.9   | 911.2                      | 1.2             | 1,697.3                | 143.4                          | 199.6 | 4.1       | 11.4                       | 0.1             | 215.2                  | 43.2                         |
| 1970 | 18.4  | 661.0   | 1,053.2                    | 0.3             | 1,732.9                | 148.4                          | 207.1 | 4.0       | 11.0                       | 0.0             | 222.1                  | 49.8                         |
| 1971 | 1.3   | 573.6   | 836.9                      | 0.2             | 1,412.0                | 120.8                          | 184.0 | 4.1       | 11.0                       |                 | 199.1                  | 47.1                         |
| 1972 |       | 333.3   | 769.3                      | 4.8             | 1,107.4                | 83.5                           | 186.9 | 5.1       | 22.7                       | 0.0             | 214.7                  | 50.9                         |
| 1973 | 0.9   | 242.2   | 800.4                      | 6.4             | 1,049.9                | 123.9                          | 161.7 | 6.9       | 13.0                       | 0.0             | 181.6                  | 87.0                         |
| 1974 |       | 197.2   | 733.9                      | 3.4             | 934.5                  | 108.2                          | 128.2 | 5.2       | 18.0                       | 0.5             | 151.9                  | 57.7                         |
| 1975 | 0.3   | 210.1   | 485.9                      | 0.7             | 697.0                  | 63.7                           | 147.3 | 3.9       | 19,4                       | 0.3             | 170.9                  | 62.2                         |
| 1976 |       | 450.6   | 1,181.7                    | 6.3             | 1,638.6                | 242.1                          | 187.8 | 3.6       | 11.6                       | 0.5             | 203.5                  | 117.0                        |

АР-8

|                                | Saray   | vak     | 4th I   | )iv.    | 5th D       | iv.     |
|--------------------------------|---------|---------|---------|---------|-------------|---------|
| Race                           | Number  | (%)     | Number  | (%)     | Number      | (%)     |
| Malay                          | 182,709 | (18.7)  | 17,371  | (12.8)  | 12,713      | (34.6)  |
| Melanau                        | 53,234  | (5.5)   | 7,837   | (5.8)   | 66          | (0.2)   |
| Sea Dayak (Iban)               | 302,984 | (31.1)  | 47,544  | (35.0)  | 4,734       | (12.9)  |
| Land Dayak (Bidayuh)           | 83,276  | (8.5)   | 645     | (0.5)   | 90          | (0.2)   |
| Other Indigenous $\frac{1}{2}$ | 49,960  | (5.1)   | 27,144  | (20.0)  | 13,747      | (37.4)  |
| Chinese                        | 294,020 | (30.1)  | 34,230  | (25.1)  | 5,131       | (14.0)  |
| Others                         | 9,735   | (1,0)   | 1,147   | (0.8)   | a. ( a. 250 | (0.7)   |
| TOTAL                          | 975,918 | (100.0) | 135,918 | (100.0) | 36,731      | (100,0) |

Appendix Table A-2-1 POPULATION DISTRIBUTION BY RACE, 1970

Source; Sarawak Annual Statistical Bulletin, 1976

1/ Including Bisayas, Kedayans, Kayans, Kelabits, Dusun etc.

| Race                |        | <u>1b-dist.</u><br>(%) | , and the second se |         |                      | and the second se | <u>Limbang</u><br>Number |         |
|---------------------|--------|------------------------|--|---------|----------------------|---|--------------------------|---------|
| Malay               | 9,311  | (26.1)                 | 3,334  | (15.2)  | 2,255                | (5.7)   | 5,941                    | (30.0)  |
| Melanau             | 1,561  | (4.4)                  | 606  | (2.7)   | 135                  | (0.3)   | 47                       | (0.2)   |
| Sea Dayak(Iban)     | 2,722  | (7.6)                  | 10,554   | (48.0)  | 11,940               | (30.2)  | 4,551                    | (23.0)  |
| Land Dayak(Bidayuh) | ) 264  | (0.7)                  | 34   | (0.2)   | 43                   | (0.1)   | 55                       | (0.3)   |
| Other Indigenous    | 1,039  | (2.9)                  | 4,219  | (19.2)  | 19,628 <sup>-2</sup> | /(49.7)   | 5,982 <sup>1</sup>       | /(30.2) |
| Chinese             | 20,059 | (56.2)                 | 3,178  | (14.4)  | 5,361                | (13.6)  | 3,167                    | (16.0)  |
| Others              | 746    | (2.1)                  | 61   | (0.3)   | 146                  | (0.4)   | 64                       | (0.3)   |
| TOTAL               | 35,702 | (100.0)                | 21,986   | (100.0) | 39,508               | (100.0)   | 19,807                   | (100.0) |

Niah-Suai-Sibuti

Source; 1970 Census of Population and Housing, Dept. of Statistics <u>1</u>/ Including Bisayas (2,827), Kedayans (2,267), Murut (482) and Kelabit/Tabun (453).

2/ Including Kayan (6,936), Kenyah (6,587), Kelabit (2,003), Penan (2,221), etc.

| Appendix | Table | A-2-2 | KAMPONGS WITH THE POPULATION OF 500 AM | D      |
|----------|-------|-------|--|--------|
| T.T.     |       |       | MORE IN BARAM DISTRICT, 1977/1978      | njiro) |

|                    | Populat | ion    | 1/                  |
|--------------------|---------|--------|---------------------|
| Name of<br>Kampong | 1977    | · 1978 | - Race <sup>m</sup> |
| Lubok Nibong       | n,a.    | 1,290  | Ma/CH               |
| Sg. Selipin        | 533     | 600    | I/mixed             |
| Lg. Pilah          | 702     | 702    | KN                  |
| Lg. Miri           | 539     | 539    | KN                  |
| Lg. Laput          | 713     | 713    | KN                  |
| Lg. Bemang         | 944     | 1,044  | KN                  |
| Lg. Terawan        | 614     | 614    | Ку                  |
| Lg. Atip           | 624     | 624    | KN                  |
| Lg. Bedian         | 578     | 578    | Ку                  |
| Lg. Jee            | 587     | 587    | Ку                  |
| Lg. Moh            | 651     | 651    | Ку                  |

 $\underline{1}/$ 

Ma; Malay, CH; Chinese, KN; Kenlah, Ky; Kayan, I; Iban

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Appendix Table A-2-3 ESTIMATED FUTURE POPULATION BY DIVISION

| and the second second         |                      | n de Presid          | Population           |                      |                      | Annual | Growth R | h Rate (%) |  |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------|----------|------------|--|
| Division                      | 1977                 | 1982                 | 1987                 | 1992                 | 2002                 | 77-82  | 82-92    | :92-0      |  |
| First Div.                    | 430,670<br>(37.1)    | 501,959<br>(38.2)    | 581,561<br>(39.4)    | 673,113<br>(40.5)    | 890,233<br>(42.6)    | 3.11   | 2.98     | 2.8        |  |
| Second Div.                   | 157,758<br>(13.6)    | 174,044<br>(13.3)    | 190,834<br>(12.9)    | 209,022<br>(12.6)    | 247,564<br>(11.8)    | 1.98   | 1.85     | 1.7        |  |
| . Third Sixth<br>Seventh Div. | 359,713<br>(31.0)    | 391,446<br>(29.8)    | 423,558<br>(28.7)    | 457,810<br>(27.5)    | 528,024<br>(25.3)    | 1.71   | 1.58     | 1.4        |  |
| Fourth Div.                   | 169,276<br>(14.6)    | 197,774<br>(15.1)    | 229,694<br>(15.5)    | 266,500<br>(16.0)    | 354,177<br>(17.0)    | 3.16   | 3.03     | 2.8        |  |
| Fifth Div.                    | 42,507<br>( 3.7)     | 47,125<br>( 3.6)     | 51,925<br>( 3.5)     | 57,153<br>(3.4)      | 68,359<br>(3.3)      | 2.08   | 1.95     | 1.8        |  |
| TOTAL                         | 1,159,924<br>(100.0) | 1,312,348<br>(100.0) | 1,477,572<br>(100.0) | 1,663,598<br>(100.0) | 2,088,357<br>(100.0) | 2.50   | 2.40     | 2.3        |  |

| ppendix Table A |           | والمتحدين والمتحكين والمحاصر والمحاد المتحد المتحد المتحدي | فيتكشف فالاستخذار فيجدوا بمجمع والمحار والمتلا والمتلا | ورجعي وجري مجتمعا التكاكر فتتحر است | PRODUC              | TS BY |
|-----------------|-----------|--|--|-------------------------------------|---------------------|-------|
|                 | <u>P0</u> | RT IN TI   | IE STUD  | Y AREA                              |                     | Tons  |
|                 | Miı       | <u>:</u>   | Mar  | udi                                 | Limb                | ang   |
| Commodity       | 1976      | 1977   | 1976   | 1977                                | 1976                | 1977  |
| Rubber          | 664       | 1,023  | 718  | 531                                 | 552                 | 659   |
| White Pepper    | 999       | 1,122  | 102  | 53                                  | 3                   | 5     |
| Black Pepper    | 112       | 214  | 54   | 61                                  | 11                  | 53    |
| Sago Flour      | 2         | 2  |  |                                     | - <u>-</u> 1        | -     |
| Coconut Oils    | 1,042     | 767  | 18   | 1                                   | an di <u>-</u> a di | -     |
| Total           | 2,819     | 3,128  | 892  | 646                                 | 566                 | 717   |

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| Vi hnandiv | Table 5-7. | s' ni | NOT TO TO DO     | n# | AGRICULTURAL   | DOTENTIAL. | 1081        |
|------------|------------|-------|------------------|----|----------------|------------|-------------|
| <br>AD     | 10010 10-7 |       | DDD-1742 3 1 Mil | ~* | NOVI CONTRACTO | TU DOLLAR  | · · · · · · |

| Block                  | 1. LINEI PUTCH  | 2. KUALA TINJAR   |
|------------------------|---|---|
| Area<br>(Acre)         | 5,400. The area could possibly be<br>extended east into the Busing River<br>system.<br>Acreage under primary forest: 4,300<br>Acreage under title: nil.   | 9,700. The area could be extended<br>down the Baram River slightly.<br>Accesse under petmary forest: 5,000.<br>Some is possible old secondary forest:<br>Accesse under title: 315   |
| Bominant<br>Topography | Low to moderately high and sizep ridges<br>and hills of Terrain Classes 4 stid 6.<br>Slope facets of Terrain Class 8 are<br>componiand small aceas of Terrain Class<br>1 probably occur in places.  | of Terrain Class 1.   |
| Main Soile             | The Hygiau Panily of solls is dominant<br>in hill areas, with subordinate Merig<br>Family actis in places. Hiver hoves<br>contain Semilajau s lis and river<br>basins Halang solls.   | The Bilat Family of soils is dominant<br>except on the leves of pain rivers and<br>ox-bow levis where Kuinan soils occur.<br>Patches of Anderson Family peat, both<br>at the surface and beneath the clay<br>soils may be present in the lasong area  |
| Present<br>Cultivation | Mainly hill rice, some swamp rice and<br>sendiing subber close to rivers."  | Hainly swamp and hill rice; scattered<br>fruit and vegetable gardens near<br>villages; small patches of seedling<br>rubber close to rivers.   |
| Halo<br>Hazards        | Low soil fertility and strong risk of<br>gully erosion with Nyslaw soils on<br>alopes exceeding 15-20, areas which<br>should be avoided where possible.   | Periodic flooding and the presence of deep pear.  |
| Land<br>Sultability    | Nony shall bill areas are too interp for<br>gattculture, large areas area marginal:<br>allowial welleys and low bills are the<br>mole sufferble for agriculture. A<br>semi-detailed soil survey would be<br>mecessary to delist to small areas<br>of atcep lend with shallow coils. | Nost is suitable for the cultivation of<br>menialy irrigated crops the patches of<br>jeep peat, are unuitable for cultiva-<br>tion and are probably most common in<br>the Tasong area. A thorough apprecia-<br>tion of the flooding, drainage and<br>irrigation problems is required before<br>development. |

#### Appendix Table A-2-5 DESCRIPTION OF AGRICULTURAL PORENTIAL AREA

|                        |   |  | <u>, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199</u>  |
|------------------------|---|--|--|
| Block                  | 3. KUALA TU TOH   | 4. KUALA PEKING  | 5. IKANG   |
| Area<br>(Acre)         | 6,300. The area could be extended<br>considerably up the Titch River,<br>Acreage under primary foresi:<br>100. Some is possible old second-<br>ary forest.<br>Acreage under title: 279.                         | extension<br>Acrease under primary forest:   | 7,500. The side could be extended<br>up the Baram River considerably.<br>Acreage under primary forest:<br>200. Samll areas are possibly old<br>secondary forest.<br>Acreage under title: nil.  |
| Dominant<br>Topography | Flat to gently sloping alluvial<br>land of Terrain Class 1.   | Flat to gently sloping alluvial<br>land of Terrain Class 1.  | Flat to undulating alluvial hand<br>of Terrain Class 1.  |
| Nain Soils             | Bijat and Malang Family solls are<br>dominant with possibly small<br>patches of sufface pear, and<br>andy leves solls of the Semilajau<br>Family.   | Fijat family solls are dominant<br>with the possibility of shmilow<br>surface peat and deep peat beneath<br>shallow clay south of the Peking<br>River.   | Bijst and Malaty family solls are<br>dominant, the latter on river bail<br>and close to stream. Patches of<br>Anderson Family peat solls ray<br>occur, particulty close to sway<br>argins.   |
| Present<br>Cultivation | Mainly swamp and hill rice;<br>scattered fruit and vegetable<br>gardens near villages; s few small<br>seedling rubber gerdens close to<br>rivers.   | Mainly swamp rice and small<br>scattered seedling rubber gardens<br>close to rivers.   | Mainly swamp rice with vegetable,<br>fruit and rubber gardens sojacent<br>to rivers.   |
| Main Hazards           | Periodic flooding.  | Periodic flooding.   | Periodic flooding.   |
| Lard<br>Suitability    | Most is suitable for cultivation,<br>partly of irrighted coops, partly<br>for dry land crops. A through<br>appreciation of the flooding,<br>drainage and firtgation problems<br>is required before development. | Nost land is multiple for the<br>cultivation of irrigated comps.<br>Areas south of the Psking River<br>may be marginal or unsuitable due<br>to the presence of peat. A<br>through appretation of the<br>flooding, drainage and 'rrigation<br>problems is required before<br>developeent. | Nose land is estrable of cultiva-<br>tion, partly of irrigated cucros.<br>partly of dry land crops. There<br>are possibly patches of peat<br>unsuitable for cultivation. A<br>through appreciation of the flood<br>ing, draitonge and frigation<br>problems is required before<br>development. |

#### Appendix Table A-2-5 DESCRIPTION OF ACRICULTURAL POTENTIAL AREA

| Block                  | 6, TERU   | 7. PEKING  | 8. BAIN-LAMA   |
|------------------------|---|--|--|
| Area<br>(Acre)         | 3,000. The area could be extended<br>west considerably into the upper<br>Karea Rtvr.<br>Acreage under primary forest:<br>400. Some is possibly ald second-<br>sty forest.<br>Acteage under title: nil.                                      | for extension of the block onto<br>low hills on all eargins.<br>Acreage under primary forest:                                | 21,700. The area could be extended<br>onto rather high hill land mainly<br>fr the south.<br>Acreage under prizary forest:<br>11,500.<br>Acreage under title: nil.  |
| Dostnant<br>Tepostaphy | Flat to contly sloping alluvial<br>land of Terrain Class 1.   | low to moderately high, gentle to<br>steeply sloping hills. Small<br>slope facets of Terrain Class 8<br>are probably common. | Low to moderately high hills and<br>ridges with gentle to steep slopes<br>of Terrain Classes 4 and 6: Kany<br>small slope facets occur of Terrain<br>Class 8.  |
| Main Soils             | Bijat soils are dominant with<br>subordinate Mukah, and probably<br>Anderson family pest, in places.  | Merii Family spils are dominant<br>with subordinate Malang, Aijat<br>and Anderson spils in small<br>walleys.                 | Merit Family claysy solls are<br>dominant, with locally Nymleu solls<br>and Merit solls with sandy upper<br>subsolls. Small valleys contain<br>Malang and Bijat family solls with<br>a few patches of Anderson Family<br>Past. |
| Present<br>Cultivation | Naioly swamp rice and a few seed-<br>ling rubber gardens close to<br>rivers.  | Mainly hill rice, and seedling<br>rubber gardens close to villages.  | Largely hill rice with a few small<br>seedling rubber gardens close to<br>villages.  |
| Hain<br>Hazards        | Periodic flooding and the presence<br>of deep pest close to swamp<br>margins,   | Low to moderately high, gently to<br>steeply sloping hills. Small<br>slope facets of Terrain Class 8<br>are probably common. | Low soil fertility and sheet and<br>gully erosion on unprotected steep<br>slopes. Shallow soils in places.   |
| Land<br>Suitability    | Nuch land is suitable for the<br>cultivation of irrigate crops<br>mainly patches of unwitable deep<br>paat may be present. A through<br>appreciation of the flooding;<br>drainage and irrigation problems<br>is resulted before development |  | Most of this block is thought to<br>be suitable for the cultivation of<br>dry land, annual and personnal<br>crops, although many small patches<br>may be warginal or unsuitable due<br>to greep slopes and shallow soils.      |

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| Slock                  | 9. SELEMEN-ARON  | 10. HALOI-7ABIH  |
|------------------------|--|--|
| Area<br>(Asto)         | 8,600. There is little arts hill<br>land available bur much silvosal<br>land adjacent to the Baram River.<br>Acreage under primery forest;<br>2,600.<br>Acreage under titte nil.   | 7,500, The ares could be extended<br>sightly on to higher hill lend<br>mainly to the south.<br>Acreage under primary forest:<br>6,800,<br>Acreage under title: nil.  |
| Dosinant<br>Topography | Low to moderately high, gentle to<br>steep hills and ridges of Terrain<br>Class 4 and 6. Hany small slope<br>facets of Terrain Class 8 occur.  | Low to moderately high, gentle to<br>steep hilis and ridges of Terrain<br>Classes 4 and 5. Hany small slope<br>facuts of Terrain Class 8 occur and<br>patches of Terrain Class 7 may be<br>common.   |
| Kain Soils             | Merit Family soils are dominant<br>with gubordinate Nyalar soils<br>mainly on the create of high<br>ridges. Helawy and Bijat soils<br>have been moted in small valleys.  | Nerit Fastly solls are probably<br>dominant with Nyalau solls being<br>confined largely to the higher<br>ridges. Valleys contain both<br>Smallajau and Malany solls and on<br>the northern bargin Anderson<br>Parily pest occupies note walleys. |
| Present<br>Cultivation | Hainly hill rice with seedling<br>rubber gardens close to villeges.  | Mainly Aill rice and rubber. In<br>the Tabih (Semson) area R.P.S.'A'<br>rubber has been planted successfull;   |
| Hain<br>Hazarda        | Low soil fertility and sheet and<br>gully crosion in unprotected steep<br>slopes. Shallow soils in places.   | tow soil fertility and sheet and<br>gully erosion on steep elopes,<br>Shallow soils in places  |
| Lani<br>Suitability    | Most of the block is thought to be<br>suitable for the cultivation of<br>dry land, annual and parenolal<br>crops, although many small patches<br>may be marginal of unsuitable due<br>to strep slopes and shallow soils. | to be unsuitable due to steep slope  |

Appendix Table A-2-5 DESCRIPTION OF AGRICULTURAL POTENTIAL AREA

| Block                  | 11. TERAWAN-WEST   | 12. TERAWAN-EAST  |
|------------------------|--|---|
| Area<br>(Acre)         | 3,300. There is a little scope for exten-<br>sion on the morthstm margins onto Mill land,<br>peasibly containing poor terrare soils and<br>allwrial land.<br>Acreage under primary forcet: 2,900.<br>Timber 16 being extracted in the morth.<br>Acreage under titles oil.                    | 2,500. It may be possible to extend<br>the area contracts onto higher hills<br>and vesturatio onto alluvial land.<br>Acreage under primary forest: 2,400<br>Acreage under title: nll. |
| Dominant<br>Topography | Boderstely, high to high, moderately steep to<br>steep ridges of Terrain Class 6 occur in the<br>morth. Disrected, rather lover sills of<br>Terrain Classis 4 and 6 occup; the southern<br>parts. Slope facets of Terrain Class 8 are<br>piobably most common in the ridges to the<br>morth. | with gentle to steep slopes of Terrain<br>Classes 4 and 6. Slope facets of  |
| Yain Soils             | Hized Herit and Nyalau family soils occur<br>and possibly gravelty Sabangang soils in the<br>motth: The Nyalau beabers are conlined<br>malaity to high ridges. Misor patches of<br>deep has notcur is marginal volleys.  | Hixed Merit-Nyalau family solls are<br>dominant with long matrow belts of<br>Malany and Semilajau solls in few<br>valleys.  |
| Present<br>Cultivation | Kainly hill rice in the north.   | A small patch of land is cultivated<br>for hill rice in the morth.  |
| Ksin<br>Hazarda        | Low soil fertility, sheet and gully erosion<br>on higher steep hills and ridges and shallow<br>soils.  |   |
| Land<br>Suitability    | Which of the land is marginal to suitable for<br>the cultivation of dry land, personal and<br>annual crops. There are probably many scall<br>areas of unsuitable land on steep slopes.<br>A semi-detailed soil survey may be necessary<br>to delimit the worst areas.                        | suitable for the cultivation of dry<br>land annual and gerennial crops. A<br>schidetailed soil survey may be  |

Appendix Table A-2-5 DESCRIPTION OF AGRICULTURAL POTENTIAL AREA

| station of the second secon |  |   |   |
|---|--|---|---|
| Block   | 13. GAX  | 14. BERET SELAMAT-WEST  | 15. BERET SELAMAT-FAST  |
| Ares<br>(Acte)  | 3,600. It say be possible to<br>extend the area north and south<br>into higher bills.<br>Accesse under primary forest:<br>3,400. Part of the area in being<br>exploited for timber.<br>Accesse under titler nil.   | 7,200. There is little scope for<br>expansion of this area.<br>Accedse under primary foreut:<br>6,100.<br>Accedse under title: nil.   | 1,500. There is little scope for<br>extending this block.<br>Acreage under primary forest:<br>all.<br>Acreage under sitte: nil.   |
| Doutnast<br>Topography  | Low to moderately high hills and<br>ridges with genile to steep slopes<br>of Terrain Classes 4 and 6. There<br>are probably many slope facets of<br>Terrain Class 8 and scall areas<br>of Terrain Class 7.   | Low to moderately high bills and<br>ridges with genits to steep slopes<br>in Terrain Classes 4 and 6. Many<br>slope facets of Terrain Class 8<br>occur and there may be some hills<br>of Terrain Class 7. | Low to moderately high, gantle to<br>atesp hills and ridges of Terrain<br>Classes 4 and 6: Kanp slope facets<br>of Terrain Class 8 occurs.  |
| Main Soila  | Mixed Merit and Nyalsu family<br>solls with Bijat and Malany solls<br>in the walleys.  | Merit family moils are dominant.<br>Small valleys on margins contain<br>Anderson Family pear.   | Merit Family soils are thought to<br>occur throughout the area with<br>subordinate Kapit soils on steep<br>slopes:  |
| Present<br>Cultivation  | nst  | Part of the area is planted with bill rice in the west.   | nil   |
| Xein<br>Razerde   | Low soil fertility, sheet and<br>gully crosion on steep slopes and<br>shellow soils.   | Low soil fertility, sheet arosion<br>on unprotected atcep slopes and<br>shallow soils.  | Low soff fertility, erosion on<br>unprotected steep slopes and<br>shallow soffs.  |
| Land<br>Suitabiiity   | Nuch of the land is marginal or<br>soltable (or, the cultivation of<br>dry land percential and annual<br>crops, thany mail steas consist<br>of slopes too steep for cultiva-<br>tion. A semi-detailed soil survey<br>may be required for the definita-<br>tion of the worst areas. | What of this block is considered<br>to be suitable for agriculture<br>slibbugh mony scall agrees of<br>margingl and unsuitable land<br>occurs, mainly on sizep slopes.                                    | White of the land is marginal to<br>mutrable of the cultivation of<br>dry lard, peremula and annual<br>crops. Further field invasiga-<br>tions may from the the steep<br>land is extensive. |

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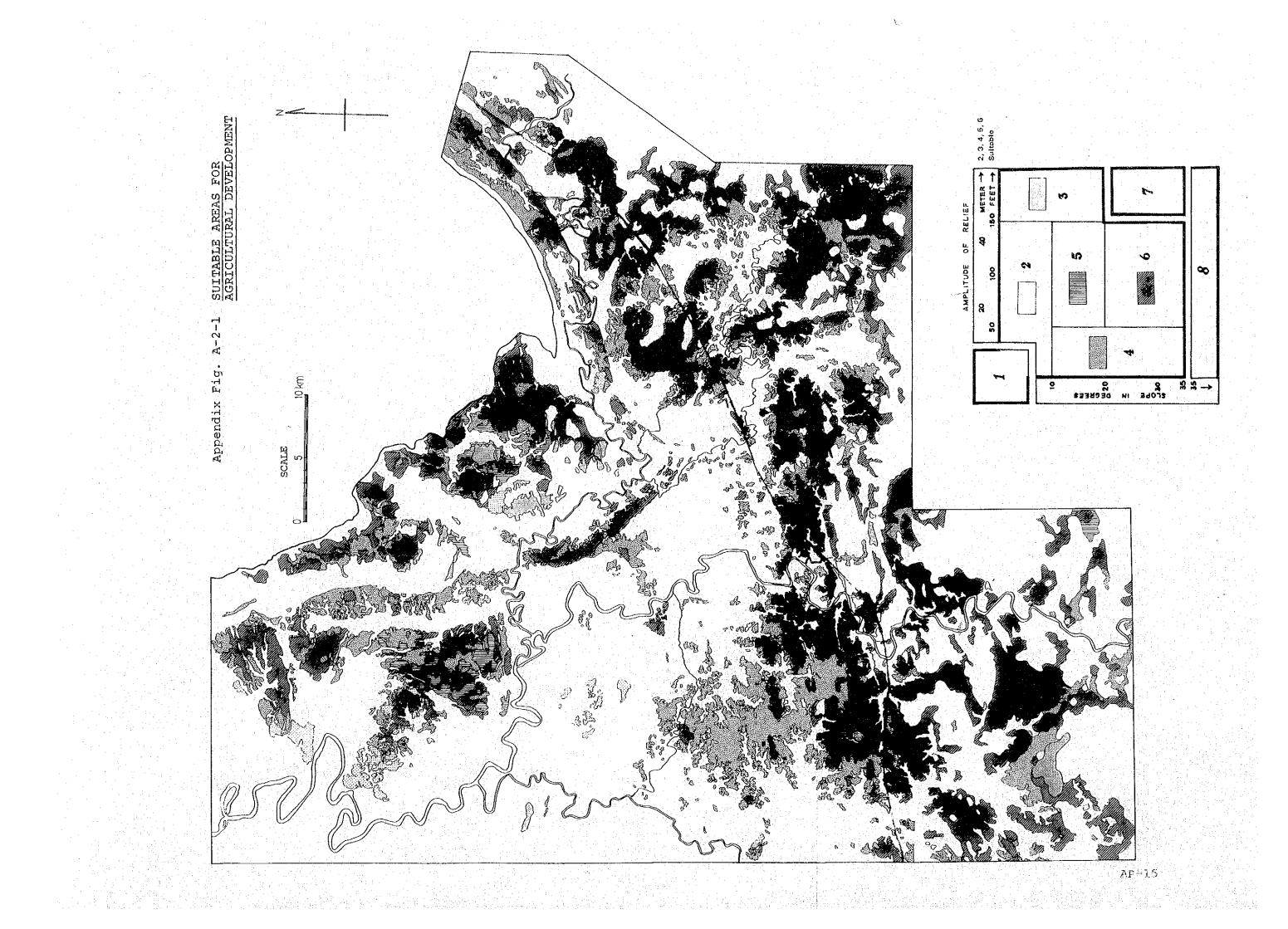
| Ap | sindix | Table | A-2-5 | DESCI | RIPTION | OF AGRI | CULTURAL    | POTENTIAL | ARRA |
|----|--------|-------|-------|-------|---------|---------|-------------|-----------|------|
|    | 1.1.1  |       | 1.1   | . C   |         | 1.1.1   | 19 - La Car | 10 A 10   |      |
|    |        |       |       |       | 11111   |         |             |           |      |
|    | 1.1.1  |       | 11 A  | P.    |         | 1.1     | 1.1         | 1 A 1 A 1 |      |
|    |        |       |       |       |         |         |             |           |      |
|    |        |       |       |       |         |         |             |           |      |
|    |        |       |       |       |         |         |             |           |      |

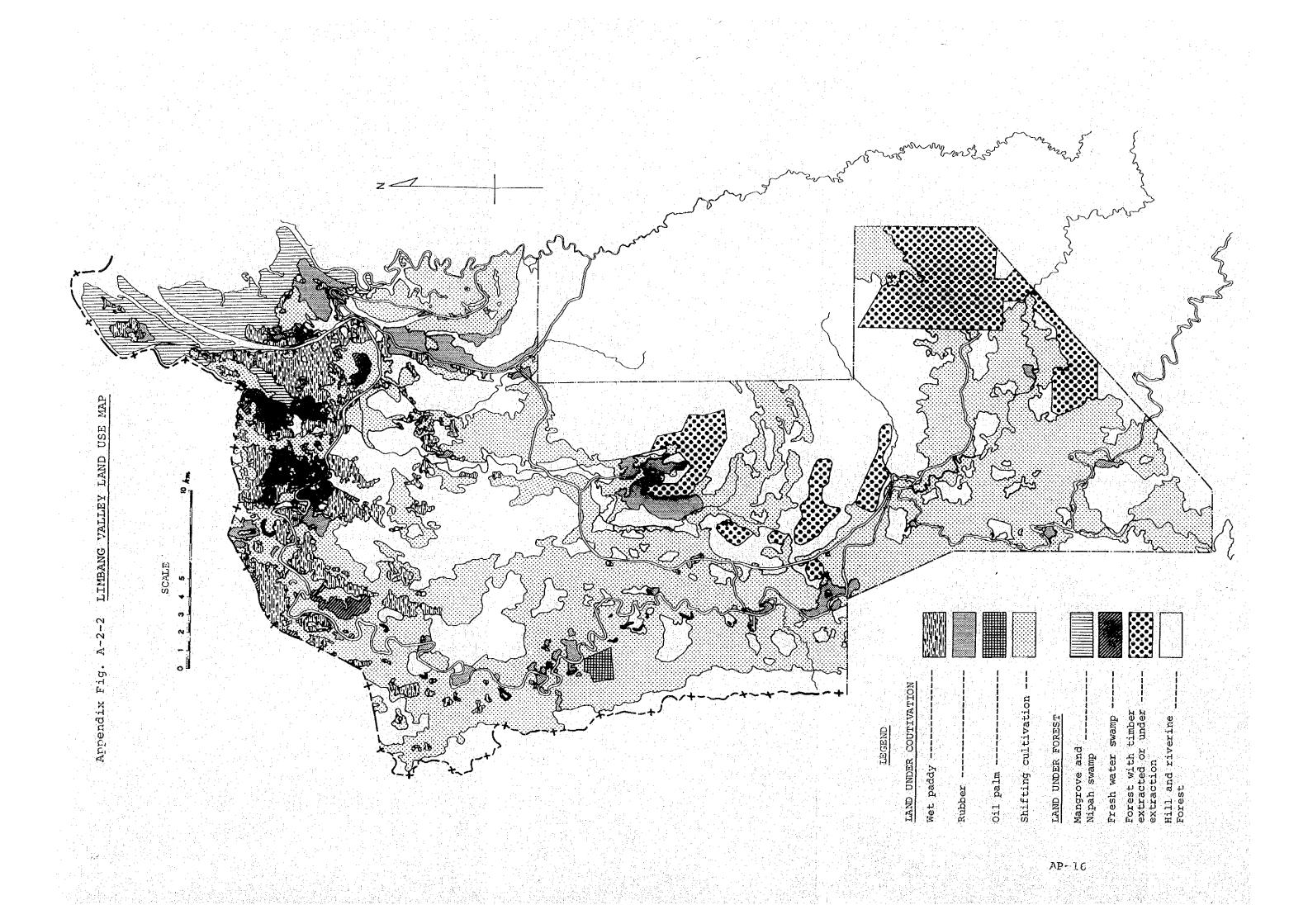
| -Slock                 | 16. ULU TERAVAN  | 17. ULAT-NORTH  | 18. ULAT-SOUTH   |
|------------------------|--|---|--|
| Area<br>(Acre)         | 2,200. Extensions to this block<br>might be gade to the north on<br>alluvial and/or gest kand.<br>Acreage under primary forests<br>all.<br>Acreage under tittes nil.   | 1,200. It may be possible to<br>excend this area north to higher<br>hill land.<br>Actesse under primary foresti<br>nili<br>Accesse under title: nili  | 2.000. It way be possible to<br>extend this black north among<br>higher hill land.<br>Actesse under primary forest:<br>200.<br>Acresse under ritkien nil.  |
| Doninant<br>Topography | Flat alluvis] land.  | Low to Goderately high, gantle to<br>steep hills and ridges of Tarrain<br>Classes 4 and 6. Hany slope<br>facets of Terrain Class 8 occur.   | Low to moderately high hills and<br>ridges with gentle to steep slopp<br>in Terrain Classes 4 and 6. Many<br>slopp farcts of Terraic Class 8<br>occur and there may be some hills<br>of Terrain Class 2. |
| Hain Soits             | but it is possible that many parts   | be dominant probably with Kalang  | Horit Family soils are dominant.<br>Scall valleys on the marging<br>contain Anderson Family past.  |
| Present<br>Cultivation |  | nii.  | nll.   |
| Hain<br>Hazards        | Periodic flooding and presence<br>of deep peat.  | low soil fertility, sheet erasion<br>on unprotected steep slopes and<br>shallow soils.  | Low soil fertility, sheat erodian<br>on unprotected steep slopes and<br>shallow soils.   |
| Land<br>Suitability    | Land autisable for the culturation<br>of strigatic crops is probably<br>dualmant, although the possible<br>precence of much pair unwitable<br>for culturation must not be dis-<br>counted. A similarit dual survey<br>would be required to delinit the<br>unwitable Land, and a through<br>appreciation of the flooding,<br>drainage and Lirigation problems<br>is required before any development<br>takes place. | Note of the lend to everyted to<br>satisfield for the culturetion of<br>dry lend, parennish and annual<br>crops. Purther field avecuing<br>tions may prove that the steep<br>land is extensive. | bot of this block is considered<br>to be suitable for spitchellure<br>although may mail areas of<br>marginal and unsitable land occu<br>mainly on steep slopes.  |

#### Appendix Table A-2-5 DESCRIPTION OF AGRICULTURAL POTENTIAL AREA

| Bleck                  | 19. BZXAND   | 20. LAHAI  |
|------------------------|--|--|
| Area<br>(Acre)         | 3,600; It may be possible to extend<br>this block southwards among higher hill<br>land.<br>Acreage under primary forest all.<br>Acreage under titler nil.  | 6,000. This block could probably be<br>extended to the east and mouth among<br>higher hill land if necessary.<br>Accesse under primery forest: all (?)<br>Accesse under ritle: nil.  |
| Dominant<br>Topography | Low to moderately high, gentle to steep<br>hills and tidges of Terrain Classes 4<br>and 6. Hany small slope facets of<br>Terrain Class 8 occur and patches of<br>Terrain Class 7 may be present:   | Low to moderately high, gentle to steep<br>hills and tidges of Ferrain Classes 4<br>and 6. Many small slope facets of<br>Terrain Class 8 occur, and patches of<br>Terrain Class 7 may be present.  |
| Main Soils             | Merit Family noils are thought to be<br>dominant with Anderson Family pest and<br>Halang and Bijat solls in the valley<br>on the wargins.  | Herit Pasily soils are dominant with<br>subordinate Nyalay soils in a few ;<br>places on the higher ridges:  |
| Present<br>Cultivation | S281] areas in the porth are in use for<br>hill rice cultivation.  | It is probable that small parts are<br>used for hill rice cultivation (none<br>in 1951 air photographs).   |
| Hain<br>Hazarda        | Low soil fertility and sheet and gully<br>erosion on steep slapes. Shallow soils<br>in places.   | tow soil fertility and sheet and gully<br>erosion on steep slopes. Shallow soils<br>in places.   |
| Land<br>Suitability    | Nuch of the block is shought to be<br>suitable or smartinal for the cultivia-<br>tion of dry land, personial and annual<br>(topp: smill wiws was likely to be<br>unstitable due to steap slopes and<br>shallow soils. A segi-detailed suivey<br>hallow soils. A segi-detailed suivey<br>hay be necessary to delimit the worst<br>streap. | Nuch of the block is thought to be<br>suftable or marginal for the cultiva-<br>tion of dry land, peremisil and annual<br>cropin jumil areas are likely to be<br>unsattable due to steep slopes and<br>shallow soils. A sent-detailed nurver,<br>may be necessary to deliait the worst<br>screas: |

|       |                     | ependix Table A-2-5 <u>DESCRIPTION</u>   | of agricultural potential ar   |   |
|-------|---------------------|--|--|---|
| 5. S. | Block               | 21. NTALIN   | 22. ATIP   | 23. MELANA  |
|       | Area<br>(Ačre)      | 14,500. Extensions to this block<br>could probably be made to the south<br>and poisibly to the west among higher<br>hills.<br>Acreage under primary foreat: 7,300.<br>Acreage under frimary foreat: 7,300.   | can only be made into alluvial<br>land on the margins.<br>Acroage under primary forest:  | 2,500. Slight extensions to this<br>block can be and to the east.<br>Acreage under primary forest:<br>200.<br>Acreage under title: n11  |
|       |                     | Low to moderately high, gently to<br>steep hills and ridges of Terraio<br>Classes 4 and 5. Many scall slope<br>facets of Terrain Class 8 becut and<br>patches of Terrain Class 7 may present.  | moderately steep hills of Terrain  | Low to moderately high hills and<br>ridges with gentle to atem slopes<br>in Terrain Classes 4 and 6. Many<br>slope facets of Terrain Class 8<br>occur and there may be some hills<br>of Terrain Class 7 |
|       | Main Soils,         | Merit Family soils are doninant, and<br>Nyalau Family soils are thought to<br>occur also in the west, mainly in<br>higher hills. Shall yalleys contain<br>Malang and Bijat soils usinly.   | Merit solls are dominant with<br>subordinate Bijat and Mukah solls<br>in the common sinor valleys.   | Merit Family solls are dominant,<br>In places Kapit Family notis occur  |
|       |                     | Parts in the east are used for hill<br>fice cultivation: Small fruit, coffee<br>and rubber gardens, some R.P.S. A',<br>are located near rivers.  | Almost wholly hilly fice.  | Meinly hill rice cultivation, wit<br>fruit, coffee and seedling rubber<br>gardens close to rivers.  |
|       | Hain<br>Hayards     | tow soil fertility and sheet and gully<br>erosion on steep slopes. Shallow<br>soils in places.   | Soil fertility, sheet erosion on<br>unprotected steep slopes and;<br>shallow soils;  | Low soil fertility, sheet erasion<br>on unprotected steep slopps and<br>shallow soils.  |
|       | Land<br>Sultability | Nuch of the block is through to be<br>accessed or parts in for one culture<br>accessed of any land, greenist and annual<br>croops matil areas dre llebby to be<br>unsuitable due to strep elipse and<br>hallow soils. A read-detailed survey<br>would be necessary to delisit the<br>worst strees. | Nost of this block is considered<br>to be multiple for cultivation<br>of dry land, perential and empeat<br>crops. Small parches of marginal<br>land may occur where there are<br>steep slopes; |   |





| Appendix i | able A-2-0 |            |       | ODOCITO |                    | 000HT |  |
|------------|------------|------------|-------|---------|--------------------|-------|--|
|            | Fo         | ourth Div. |       |         | Fifth Div.         |       |  |
| Species    | Export     | Sawmill    | Total | Export  | Sawmill            | Total |  |
| Meranti    | 366.9      | 1.9        | 368.8 | 61.0    | 1.8                | 62.8  |  |
| Ranggu     | 4.9        | neg.       | 4.9   | neg.    | <del>-</del> 2     | neg.  |  |
| Kapor      | 83.8       | 1.2        | 85.0  | 11.8    | 0.8                | 12.6  |  |
| Keruing    | 44.9       | 1.5        | 46.4  | 7.9     | 0.4                | 8.3   |  |
| S. Batu    | 35.5       | 1.2        | 36.7  | 1.0     | 0,6                | 1.6   |  |
| Resak      | 0.5        | 0.1        | 0.6   | neg.    |                    | neg.  |  |
| Sepetir    | 8.4        | 0.1        | 8.5   | neg.    | -                  | neg.  |  |
| Medang     | 1.4        | 0.1        | 1.5   | neg.    | •                  | neg.  |  |
| Bindang    | 0.1        | _          | 0.1   | 10.4    | -                  | 10.4  |  |
| Kerukup    | neg.       |            | neg.  | neg.    | e e e e <b>e</b> f | neg.  |  |
| Others     | 76.3       | 1.1        | 77.4  | 2.0     | neg.               | 2.0   |  |
| Tota1      | 622.7      | 7.2        | 629.9 | 94.1    | 3.6                | 97.7  |  |

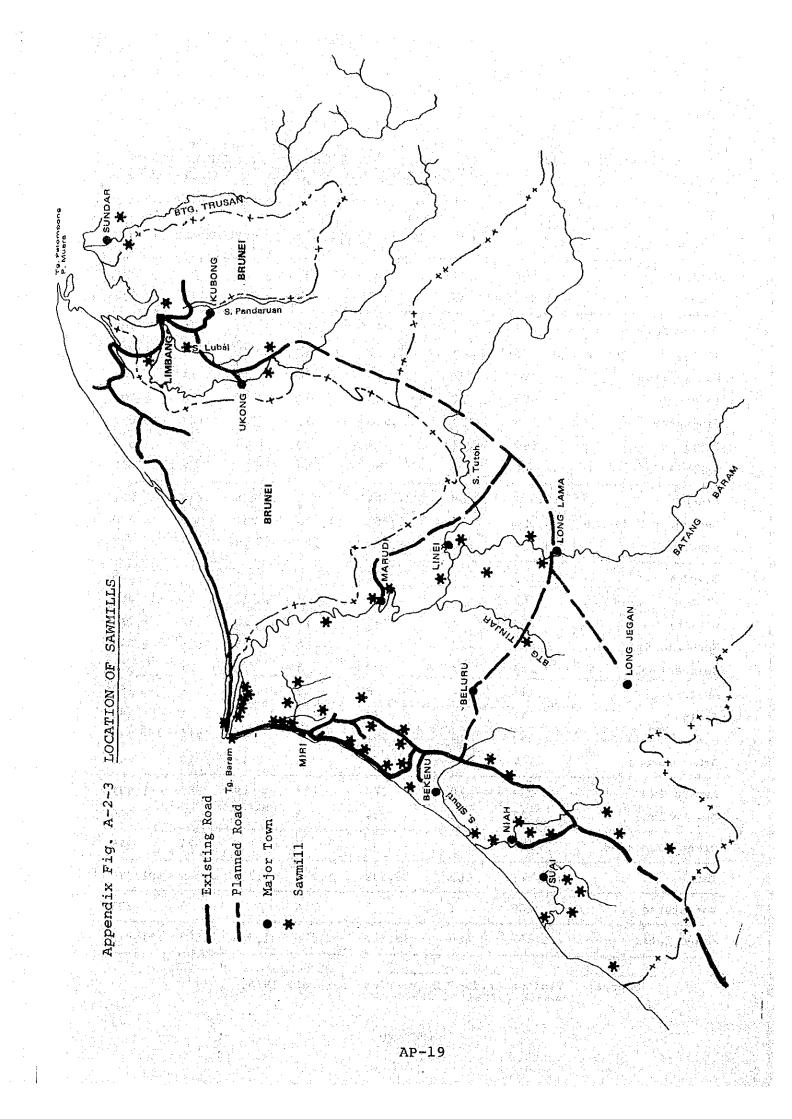
HILL TIMBER PRODUCTION, 1977 Appendix Table A-2-6

Source; Forest Department Annual Report, 1977, Miri Section 

| Appendix Table A-2-7 SWAMP TIMBER PRODUCTION                                |        |         |       |        |         |       |  |
|---|--------|---------|-------|--------|---------|-------|--|
| a Aliana ang sang sang sing.<br>Aliang sang sang sang sang sang sang sang s | Four   | th Div. |       |        | 000HT   |       |  |
| Species   | Export | Sawmill | Total | Export | Sawmill | Total |  |
| Ramin   |        | 60.2    | 60.2  |        | 4.9     | 4.9   |  |
| Jongkong  | 1.3    | neg.    | 1.3   | 2.6    | neg.    | 2.6   |  |
| Sepetir   | 29.6   | 0.8     | 30.4  | 0.2    | neg.    | 0.2   |  |
| Medang  | 0.5    | neg.    | 0.5   | neg.   | neg.    | neg.  |  |
| Semayur ,   | 0.4    | neg.    | 0.4   | -      |         |       |  |
| Kerukup   | 4.0    | 1.5     | 5.5   | neg.   | -       | neg.  |  |
| Alan  | 312.8  | 38.2    | 351.0 |        | -       | -     |  |
| Meranti   | 2.8    | 0.1     | 2.9   | 0.5    |         | 0.5   |  |
| Kapor   | 7.1    | 0.7     | 7.8   | 0.2    |         | 0.2   |  |
| Others  | 26.4   | 1.1     | 27.5  | 0.7    | 0.1     | 0.8   |  |
| Total   | 384.9  | 102.6   | 487.5 | 4.2    | 5.0     | 9,2   |  |
|   |        |         |       |        |         |       |  |

Source; Forest Department Annual Report 1977, Miri Section

|  | Remarks   | Including 3<br>domestic and<br>belian mills,<br>and 4 new<br>licences<br>issued during<br>the year. |  |                                 |  |
|--|---|---|--|---------------------------------|--|
|  |   | *Including<br>domestic a<br>belian mi<br>and 4 new<br>licences<br>issued dun<br>the year.           |  |                                 |  |
|  | Sawn Timber<br>Conversion<br>In-put Out-put<br>op. ton) (Cu. ton) | 90,399.77 42,298.54   |  |                                 |  |
| NOLLI  | l E   |   |  |                                 |  |
| IIRI   | Average Labour Employed<br>Iban Malay Melanau Others Total        | 38 868<br>1) (55)   | 613  | C)                              |  |
| N NI   | mployed<br>au Othe  |   | 39   | employees.                      | Sec.   |
| RATION   | Average Labour Employed<br>Iban Malay Melanau Othe                |   | - <b>8</b> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | :배경]<br>6<br>6                  |  |
| DPR<br>T   | rage La<br>Malay  | 252<br>) (6)  | 258  | . of female                     | t 1977,  |
| SAWMITL OPERATION IN MIRI SECTION  |   | 3 292<br>5) (23)  | 3 315  | the No.                         | Keo<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>Solaria<br>So   |
| and the second | s<br>Chin   | 268   | 293  | enotes                          | <b>Venue</b><br><b>Venue</b><br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Venue<br>Ve |
| Appendix Table A-2-8   | Total<br>No.<br>Sawmills Chinese                                  | *6 <del>6</del>   | TOTAL:   | Figures in brackets denotes the | Forest Department Annual Report 1977, Miri   |
| ndix<br>T  | mills<br>Circula  | 21  |  | es in bi                        | D. S.  |
| A DDC  | Number of Sawmills<br>tical Hori-<br>sand Band                    | 4   |  | Figur                           |  |
|  | е<br>С  |   |  | NOTE                            | Sources  |
|  | Section -   | Miri<br>Section   |  |                                 |  |
|  |   | AP-18   |  |                                 |  |
|  |   |   |  |                                 |  |



| Permanent Place<br>of Residence | Leisure/<br>Holiday | Education | Business | Official | Transit | : Others | Total   |
|---------------------------------|---------------------|-----------|----------|----------|---------|----------|---------|
| Canada                          | 487                 | 3         | 135      | 39       | 32      | 82       | 778     |
| U.S.A.                          | 1,971               | 28        | 499      | 45       | 56      | 115      | 2,714   |
| Hong Kong                       | 406                 | 1         | 245      | 11       | 13      | • 26     | 702     |
| Japan                           | 733                 | 5         | 1,136    | 35       | 24      | 36       | 1,969   |
| Philippines                     | 114                 | 2         | 66       | 36       | 23      | 15       | 256     |
| Indonesia                       | 698                 | 14        | 109      | 57       | 247     | 118      | 1,243   |
| Singapore                       | 5,169               | 13        | 4,558    | 45       | 145     | 107      | 10,037  |
| India                           | 646                 | 2         | 125      | .20      | 16      | 29       | 838     |
| Other Asia                      | 266                 | 2         | 183      | 38       | 31      | 62       | 582     |
| Brunei                          | 46,441              | 89        | 1,954    | 38       | 436     | 274      | 49,232  |
| Peninslar Malaysia              | 8,606               | 305       | 6,668    | 1,748    | 234     | 859      | 18,420  |
| Sabah                           | 3,889               | 164       | 1,191    | 227      | 215     | 144      | 5,830   |
| Belgium                         | 125                 | 1         | 2.4      | 1        |         | 6        | 158     |
| France                          | 769                 | 3         | 75       | 7        | 1.3     | 23       | 890     |
| Germany                         | 983                 | 2         | 140      | 17       | 23      | 47       | 1,212   |
| Netherlands                     | 585                 | 2         | 156      | 34       | 98      | 166      | 1,041   |
| Switzerland                     | 265                 | 1         | 25       | 3        | 3       | 13       | 310     |
| Austria                         | 147                 | -         | 8        | 2        | 1       | -        | 158     |
| Italy                           | 244                 |           | 28       | 5        | 2       | 1        | 280     |
| <b>J.K.</b>                     | 1,546               | 13        | 791      | 92       | 75      | 218      | 2,735   |
| Other Europe                    | 144                 |           | 77       | 3        | 12      | 10       | 246     |
| Australia                       | 939                 | 10        | 279      | 62       | 48      | 93       | 1,431   |
| New Zealand                     | 222                 | 3         | 34       | 3        | 2       | 36       | 300     |
| Other Countries                 | 277                 | 2         | 33       | 7        | 5       | 24       | 348     |
| <b>Total</b>                    | 75,672              | 665       | 18,539   | 2,575    | 1,755   | 2,504    | 101,710 |
| Not Stated                      | 185                 | 1         | 8        | 4        |         | 5        | 203     |
| Grand Total                     | 75,857              | 666       | 18,547   | 2,579    | 1,755   | 2,509    | 101,913 |

## Appendix Table A-2-9 ARRIVALS OF VISITORS BY PERMANENT PLACE OF RESIDENCE AND PURPOSE OF VISIT, 1976

Source; Visitor Arrival Statistics, Sarawak, 1976.

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|                      | 19      | 72    | 197     | 3     | 19      | 075        | 19                                      | 76                  | Annual<br>Growtł |
|----------------------|---------|-------|---------|-------|---------|------------|---|---------------------|------------------|
| Nationality          | Persons | : (%) | Persons | (%)   | Persons | s (%)      | Persons                                 | (%)                 | 1                |
| U.S.A.               | 2,304   | 3.8   | 2,518   | 3.8   | 2,889   | 3.7        | 3,463                                   | 3.7                 | 10.0             |
| Canada               | 400     | 0.7   | 502     | 0.7   | 515     | 0.7        | 901                                     | 1.0                 | 17.9             |
| Japan                | 1,638   | 2.7   | 1,790   | 2.7   | 1,973   | 2,5        | 1,958                                   | 2.1                 | 4.6              |
| India                | 1,322   | 2.2   | 949     | 1.4   | 899     | 10 C 1 C 1 |   | 1.2                 | -4.3             |
| Brunei               | 20,559  | 34.0  | 22,492  | 33.9  | 26,130  |            |   | 39.5                | 14.0             |
| Indonesia            | 1,019   | 1.7   | 1,595   | 2.4   | 1,563   | 2.0        | 1,169                                   | 1.3                 | 2.6              |
| Singapore            | 6,338   | 10.5  | 6,240   | 9.4   | 7,814   | 10.0       | 8,573                                   | 9.2                 | 8.6              |
| Malaysia             | 16,918  | 28,0  | 19,517  | 29.4  | 21,664  | 27.7       | 24,498                                  | 26.3                | 8.8              |
| Other Asia           | 1,421   | 2.3   | 1,260   | 1.9   | 1,184   | 1.5        | 1,430                                   | 1.5                 | -0,5             |
| France               | 487     | 0.8   | 662     | 1.0   | 972     | 1.2        | 974                                     | 1.0                 | 19.4             |
| Germany              | 492     | 0.8   |         | 1.1   | 2,435   |            | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                     |                  |
| Netherlands          | 1,515   | 2.5   | 1,627   | 2.5   |         |            |   |                     | 10.2             |
| U.K.                 | 3,547   | 5.9   | 3,641   | 5.5   | 4,428   | 5.7        |   | 5.1                 | 8,3              |
| Other Europe         | 1,009   | 1.7   | 1,145   | 1.7   |         | 1,8        | 1,393                                   | 1.5                 | 8.9              |
| Australia            | 986     | 1.6   | 1,156   | 1.7   | 1,552   | 2.0        | 1,698                                   | 1.8                 | 14.8             |
| New Zealand          | 242     | 0.4   | 317     | 0,5   | 320     | 0.4        | 365                                     |                     | 8.7              |
| Other Countri        | es 246  | 0.4   | 250     | 0.4   | 410     | 0.5        | 434                                     | 0.5                 | 17.7             |
| Total                | 60,443  | 100.0 | 66,387  | 100.0 | 78,149  | 100.0      | 93,159                                  | 100.0               | 10.8             |
| Not Stated           | .14     |       | 2       |       | 42      |            | 77                                      |                     |                  |
| Stateless<br>Persons | 10,684  |       | 12,997  |       | 8,009   |            | 8,677                                   |                     |                  |
| Grand Total          | 71,141  |       | 79,386  |       | 86,200  |            | 101,913                                 | 에 다 같다.<br>이 안 있는 것 | 8.3              |

Appendix Table A-2-10 ARRIVALS OF VISITORS BY NATIONALITY, SARAWAK

Source; Annual Statistical Bulletin, Sarawak

| Purpose of Visit  | 1973       | 1974       | 1975       | 1976 (%)   |
|-------------------|------------|------------|------------|------------|
| Leisure/Holiday   | 71.7       | 71.3       | 71.0       | 74.4       |
| Education         | 0.1        | 0.5        | 0.6        | 0.7        |
| Business          | 18.3       | 19.2       | 20.3       | 18.2       |
| <b>Official</b>   | 2.8        | 2.7        | 4.0        | 2.5        |
| Transit<br>Others | 2.0<br>5.1 | 1.9<br>4.4 | 2.2<br>1.9 | 1.7<br>2.5 |

Source; Annual Statistical Bulletin, Sarawak

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Appendix Table A-2-12 ARRIVALS OF VISITORS BY MODE OF TRANSPORT, POINT OF ENTRY AND PURPOSE OF VISIT, 1976

| 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |                   |                     |           | Purpos                               | se of Vis   | it      |        |        |
|---|-------------------|---------------------|-----------|--------------------------------------|---|---------|--------|--------|
| lode of<br>Transport  | Point of<br>Entry | Leisure/<br>Holiday | Education | Business                             | Official  | Transit | Others | Total  |
| AIR   | Kuching           | 14,144              | 464       | 10,253                               | 1,767   | 720     | 1,230  | 28,578 |
|   | Miri              | 3,224               | 56        | 4,162                                | 439   | 209     | 368    | 8,458  |
|   | Others            | 128                 | 2         | 100                                  | 7   | 12      | 33     | 282    |
|   | Sub-total         | 17,496              | 522       | 14,515                               | 2,213   | 941     | 1,631  | 37,318 |
| SEA   | Kuching           | 473                 | 5         | 40                                   | 199   | 65      | 128    | 910    |
|   | Limbang           | 19,502              | 5         | 802                                  | 31  | 214     | 60     | 20,614 |
|   | Lawas             | 790                 | 7         | 100                                  | 4   | 4       | 33     | 938    |
|   | Sundar            | 1,395               | 1         | 26                                   | 3   | 112     | 10     | 1,547  |
|   | Others            | 101                 |           | _                                    | 22  | 249     | 17     | 408    |
|   | Sub-total         | 22,261              | 18        | 987                                  | 259   | 644     | 248    | 24,417 |
| LAND  | Sungei Tujoh      | 37,754              | 122       | 3,032                                | 107   | 153     | 599    | 39,767 |
|   | Biawak            | 174                 |           | e sa terretaria.<br>Na sa terretaria | i de la composición d | 6       | 20     | 200    |
|   | Others            | 172                 | 4         | 13                                   |   | 11      | 11     | 21     |
|   | Sub-total         | 36,100              | 126       | 3,045                                | 107   | 170     | 630    | 40,178 |
| TOTAL   |                   | 75,857              | 666       | 18,547                               | 2,579   | 1,755   | 2,509  | 101,91 |

| ode of Transport | 1972    | 1973    | 1975    | 1976    | Average<br>Annual<br>Growth<br>Rate (% |
|------------------|---------|---------|---------|---------|--|
| Air ; Number     | 24,704  | 29,460  | 35,527  | 37,318  | 10,7                                   |
| (%)              | (34.7)  | (37.1)  | (41.2)  | (36.6)  |  |
| Sea ; Number     | 17,358  | 18,708  | 18,442  | 24,417  | 6.9                                    |
| (%)              | (24.4)  | (23,6)  | (21.4)  | (24.0)  |  |
| Land ; Number    | 29,079  | 31,218  | 32,231  | 40,178  | 7.0                                    |
| (%)              | (40.9)  | (39.3)  | (37.4)  | (39.4)  |  |
| Total ; Number   | 71,141  | 79,386  | 86,200  | 101,913 | 8.3                                    |
| (%)              | (100.0) | (100.0) | (100.0) | (100.0) |  |

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|--------------------|-------------|---------|--------------|--------|---------|--------|------------|--------|--|
| Intended Length    | <u>A</u> ]  | ÍR      | SEA          | •      | L/      | ND     | TOI        | 'AL    |  |
| of Stay            | Persons     | 3 (%)   | Persons      | (%)    | Persons | 6 (%)  | Persons (% |        |  |
| Less than 1 day    | 507         | (1.4)   | 12,856       | (53.2) | 2,659   | (6.6)  | 16,022     | (15.9) |  |
| 1 - 3 days         | 8,568       | (23.3)  | 4,771        | (19.7) | 18,323  | (45.8) | 31,662     | (31.4) |  |
| 4 - 7 days         | 11,539      | (31.4)  | 3,547        | (14.7) | 13,900  | (34.7) | 28,986     | (28.7) |  |
| 8 - 14 days        | 10,069      | (27.4)  | 2,456        | (10.2) | 3,779   | (9.4)  | 16,304     | (16.2) |  |
| 15 - 21 days       | 1,121       | (3.1)   | 70           | (0.3)  | 251     | (0.6)  | 1,442      | (1.4)  |  |
| 22 days to 1 month | 587         | (1.6)   | 54           | (0.2)  | 84      | (0.2)  | 725        | (0.7)  |  |
| 1 - 3 months       | 2,406       | (6.6)   | 150          | (0,6)  | 517     | (1,3)  | 3,073      | (3.0)  |  |
| 3 - 6 months       | 66.0        | (1.8)   | 41           | (0.2)  | 156     | (0.4)  | 857        | (0.8)  |  |
| 6 months to 1 year | 366         | (1.0)   | 30           | (0,1)  | 178     | (0.5)  | 574        | (0.6)  |  |
| Over 1 year        | 899         | (2.4)   | 186          | (0.8)  | 210     | (0.5)  | 1,295      | (1,3)  |  |
| Total              | 36,722      | (100.0) | 24,161       |        | 40,057  |        | 100,940    |        |  |
| Not Stated         | 596         |         | 256          |        | 121     |        | 973        |        |  |

Appendix Table A-2-14 ARRIVALS OF VISITORS BY INTENDED LENGTH OF STAY, 1976

Source; Annual Statistical Bulletin, Sarawak.

| Month     | 1973  | 1974  | 1975  | 1976  |
|-----------|-------|-------|-------|-------|
| January   | 6.7   | 7.1   | 7.2   | 6.1   |
| February  | 7,2   | 6.8   | 7.0   | 7.1   |
| March     | 6.5   | 8.0   | 8,5   | 7.3   |
| April     | 9.6   | 9,3   | 9.6   | 8.8   |
| May       | 8.6   | 8.0   | 8.5   | 9.0   |
| June      | 8,2   | 7.9   | 7.0   | 7.9   |
| July      | 9.5   | 8.6   | 8.5   | 8.4   |
| August    | 10.5  | 10.2  | 10,1  | 8.7   |
| September | 7.7   | 7.9   | 7.5   | 9.8   |
| October   | 8.8   | 8.7   | 8.8   | 7.8   |
| November  | 7.6   | 7.2   | 7.7   | 8.3   |
| December  | 9.1   | 10.3  | 9.6   | 10.8  |
| TOTAL     | 100.0 | 100.0 | 100,0 | 100.0 |

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Source; Annual Statistical Bulletin, Sarawak, 1973 and 1976.

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|                        | Total-            |  |   |  |   |   |   |   |   |   |                           |          |
|------------------------|-------------------|--|---|--|---|---|---|---|---|---|---------------------------|----------|
|                        | <u> </u>          |  |   |  |   |   |   |   |   |   |                           | <b> </b> |
|                        | i                 |  |   |  |   |   |   |   |   |   |                           | <br> .   |
|                        | ন্ন ৵প্ল          |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 8.∿£              |  |   |  | <b>N</b>  |   |   |   | •   |   |                           |          |
|                        | ē <sup>1</sup> ∿8 |  |   |  |   |   | al deleta del   |   |   |   |                           |          |
|                        | စ္ ∿ပ်            |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 5∿8               |  |   |  |   |   |   |   |   |   |                           |          |
|                        | ₽ ~ <u>5</u>      |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 15<br>신<br>15     |  |   |  |   |   |   |   |   |   |                           | ŀ        |
|                        | <b>4</b> ~応       |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 5 ∿ <del>4</del>  |  |   |  |   |   |   |   |   | and and<br>analysis   |                           |          |
|                        | ត ហត              |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 5∿⊒               |  |   |  |   |   | al esta en esta<br>esta la companya esta esta<br>esta esta esta esta esta esta esta esta  |   |   |   |                           |          |
|                        | <b>₽∿</b> ₽       | a<br>persita en en A                                   |   | n), s<br>Normal Artico   | an<br>1975 - Arth   |   |   |   |   |   | en de train<br>Number ata |          |
|                        | o ∿ <u>o</u>      |  |   |  |   | ning se<br>Kiselin  |   |   |   |   |                           |          |
|                        | ೲ∿ຫ               |  |   |  |   |   |   |   | 1.4                                       |   |                           |          |
|                        | r-∿∞              |  |   |  |   |   |   |   |   |   |                           |          |
|                        | φ~v~              |  |   |  |   |   |   |   |   |   |                           |          |
|                        | տ∿տ               |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 4 0.0             |  |   |  |   |   |   |   |   |   |                           |          |
| n an<br>Na Bh<br>An An |                   |  |   |  |   |   |   |   |   |   |                           |          |
|                        | က ့က္             |  |   |  |   |   |   |   |   |   |                           |          |
| 2                      | - vu              |  |   |  |   |   |   |   |   |   |                           |          |
|                        | 0 V-              |  |   |  |   |   |   |   |   |   |                           |          |
|                        |                   |  |   |  |   |   |   |   |   |   |                           |          |
|                        | e                 |  |   | <b>.</b>   |   |   |   |   | na y e dela<br>Recordencia<br>Recordencia |   |                           |          |
|                        | f Vehic           |  |   |  | *   |   |   |   |   |   |                           |          |
|                        | Type o            |  |   | pick-u   |   | S HE  |   |   | or cycle                                  | 8   | Ϋ́ς                       | .        |
| 1                      |                   | ້ອ   | 2. Taxi   |  | Pex   | Tea<br>T  | Lruc -  | 7. Bus  | Mot                                       | 9. Bicycle  | to. Others                |          |
|                        |                   | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Type of Vehicle     0     1     2     2       Type of Vehicle     3     2     2     2       Type of Vehicle     3     2     2     2       Type of Vehicle     1     12     13     12     13       Type of Vehicle     1     1     12     13     12     13       Type of Vehicle     1     1     12     13     12     13       Type of Vehicle     1     1     12     13     12     14       Type of Vehicle     1     1     12     13     12     13       Type of Vehicle     1     1     12     13     12     14       Type of Vehicle     1     1     12     12     14     15       Type of Vehicle     1     1     12     2     2     2       Type of Vehicle     1     1     12     2     2     2       Type of Vehicle     1     1     1     12     2     2       Type of Vehicle     1     1     1     12     2     2       Type of Vehicle     1     1     1     12     2     2       Type of Vehicle     1     1     1     12 | <ul> <li>第一次の</li> <li>第小次の</li> <li>第小次</li></ul> | No.         No. <td>Yes       Yes         1       1         &lt;</td> <td>Market       3% γ         Market       3% γ         M</td> <td>Βυν Β         Βυν Β         Βυν Β           Βυν Β         Βυν Β         Βυν Β           <t< td=""><td></td><td>Surger       Surger       Surger</td><td></td><td>8.0.8      </td></t<></td> | Yes       Yes         1       1         < | Market       3% γ         M | Βυν Β         Βυν Β         Βυν Β           Βυν Β         Βυν Β         Βυν Β <t< td=""><td></td><td>Surger       Surger       Surger</td><td></td><td>8.0.8      </td></t<> |   | Surger       Surger |                           | 8.0.8    |

|                     |  |          |                    |              |             | 14. Major<br>points  | en route<br>Name of route<br>or municipality<br>en route               | 14.<br>Major<br>points<br>en coute  |      |   |  |
|---------------------|--|----------|--------------------|--------------|-------------|----------------------|--|---|------|---|--|
|                     |  |          |                    |              |             | Average<br>travej    |  | 13.<br>Average<br>travel time   |      |   |  |
|                     | Truck-trailer  |          | Motor cycle        | 4            |             | 13<br>13<br>13       |  | 12.<br>Waight   |      |   |  |
| ehicle              | 6 Truck  | 7   Bus  |                    | 9 Bicycle    | 10 Others   |                      | 12. Weight<br>of the<br>Commo-<br>dities<br>(tons)                     | carriad   |      |   |  |
| 2. Type of vehicle  |  |          |                    |              |             | Trucks               | 11. Type of<br>Commo-<br>dities<br>carried                             | Type of commodities carried   |      |   |  |
|                     |  |          |                    |              |             |                      | 10. Loading<br>Capacity<br>(tons)                                      | 10. 11.<br>Loading Type<br>capacity   |      |   |  |
|                     |  | 1.       | Van, Pick-up       | Medium truck | Heevy truck | 2                    | No. of<br>Passangers<br>aboard   | Č.  |      |   |  |
|                     | 1 C&   | 2 Taxi   | e                  | 4 Mec        | 5 _ He      | Passenger cars       | Capacity 9   | 8<br>Capacity<br>Dayscity   |      |   |  |
|                     |  |          | actual time)       | - 1          |             |                      | se, racreation   | 7.<br>Trip<br>purpose   |      |   |  |
|                     |  |          | / IEnter actua     |              |             | 7. Trip purpose      | Home-Workplace<br>Work<br>To Home<br>Social Intercourse, rec<br>Others | 6.<br>Destination   |      |   |  |
| wer chart           | No.  |          | sor                |              |             | 6.<br>Uestina-       | Name of the 2 you finally 3 finish the trip 4 to 5                     | Origin  |      |   |  |
| Name of Interviewer | and a subsective of the second se   |          | Name of supervisor |              |             | Orlein<br>S          | Name of the<br>Name of the<br>place where<br>you start<br>the trip     | initial and the second s |      |   |  |
|                     | A STREET AND A STR |          |                    |              |             | vehicle              | <b>4</b>   | 3. Model/mske<br>ie of the vehicle  |      |   |  |
| Station No.         | Date of Interview  | Weather  | Citerio            |              |             | Model of the vehicle | 33.3<br>Madei(   | Time 2.<br>Type of vehicle  |      |   |  |
| \$                  |  | <b>_</b> |                    | 1            |             |                      |  |   | AP-2 | 5 |  |

| 1     1     1     1     1       1     5     Trip purpose | n 4. Major places 1. H            | Name of route or 3. 4. 4.   | route | Student                           | Housewife              | Илетріоуед                 | Others (Specify)     | Pessenger Characteristics<br>9. 10. 11. Race<br>Sex Age Occupation Race |  |  |  |  |
|--|-----------------------------------|---|-------|-----------------------------------|------------------------|----------------------------|----------------------|---|--|--|--|--|
|  |                                   | Name of the Name of the place where vou start the you start the you finally |       | 1. Managerial staff 5.            | Supervisor or craftman | 3. Shop or office clerk 7. | 4. Part-time workers | Transport means<br>before/efter<br>Travel time                          |  |  |  |  |
|  | Sheet<br>No. 1. Time of interview | (Enter actual time)   |       | 88<br>Sex                         |                        | 1. Male                    |                      | o<br>di<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T                    |  |  |  |  |
| יי<br>ד<br>ד   | Name of Interviewer               | Name of Supervisor  |       | 7, Average                        | travel time            |                            |                      | Destination Major places en roure                                       |  |  |  |  |
|  |                                   | Weather   |       | 6. 1. On foot<br>Transport 2. Bus | 6                      | ÷                          | 5. Others            | Time Origin   |  |  |  |  |

|                                  |                      |                     |                 | 14. Mejor<br>points                | en route                   | ar municipelity<br>en route               |          | 14.<br>Major<br>points<br>en routs |   |  |      |            |          | •        |   |   |   | · : |         |
|----------------------------------|----------------------|---------------------|-----------------|------------------------------------|----------------------------|---|----------|------------------------------------|---|--|------|------------|----------|----------|---|---|---|-----|---------|
|                                  |                      |                     |                 | 8                                  | time                       |   |          | 13.<br>Average<br>travel time      |   |  |      |            | <b>,</b> | 1        |   |   |   |     |         |
|                                  | Oll Tanker           | 2                   |                 | άÞ<br>Ϋ́                           |                            | <u>¢</u>                                  |          | 12.<br>Weight                      |   |  |      | i El al Mi |          |          |   |   |   |     |         |
| Type of vehicle                  | -                    | 8 Others            |                 |                                    | f 12. Weight               |   | (tons)   | s carried                          |   |  |      |            |          |          |   |   |   |     |         |
| 2. Type o                        |                      |                     |                 | G oods                             | 11. Type of                | dities<br>carriad                         |          | 1<br>Type of commodities carried   |   |  |      |            |          |          |   |   |   |     |         |
| ی<br>ان<br>ان ان                 |                      |                     |                 |                                    | 10. Losding                | (tons)                                    |          | -                                  |   |  |      |            |          |          |   |   |   |     |         |
| Boat                             | oo.                  | Motor Launch        | Boat<br>Dat     |                                    | No. of                     | aboard<br>aboard                          |          | of Loading<br>capacity             |   | ·<br>· · · · · · · · · · · · · · · · · · · |      |            | . ا      |          |   |   |   |     |         |
| 1 Long Boat                      |                      | + +                 |                 | Passenger                          | o<br>                      |   |          | lty No. of pass.                   |   |  |      |            |          |          |   | د.<br>المحمد المحمد الم<br>المحمد المحمد |   |     |         |
|                                  |                      | <b>n</b>            | 4 D             |                                    | 8. Capacity                |   |          | 8.<br>Capecity                     |   |  |      | ·····      |          |          | 4 |   |   |     |         |
|                                  | 1. Time of interview | (Enter actual time) |                 |                                    |                            | recreation                                |          | 7,<br>Trip                         | 7 |  | <br> | 2          |          | <u> </u> |   |   | 1 |     |         |
|                                  | 1. Time              |                     |                 | 7. Trip purpose<br>Home-Work blace |                            | To Home<br>Social Intercourse, recreation | Others   | 6.<br>Destination                  |   |  |      |            |          |          |   |   | [ |     |         |
| Sheer<br>Sheer                   | 202                  |                     | $\overline{\ }$ | -<br>-                             | ·   ~                      | n <b>4</b>                                | <b>.</b> |                                    |   |  |      |            |          |          |   |   |   |     | <b></b> |
| rviewer                          |                      | ervisor             |                 | 6. Destina-<br>tion                | Name of the<br>place where | You their<br>finish the                   |          | 5.<br>Origin                       |   |  |      |            |          |          |   |   |   |     |         |
| Name of Interviewer              |                      | Name of supervisor. |                 | Origin                             | Name of the place where    |   |          | 8<br>4                             |   |  |      |            |          |          |   |   |   |     |         |
|                                  |                      |                     |                 | 10<br>2                            | Dac                        | You<br>Age                                |          | 3.<br>Model/make<br>of the vehicle |   |  |      |            |          |          |   |   |   |     |         |
| lo.<br>Iterview                  |                      | Direction           |                 | Model of the versal                | 4                          | <b>4</b><br>2011                          |          | 2.<br>Type of<br>vasse             |   |  |      |            |          |          |   |   |   |     |         |
| Station No.<br>Date of interview | Weather              |                     |                 | Pow                                | ei                         | Model/                                    |          | 1.<br>Time                         |   |  |      |            |          |          |   |   |   |     |         |
|                                  |                      |                     |                 |                                    |                            |   |          |                                    |   | Ą  | 2-27 |            |          |          |   |   |   |     |         |

