FINAL REPORT THE DEVELOPMENT STUDY ON THE NATIONWIDE FERRY SERVICE ROUTES IN THE REPUBLIC OF INDONESIA APPENDIXES

March 1993

JAPAN INTERNATIONAL COOPERATION AGENCY



No, 72



2512/

FINAL REPORT THE DEVELOPMENT STUDY ON THE NATIONWIDE FERRY SERVICE ROUTES IN THE REPUBLIC OF INDONESIA APPENDIXES

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国際協力事業団 25121

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1. Table and Figure Mentioned in the Main Report

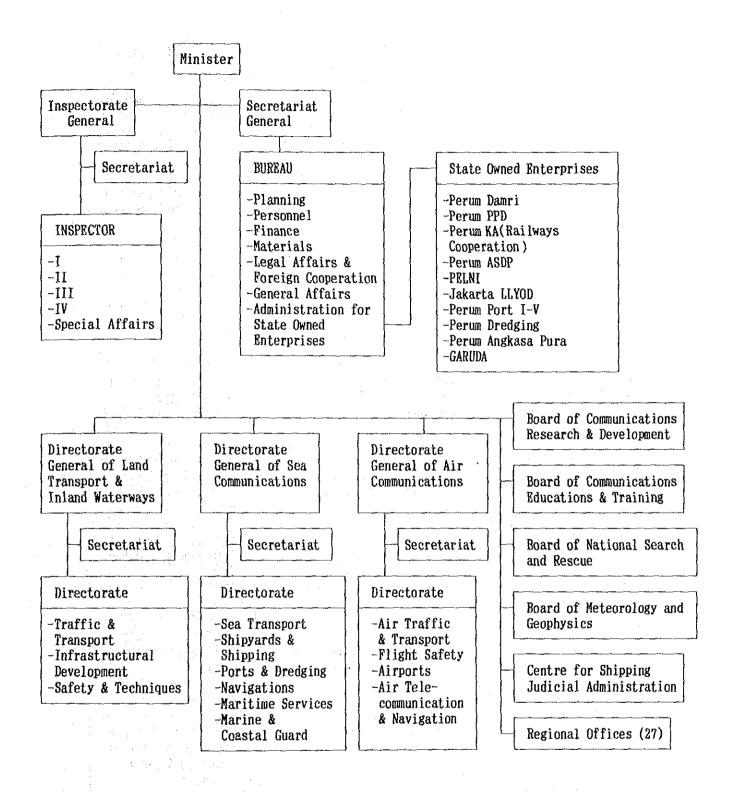


Fig. 1-2-1A Organization Chart of Ministry of Communications

- 1 --

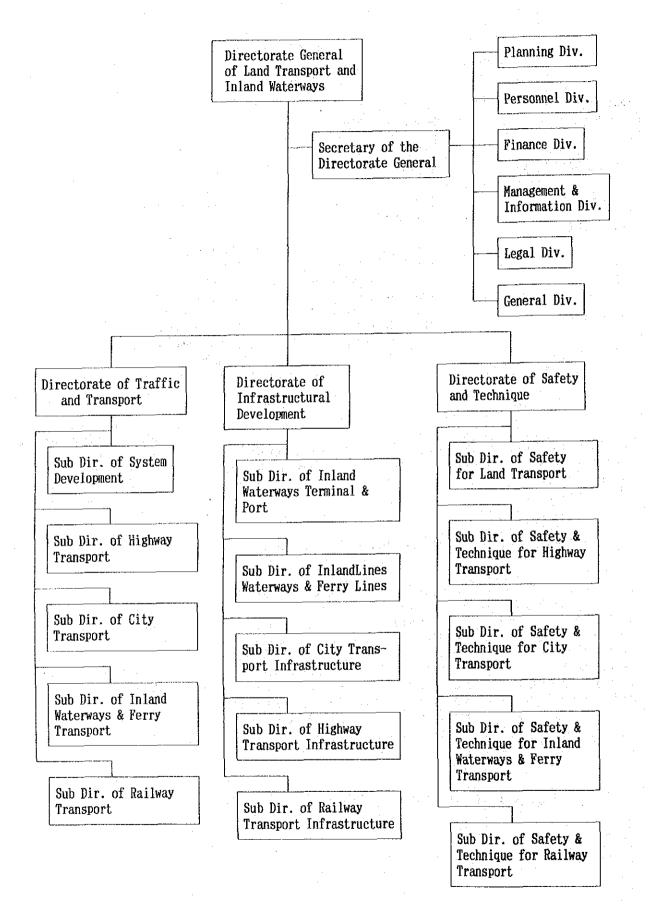


Fig. 1-2-2A Organization Chart of DGLT

-2 ---

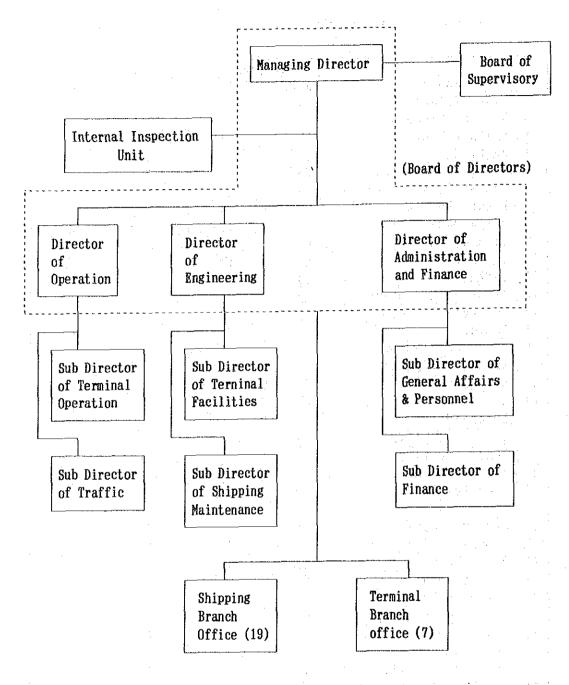
| 1.0 | | Ship | ping | Terminal | | |
|-----|----------------------|-------|---------|----------|--|--|
| No | Route | PASDP | Private | MOC | PASDP | |
| 1 | Saban-Malahayati | Ō | | 0 | | |
| 2 | Melaboh-Sinabang | 0 | | 0 | | |
| 3 | Ajibata-Tomok | | 0 | 0 | | |
| 4 | Jambi City | 0 | | 0 | | |
| 5 | Jambi-Kualatungkal | 0 | | 0 | | |
| 6 | Palembang-Kayuarang | | 0 | 0 | | |
| 7 | Bangka-Belitung | 0 | | O(1) | | |
| 8 | Merak-Bakaheuni | 0 | 0 | | 0 | |
| 9 | Cilacap-Kalipucang | 0 | 0 | 0 | | |
| 10 | Ujung-Kamal | 0 | 0 | | 0 | |
| 11 | Jankar-Kalianget | 0 | | 0 | | |
| 12 | Ketapang-Gilimanuk | 0 | 0 | | 0 | |
| 13 | Padangbai-Lembar | 0 | 0 | | 0 | |
| 14 | Lombok-Tano | 0 | 0 | | 0 | |
| 15 | Sape-Komodo-Labuh. | 0 | | 0 | | |
| 16 | Kupang-Larantuka | 0 | | 0 | | |
| 17 | Kupang-Rote | 0 | | 0 | | |
| 18 | Kupang-Kalabahi | 0 | - | 0 | an a | |
| 19 | Kupang-Sabu | 0 | | 0 | | |
| 20 | LarWaiwLewol. | 0 | | 0 | | |
| 21 | Pontianak City | 0 | | 0 | | |
| 22 | Kartiasa River Cr. | 0 | | 0 | | |
| 23 | Semuntai River Cr. | 0 | 1 | 0 | | |
| 24 | Sekura River Cr. | 0 | | 0 | | |
| 25 | Merauke-Bupul | 0 | | 0 | | |
| 26 | Penajam-Balikpapan | 0 | 0 | 0 | | |
| 27 | Bajoe-Kolaka | 0 | 0 | 0 | | |
| 28 | Bira-Pamatata | 0 | | 0 | | |
| 29 | Toroburu-Tampo | 0 | | 0 | | |
| 30 | Baubau-Tolandona | 0 | | 0 | | |
| 31 | Luwuk-Sabang-Salakan | 0 | | 0 | | |
| 32 | Poka-Galala | 0 | - | 0 | | |
| 33 | Hunimua-Waipirit | 0 | 0 | 0 | | |
| 34 | Sorong-Jeffman | 0 | | 0 | | |
| 35 | Sibolga-Gn.Sitoli | 0 | 0 | 0 | | |

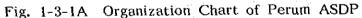
Table 1-3-1A Management Body of Ferry Transportation

Note: PASDP; Perum ASDP

(1); Terminal facilities belong to DGSC (Directorate General Sea Communications)

MOC; Regional office of MOC(Ministry of Communications)



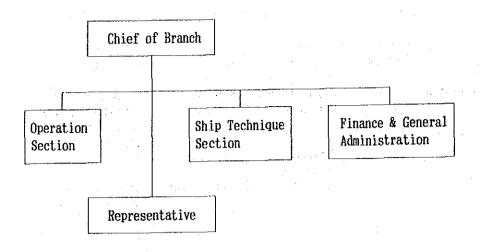


- 4 -

| | | Class | Office | Location | Shipping Routes |
|---|-----------------|-------|--------------------------------------|----------------------------|--|
| | Shipping Branch | I | Jabar-Lampung Bali-NTB | Merak Mataram | Merak-Bakauheni Padangbai-Lembar Lombok-Pototano |
| | | | | | Sape-Komodo-L.Bajo |
| | | | Ketapang -Gilimanuk Sulselra | Ketapang Ujung Pandang | Ketapang-Gilimanuk Bajoe-Kolaka |
| | | | buibeiru | Dang I momb | Bira-Pamatata Bau bau-Tolando |
| | | | | | Torobulu-Tampo-Maligono |
| | | II | Surabaya NTT | Surabaya Kupang | Ujung-Kamal Kupang-Rote Kupang-Larantuka Larantuka-Waiwerang -Lewoleba |
| | | | | e a ta se | Kupang-Kalabahi Kupang-Sabu Kupang-Bnde |
| | | | Balikpapan -Panajan Maluku | Balikpapan Ambon | Balikpapan-Panajam Hunimua-Waipirit |
| | | | KSO PASDP | Banjarmasin | Poka-Galala Semarang-Kumai -Banjarmasin |
| | | | | | -Surabaya-Sampit |
| - | | Ш | Banda Aceh Meulaboh | Banda Aceh Meulaboh | Balohan-Malahayati Meulaboh-Sinabang |
| | | | Jambi -Sumbar | Jambi | Jambi City Jambi-T.pinang Jambi-S.Gantung |
| | | | Bangka -Belitaung | Bangka | Jambi-Temb P.Balam-Tanjung Pandan |
| | | | -Belltaung Cilacap -Kalipucang | Cilacap | Cilacap-Sidareja Kalipucang-Sidareja Cilacap-Kalipucang |
| | | | Kalianget -Jangkar Kal-Par | Nudura | Kalianget-Jangkar Kartiasa Barat-Timur |
| | | | Kal-Bar | Pontianak | Kartiasa Barat-Ilmur Senggau-Sekado(Semuntai) Kota-Siantan Tharapan-Tkalong(Sekura) |
| | | | Luwuk-Salakan Sorong Merauke | Luwuk Sorong Merauke | Luwuk-Salakan Sorong-Jefman Merauke Jaya-Pomako |
| | | | | | Bade-Tanah Merah-Midiptana Merauke-Bupul Merauke-Tanah Merah |

Table 1-3-2A Shipping Branch Offices of the ASDP

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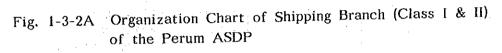


Table 1-3-3A Terminal Branch Offices of the Perum ASDP

| | Class | Office | Location |
|-----------------|-------|--|---|
| Ternimal Branch | I | Merak-Bakauheni | Merak |
| | II | Ketapang-Gilimanuk Ujung-Kamal Padangbai Lembar Lombok Timur Pototano | Ketapang Surabaya Padangbai Lembar Lombok Pototano |

-- 6 --

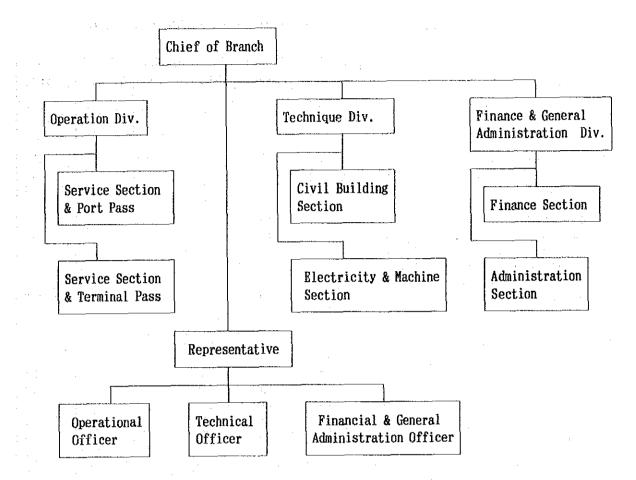


Fig. 1-3-3A Organization Chart of Terminal Branch (Class I) of the Perum ASDP

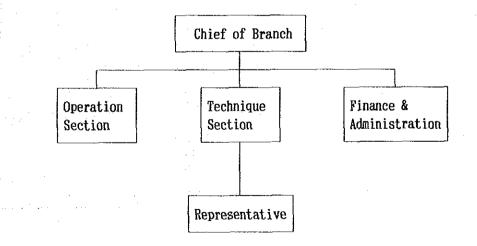


Fig. 1-3-4A Organization Chart of Terminal Branch (Class II) of the Perum ASDP

| | | Emo | loyee | Con | tract | Govern. | | |
|-----|----------------------|------|---------|------|-------|-----------------|--|-------|
| | Office | Land | | Land | | <u>Official</u> | Temp. | Total |
| I | Head Office | 117 | 33 | 14 | - 8 | - 8 | 13 | 193 |
| II | Comercial Routes | | | | | 1 | | |
| 1 | Jabar-Lampung | 43 | 57 | 5 | -5 | | | 11(|
| 2 | Sul-Sel-RA | 17 | | 3 | 1 | | | 2 |
| 4 | A. Bajoe-Kolaka | 7 | 19 | . 1 | 1 | | | 28 |
| | B. Bira-Pamatata | 6 | 14 | | 2 | | | 22 |
| 3 | Bali-NTB | 35 | 77 | 25 | 27 | 1 | <u>.</u> | 16 |
| 4 | Maluku | 27 | 17 | 13 | 26 | | | - 8 |
| 5 | Kalimantan Timur | 19 | 17 | 1 | 1 | | | 38 |
| 6 | Ujung-Kamal | 47 | 15 | 11 | 8 | | | 81 |
| 7 | Ketapang-Gilimanuk | 48 | 79 | 17 | 15 | | and the second | 15 |
| 8 | Banda Aceh | 16 | 10 | 5 | 7 | | | 31 |
| 9 | N.T.T. | 20 | 36 | 14 | 12 | | | 82 |
| . 9 | ilia La La | 20 | | | | | | |
| III | Pioneer Routes | | | | | | | 6' |
| | Kalimantan Barat | 31 | 36 | | | | | 3 |
| | Kalianget | 14 | 14 | 1 | 6 | | | |
| | Meulaboh-Sinabang | 14 | 16 | 2 | 1 | | | 33 |
| | Merauke | 10 | 15 | 11 | 11 |]. | | 41 |
| | Cilacap | 4 | · · . 6 | 6 | 6 | | an an an an th | 2 |
| | Sorong | 6 | 1 | 3 | 3 | | an a | 19 |
| | Luwuk | 3 | 10 | 4 | 10 | | | 2' |
| | Sul-Sel-Ra | | | | | | | |
| | A. Torobulu-Tampo | 6 | 12 | | | | | - 10 |
| | B. Bau Bau-Tolandona | 4 | 8 | | 1 | | | 1 |
| | Bangka-Belitung | 13 | 15 | 2 | 4 | | | 34 |
| | Jambi-Sumbar | 26 | 26 | 1 | 5 | .1 | | 5 |
| IV | Joint Operation | | | | | | | |
| T Å | A. Banjarmasin | 15 | 34 | 5 | 7 | | | 6 |
| | B. Surabaya | 12 | | 1 | • | | | 1 |
| | | 9 | | 3 | | | | 1 |
| | C. Semarang | 0 | | v | | | | |
| γ | Terminal | | | | | | | |
| | A. Merak | 88 | | 45 | | 1 | | 13 |
| | B. Bakauheni | 133 | | 61 | | 1 | | 19 |
| | C. Ketapang-Gim. | 107 | | 37 | | e a | 43 | 18 |
| | D. Ujung-Kamal | 52 | | 90 | | | | 14 |
| | E. Lembar | 17 |] | 39 | | | | 5 |
| | F. Padangbai | 13 | | 35 | | | | 4 |
| | | | | | | | | |
| | TOTAL | 979 | 573 | 455 | 167 | 12 | 56 | 2,24 |

Table 1-3-4A Number of Personnel at the Perum ASDP in 1991

• •

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| · · · | and the second sec | 1987 | 1988 | 1989 | 1990 | 1991 |
|---------------|--|-------|-------|-------|-------|-------|
| Perum Regular | Head Office | 91 | 90 | 94 | 98 | 15(|
| Етроуее | Branch | | l l | | · | |
| | Land | 411 | 391 | 439 | 407 | 862 |
| | Ship | 482 | 478 | 443 | 447 | 541 |
| Sub-total | | 984 | 959 | 976 | 952 | 1,552 |
| Government | Land | 601 | 505 | 510 | 712 | 1 |
| Official | Ship | 0 | 86 | 123 | 159 | . (|
| Sub-total | | 601 | 591 | 633 | 871 | 1 |
| Contract | Land | 105 | 178 | 214 | 207 | 51 |
| Employee etc. | Ship | 17 | 51 | 101 | 146 | 16 |
| Sub-total | | 122 | 229 | 315 | 353 | 67 |
| TOTAL | · · · · | 1,707 | 1,779 | 1,924 | 2,176 | 2,24 |

| Table 1-3-5A Number of Personnel at t | ie Perum | ASDP |
|---------------------------------------|----------|------|
|---------------------------------------|----------|------|

Table 1-3-6A Profit and Loss Statements of the Perum ASDP

| | | | | : 1,000 Rp) |
|--------------------------|------------|------------|------------|-------------|
| | 1988 | 1989 | 1990 | 199: |
| Operating Revenues | | | | |
| Shipping Operation | 12,295,480 | 14,481,313 | 18,822,619 | 22,960,22 |
| Ternimal Operation | 3,563,563 | 5,143,735. | 7,194,975 | 9,195,21 |
| Total Operating Revenues | 15,859,043 | 19,625,048 | 26,017,594 | 32,155,43 |
| Operating Expenses | | | | |
| Personel Expenses | | | | |
| Personnel of Land | 2,543,064 | 3,100,381 | 3,852,913 | 4,671,37 |
| Personnel of Ship | 1,525,746 | 1,838,747 | 2,518,285 | 2,626,66 |
| Administration | 6,120,511 | 7,035,285 | 8,869,462 | 11,291,99 |
| Maintenance and Repair | 3,279,244 | 4,295,829 | 5,400,289 | 6,429,87 |
| Dereciation | 2,470,144 | 3,040,040 | 3,077,614 | 3,696,73 |
| Total Operating Expenses | 15,938,709 | 19,310,282 | 23,718,563 | 28,716,65 |
| Net Operating Income | -79,666 | 314,766 | 2,299,031 | 3,438,78 |
| Non-operating Revenues | 1,038,818 | 972,711 | 778,409 | 1,258,47 |
| Non-operating Expenses | 47,432 | 67,218 | 92,131 | 51,82 |
| Net Income Before Tax | 911,720 | 1,220,259 | 2,985,309 | 4,645,43 |
| Income Tax | 967 | 6,085 | 387 | |
| Other Tax | 10,696 | 42,533 | 55,872 | 59,91 |
| Net Income after Tax | 900,057 | 1,171,641 | 2,929,050 | 4,585,51 |
| Operation Ratio | 101% | 98% | 91% | 8 |
| Working Ratio | 85% | 83% | 79% | 7 |

(Source: the Perum ASDP)

| Assets | Year |
|---------------------------|------|
| Ship | 20 |
| Quay facilities | 25 |
| Ternimal Building | 25 |
| Electric Equipment | 5 |
| Ternimal Equipment | 10 |
| Terminal Installation | 10 |
| Lifesaving Tool | 10 |
| Work-tool, Repairing Tool | 5 |
| Office Equipment | 5 |

Table 1-3-7A Service Lives of Facilities

(Source: Perum ASDP)

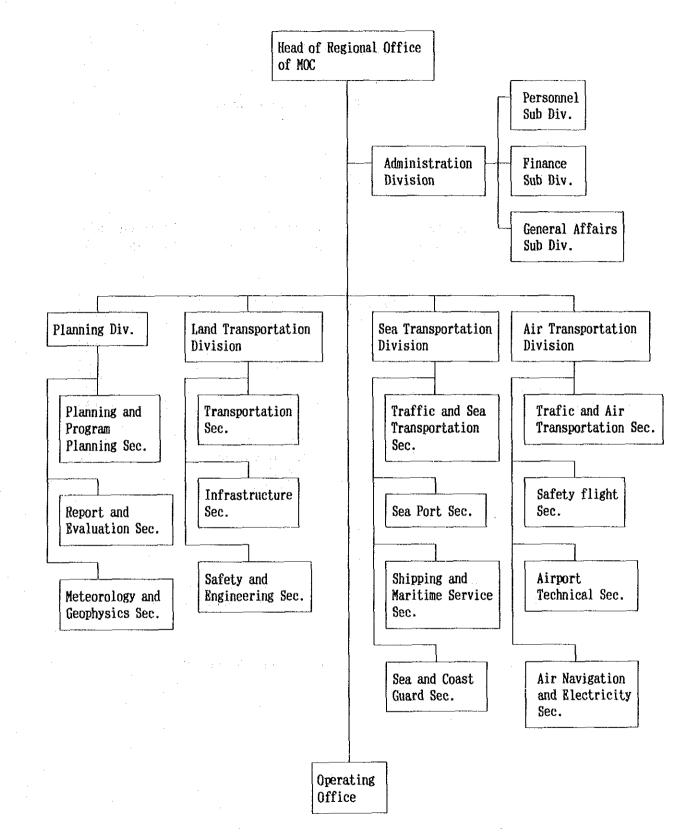
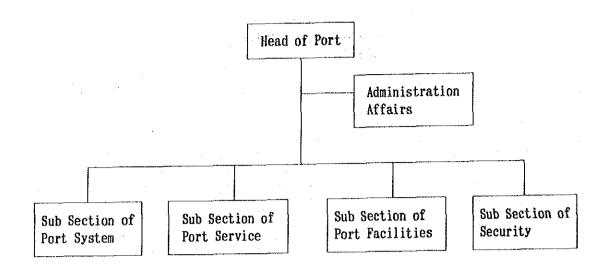
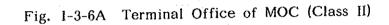


Fig. 1-3-5A Organization Chart of Regional Office of MOC





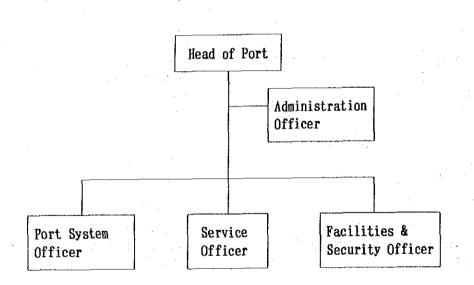


Fig. 1-3-7A Terminal Office of MOC (Class III)

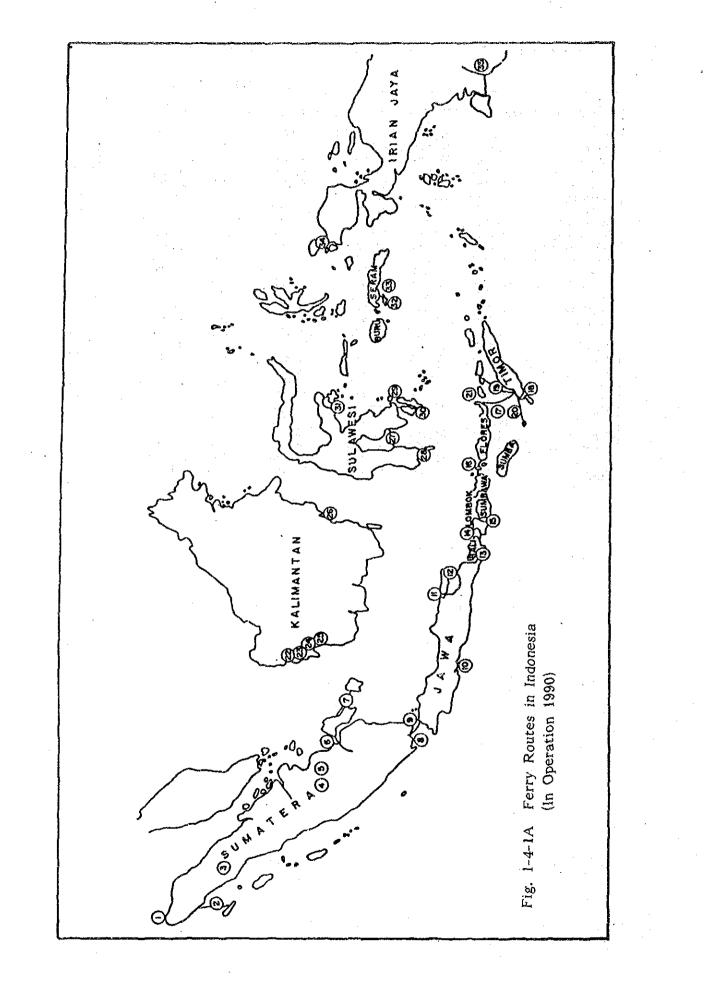
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Table 1-3-8A Revenues and Expenses in Port Offices in 1991

2000 A. 10

| <u> </u> | | | · · · · · · · · · · · · · · · · · · · | | (Unit: 1 | ,000 Rp.) | r |
|-------------|---------|-----------|---------------------------------------|-----------------|----------|-----------|--------|
| 1 | | | | <u>Expense</u> | ···· | | Expen. |
| Office | Revenue | Personnel | Operation | <u>Mainten.</u> | Trip | | Rever |
| Kali Pucang | 2,460 | 37,970 | 20,335 | 16,762 | 255 | 75,322 | 30. |
| Cilacap | 2,217 | 48,458 | 22,329 | 23,095 | 255 | 94,137 | 42. |
| Jangkar | 5,264 | 38,949 | 8,310 | 13,603 | 150 | 61.012 | 11 |
| Kali Anget | 5,000 | 37.014 | 8,106 | 10,997 | 150 | 56,267 | 11 |
| Neulaboh | 3,919 | 33,792 | 10,229 | 6,206 | 170 | 50,397 | 12 |
| Sinabang | 4,538 | 37,992 | 11,093 | 10,055 | 180 | 59,320 | 13 |
| Balohan | 10,347 | 51,441 | 11,194 | 15,900 | 300 | 78,835 | 1 7 |
| Palembang | 13,781 | 65,784 | 17,680 | 200 | 10,000 | 93,664 | 6 |
| Kayu Arang | 4,918 | 53,375 | 12,433 | 200 | 6,000 | 72,008 | 14 |
| Balik Papan | 37,294 | 24,635 | 7,492 | 12,683 | 200 | 45,010 | 1 |
| Panajan | 38,586 | 23,699 | 8,229 | 12,748 | 200 | 44,876 | 1 |
| Rasau Jaya | 5,000 | 34,321 | 7,030 | 0 | 0 | 41,351 | 8 |
| Bajoe | 65,911 | 60,223 | 27,617 | 23,435 | 150 | 111,425 | 1 |
| Bira | 5,312 | 44,506 | 11,043 | 23,061 | 130 | 78,740 | 14 |
| Pamatata | 5,028 | 43,992 | 7,641 | 22,369 | 130 | 74,132 | 14 |
| Kolaka | 44,919 | 49,116 | 16,964 | 24,292 | 150 | 90,522 | 2 |
| Toro Bulu | 2,160 | 21,017 | 6,316 | 13,550 | 250 | 41,133 | 19 |
| Tanpo | 6,732 | 21,877 | 5,390 | 10,650 | 250 | 38,167 | 5 |
| Poka | 5,000 | 29,209 | 7,142 | 9,438 | 400 | 46,189 | 9 |
| Galala | 5,000 | 35,803 | 7,262 | 9,318 | 400 | 52,783 | 10 |
| Kunimoa. | 30,166 | 33,827 | 9,272 | 47,350 | 400 | 90,849 | 3 |
| Waipirit | 28,670 | 29,175 | 9,680 | 15,735 | 400 | 54,990 | 1 |
| Alas | 36,950 | 32,455 | 14,275 | 8,826 | 220 | 55,776 | 1 |
| Loubok | 40,995 | 35,635 | 7,087 | 10,607 | 220 | 53,549 | 1 |
| Sape | 12,751 | 38,951 | 6,107 | 6,764 | 200 | 52,022 | 4 |
| Padang Bai | N.A. | 18,984 | 12,994 | 5,150 | 700 | 37,828 | |
| Lembar | R.A. | 62,206 | 67,968 | 31,225 | 300 | 161,699 | |
| Jambi | N.A. | 193,232 | 106,294 | 32,190 | . 0 | 331,716 | 1 |



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| Route | Distance | Trip/Day | Passen. | Cargo | Veh4 | Veh2 |
|-------------------------|----------|----------|---------|--------------|-------------|--------|
| | Mile | | 1,000 | 1,000 | 1,000 | 1,000 |
| 1 Saban-Malahayati | 15.0 | 2.00 | 85 | 8 | 3 | 5 |
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 22 | 2 | 0 | 0 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 326 | 22 | 29 | 8 |
| 4 Jambi City | | | | | | |
| 5 Jambi-Kualatungkal | | | 30 | 14 | 4 | 0 |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 81 | 2 | 2 | 1 |
| 7 Banka-Belitung | 110.0 | 0.57 | 28 | 1 | Ū | Ō |
| 8 Merak-Panjang | | | | •••••••••••• | ¦ | ······ |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 8,337 | 3,183 | 936 | 11 |
| 10 Cilacap-Kalipucang | 35.0 | 6.00 | 150 | 0 | 0 | Ū Ū |
| 11 Ujung-Kamal | 2.5 | 216.00 | 13,105 | 992 | 1,065 | 993 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 56 | 6 | 2 | 3 |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 2,692 | 1.890 | 658 | 67 |
| 14 Padangbai-Lember | 34.0 | 6.00 | 655 | 97 | 48 | 11 |
| 15 Lombok-Tano | 11.0 | 4.00 | 286 | 15 | 11 | 3 |
| 16 Sape-Komodo-Labuh. | 54.0 | 1.00 | 24 | 1 | 0 | 0 |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 46 | 1 | 1 | 0 |
| 18 Kupang-Rote | 40.0 | 1.14 | 71 | ī | 3 | Ū |
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 12 | 1 | 0 | 0 |
| 20 Kupang-Sabu | 115.0 | 0.29 | 9 | | Ō | 0 |
| 21 LarWaiwLewol. | 30.0 | 0.57 | 9 | Ō | 0 | 0 |
| 22 Pontianak City | | | 512 | 0 | 200 | 416 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 182 | 3 | 19 | 53 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 232 | 18 | 26 | 10 |
| 25 Sekura River Cr. | 0.5 | 20.00 | 60 | 1 | 9 | 24 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 152 | 15 | 33 | 12 |
| 27 Bajoe-Kolaka | 96.0 | 4.00 | 264 | 36 | 12 | 2 |
| 28 Bira-Pamatata | 17.0 | 2.00 | | 2 | 3 | 2 |
| 29 Toroburu-Tampo | 20.0 | 2.00 | 31 | 2 | 3 | 1 |
| 30 Baubau-Wara | 6.0 | 3.00 | 9 | <u>-</u> | Ū | Ū |
| 31 Luwuk-Sabang-Salakan | 46.0 | 1.00 | 9 | 1 | 0 | Ū |
| 32 Poka-Galala | 0.5 | 100.00 | 3, 788 | 5 | 559 | 311 |
| 33 Hunimua-Waipirit | 11.0 | 8.00 | 274 | 7 | 14 | 8 |
| 34 Sorong-Jeffman | 15.0 | 4.00 | 40 | 1 | 0 | Ũ |
| 35 Merauke-Bupul | | | 7 | <u> </u> | 0 | Û |
| or not owner Duput | | ····· | | ······ | ··········· | ······ |
| lotal | | | 31,625 | 6,330 | 3,642 | 1,942 |

Table 1-4-1A Ferry Transportation Volume in 1990

*Source: DGLT

Note:1. Veh.-4: Four-Wheeled Vehicle 2: Veh.-2: Two-Wheeled Vehicle

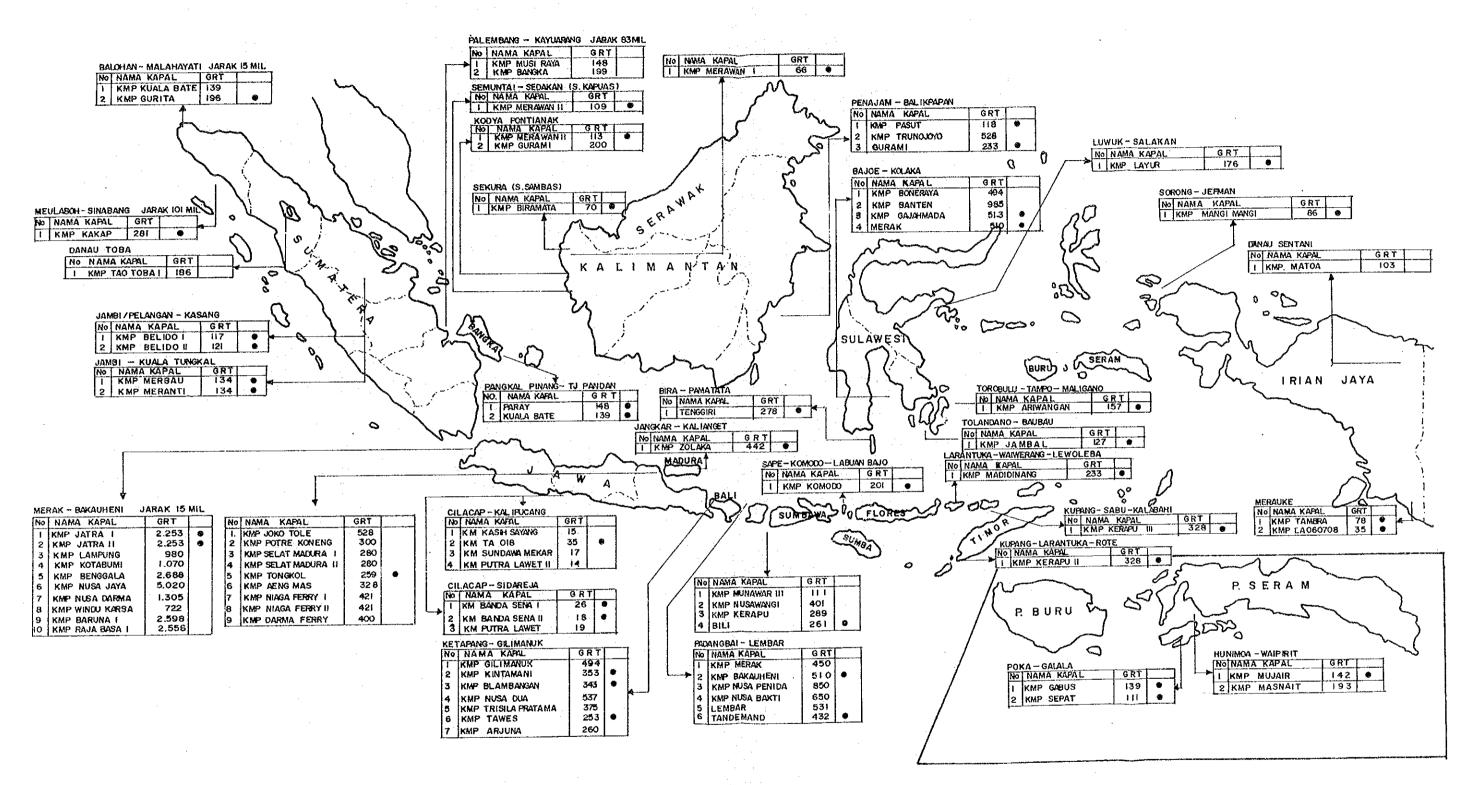


Fig. 1-4-2A Ferry Boats in Operation

: PERUM ASDP

| Route | Distance | Trip/Day | Passenger | Cargo | Veh4 | Veh2 |
|-------------------------|----------|----------|----------------|--------|-------|-------|
| | Mile | | 1,000 | 1,000 | 1,000 | 1,000 |
| 11 Ujung-Kamal | 2.5 | 216.00 | 13,105 | 992 | 1,065 | 993 |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 8,337 | 3, 183 | 936 | 11 |
| 32 Poka-Galala | 0.5 | 100.00 | 3, 788 | 5 | 559 | 311 |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 2,692 | 1,890 | 658 | 67 |
| 14 Padangbai-Lember | 34.0 | 6.00 | 655 | 97 | 48 | 11 |
| 22 Pontianak City | | | 512 | 0 | 200 | 416 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 326 | 22 | 29 | 8 |
| 15 Lombok-Tano | 11.0 | 4.00 | 286 | 15 | 11 | 3 |
| 33 Hunimua-Waipirit | 11.0 | 8,00 | 274 | 7 | 14 | 8 |
| 27 Bajoe-Kolaka | 96.0 | 4,00 | 264 | 36 | 12 | 2 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 232 | 18 | 26 | 10 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 182 | 3 | 19 | 53 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 152 | 15 | 33 | 12 |
| 10 Cilacap-Kalipucang | 35.0 | 6,00 | 150 | 0 | 0 | 0 |
| 1 Saban-Malahayati | 15.0 | 2,00 | 85 | 8 | 3 | 5 |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 81 | 2 | 2 | 1 |
| 18 Kupang-Rote | 40.0 | 1.14 | 71 | 1. | 3 | Ō |
| 25 Sekura River Cr. | 0.5 | 20.00 | 60 | 1 | 9 | 24 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 56 | 6 | 2 | 3 |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 46 | 1 | 1 | 0 |
| 34 Sorong-Jeffman | 15.0 | 4.00 | 40 | 1 | Ō | 0 |
| 28 Bira-Pamatata | 17.0 | 2.00 | 38 | 2 | 3 | 2 |
| 29 Toroburu-Tampo | 20.0 | 2.00 | 31 | 2 | 3 | 1 |
| 5 Jambi-Kualatungkal | | | 30 | • 14 | 4 | Ū |
| 7 Banka-Belitung | 110.0 | 0.57 | 28 | 1 | Ō | Ō |
| 16 Sape-Komodo-Labuh. | 54.0 | 1.00 | 24 | 1 | 0 | Ū |
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 22 | 2 | Û | 0 |
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 12 | 1 | Ũ | Ū |
| 30 Baubau-Wara | 6.0 | 3.00 | 9 | Ū | Û | 0 |
| 20 Kupang-Sabu | 115.0 | 0.00 | 9 | 1 | 0 | 0 |
| 21 Lar WaiwLewol. | 30.0 | 0.57 | 9 | Û. | 0 | Ö |
| 31 Luwuk-Sabang-Salakan | 46.0 | 1.00 | 9 | 1 | 0 | 0 |
| 35 Merauke-Bupul | 4V+ V | 1. 30 | 7 | Ū | 0 | 0 |
| 8 Merak-Panjang | | | | | | ····· |
| 4 Jambi City | · · · | | | | | |
| T UNING VIVJ | •••••• | | ••••• | •••••• | | |
| otal | ••••••• | ••••• | 31,62 <u>5</u> | 6,330 | 3,642 | 1,942 |

Table 1-4-2A Ranking of the Ferry Routes by the Passenger Volume of 1990

*Source: DGLT

Note: 1. Veh.-4: Four-Wheeled Vehicle 2. Veh.-2: Two-Wheeled Vehicle

.

| annai 1995 an amaran 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | | | <u> </u> | Veh4 | Veh2 |
|---|----------|------------|---------------------------------------|--|----------|----------|
| Route | Distance | Trip/Day | Passenger | Cargo | | 1,000 |
| | Mile | | 1,000 | 1,000 | 1,000 | 1,000 |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 8,337 | 3,183 | 936 | |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 2,692 | 1,890 | 658 | 67 |
| 11 Ujung-Kamal | 2.5 | 216.00 | 13,105 | 992 | 1,065 | 993 |
| 14 Padangbai-Lember | 34.0 | 6.00 | 655 | | 48 | 11 |
| 27 Bajoe-Kolaka | 96.0 | 4.00 | 264 | 36 | 12 | 2 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 326 | 22 | 29 | 8 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 232 | 18 | 26 | 10 |
| 15 Lombok-Tano | 11.0 | 4.00 | 286 | 15 | 11 | 3 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 152 | 15 | 33 | 12 |
| 5 Jambi-Kualatungkal | | | 30 | 14 | 4 | <u>0</u> |
| 1 Saban-Malahayati | 15.0 | 2.00 | 85 | 8 | 3 | 5 |
| 33 Hunimua-Waipirit | 11.0 | 8.00 | 274 | 7 | 14 | 8 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 56 | 6 | 2 | 3 |
| 32 Poka-Galala | 0.5 | 100.00 | 3,788 | 5 | 559 | 311 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 182 | 3 | 19 | 53 |
| 29 Toroburu-Tampo | 20.0 | 2.00 | 31 | 2 | 3 | 1 |
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 22 | 2 | 0 | 0 |
| 28 Bira-Pamatata | 17.0 | 2.00 | 38 | 2 | 3 | 2 |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 81 | 2 | 2 | 1 |
| 18 Kupang-Rote | 40.0 | 1.14 | 71 | 1 | 3 | 0 |
| 25 Sekura River Cr. | 0.5 | 20.00 | 60 | 1 | 9 | 24 |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 46 | 1 | 1 | 0 |
| 34 Sorong-Jeffman | 15.0 | 4.00 | 40 | 1 | 0 | 0 |
| 16 Sape-Komodo-Labuh. | 54.0 | 1.00 | 24 | 1 | 0 | 0 |
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 12 | 1 | 0 | 0 |
| 20 Kupang-Sabu | 115.0 | 0.29 | 9 | 1 | -0 | 0 |
| 31 Luwuk-Sabang-Salakan | | 1.00 | 9 | 1 | 0 | 0 |
| 7 Banka-Belitung | 110.0 | 0.57 | 28 | 1 | 0 | 0 |
| 10 Cilacap-Kalipucang | 35.0 | 6.00 | 150 | 0 | 0 | 0 |
| 21 LarWaiwLewol. | 30.0 | 0.57 | 9 | 0 | 0 | 0 |
| 35 Merauke-Bupul | 0010 | | 7 | 0 | 0 | 0 |
| 22 Pontianak City | | | 512 | Ũ | 200 | 416 |
| | 6.0 | 3.00 | 9 | Ũ | 0 | 0 |
| 30 Baubau-Wara | U.U. | 0.00 | ······ | ······································ | | <u> </u> |
| 4 Jambi City | | | ••••• | | | ļ |
| 8 Merak-Panjang | | | · · · · · · · · · · · · · · · · · · · | | f | <u> </u> |
| P 1 1 | | . , | 31,625 | 6,330 | 3,642 | 1.942 |
| lotal | <u> </u> | L | JI, 043 | 0,000 | 1 0,044 | 1 1.016 |

Table 1-4-3A Ranking of the Ferry Routes by the Cargo Volume of 1990

*Source: DGLT

-20-

| Route | Distance | Trip/Day | Passenger | Cargo | Veh4 | Veh2 |
|-------------------------|----------|----------|-----------|---|-------|--------------|
| | Mile | | 1,000 | 1,000 | 1,000 | <u>1,000</u> |
| 11 Ujung-Kamal | 2.5 | 216.00 | 13,105 | 992 | 1,065 | 993 |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 8,337 | 3,183 | 936 | 11 |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 2,692 | 1,890 | 658 | 67 |
| 32 Poka-Galala | 0.5 | 100.00 | 3,788 | 5 | 559 | 311 |
| 22 Pontianak City | | | 512 | 0 | 200 | 416 |
| 14 Padangbai-Lember | 34.0 | 6.00 | 655 | | 48 | 11 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 152 | 15 | 33 | 12 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 326 | 22 | 29 | 8 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 232 | 18 | 26 | 10 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 182 | 3 | 19 | 53 |
| 33 Hunimua-Waipirit | 11.0 | 8.00 | 274 | | 14 | 8 |
| 27 Bajoe-Kolaka | 96.0 | 4.00 | 264 | 36 | 12 | 2 |
| 15 Lombok-Tano | 11.0 | 4.00 | 286 | 15 | 11 | 3 |
| 25 Sekura River Cr. | 0.5 | 20.00 | 60 | 1 | 9 | 24 |
| 5 Jambi-Kualatungkal | | | 30 | 14 | 4 | (|
| 29 Toroburu-Tampo | 20.0 | 2.00 | 31 | 2 | 3 |]] |
| 1 Saban-Malahayati | 15.0 | 2.00 | 85 | 8 | 3 | 5 |
| 18 Kupang-Rote | 40.0 | 1.14 | 71 | 1 | 3 | (|
| 28 Bira-Pamatata | 17.0 | 2.00 | 38 | 2 | 3 | 2 |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 81 | 2 | 2 |] 1 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 56 | 6 | 2 | 3 |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 46 | 1 | 1 |) (|
| 7 Banka-Belitung | 110.0 | 0.57 | 28 | 1 | 0 | . (|
| 20 Kupang-Sabu | 115.0 | 0.29 | 9 | 1 | . 0 | (|
| 16 Sape-Komodo-Labuh. | 54.0 | 1.00 | 24 | 1 | 0 | (|
| 35 Merauke-Bupul | | | 7 | 0 | 0 | (|
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 12 | 1 | 0 | (|
| 34 Sorong-Jeffman | 15.0 | 4.00 | 40 | 1 | 0 | . (|
| 30 Baubau-Wara | 6.0 | 3.00 | 9 | 0 | 0 | (|
| 10 Cilacap-Kalipucang | 35.0 | 6.00 | 150 | 0 | 0 | (|
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 22 | 2 | 0 | (|
| 31 Luwuk-Sabang-Salakan | | 1.00 | 9 | 1 | 0 | (|
| 21 LarWaiwLewol. | 30.0 | 0.57 | 9 | 0 | 0 | (|
| 4 Jambi City | | | | | | |
| 8 Merak-Panjang | | | | | | |
| o mor our i carjonio | ••••• | | | • | [| 1 |
| otal | •••••• | | 31,625 | 6,330 | 3,642 | 1,942 |

Table 1-4-4A Ranking of the Ferry Routes by the Vehicle-4 Volume of 1990

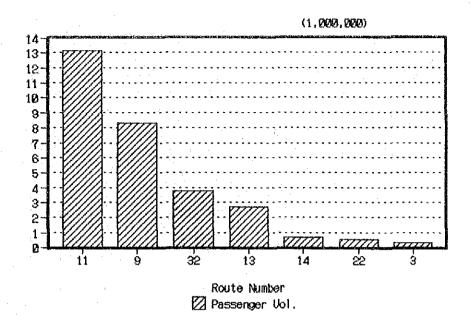
a.

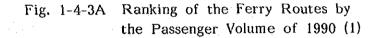
*Source: DGLT

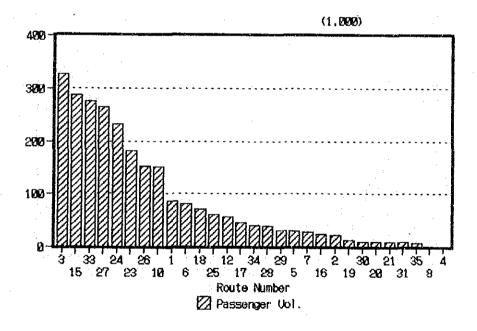
| Distance | Trip/Day | | | | Ven2 |
|-------------|--|---|---|---|---|
| 1 312.5 |] | Passenger 1,000 | Cargo 1.000 | Veh4 1,000 | 1,000 |
| Mile 2.5 | 216.00 | 13,105 | 992 | 1,065 | 993 |
| | | | | | 67 |
| | | | | | 311 |
| | | | | | 11 |
| | | | | [| 53 |
| | | | | | 10 |
| | | | | | 24 |
| | | | | | 12 |
| | | | | | 8 |
| | | | | | 8 |
| | | | | | 0 |
| | | | | | 11 |
| | | | | | |
| | | | | | 2 |
| | | | | | 3 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 5 |
| | | | | 2 | 1 |
| | | | | | 2 |
| 40.0 | | | | 2 | 3 |
| 20.0 | | | | | 1 |
| 40.0 | | | 1 | | 0 |
| 46.0 | | | 1 | | 0 |
| 54.0 | 1.00 | | 1 | | 0 |
| 101.0 | 0.57 | | 2 | | 0 |
| 137.0 | 0.57 | 12 | 1 | | 0 |
| 30.0 | 0.57 | 9 | 0 | 0 | 0 |
| | 0.57 | 46 | 1 | 1 | 0 |
| | 0.57 | 28 | 1 | 0 | 0 |
| | | | 1 | 0 | 0 |
| | s., | 7 | 0 | 0 | 0 |
| | 1.1 | | 0 | 200 | 416 |
| | | 30 | 14 | 4 | 0 |
| | | | | | |
| | | | | | 1 |
| | | | | [| 1 |
| | | 31, 625 | 6, 330 | 3,642 | 1.942 |
| | $\begin{array}{c} 4.0\\ 0.5\\ 15.0\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

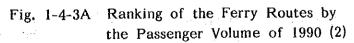
Table 1-4-5A Ranking of the Ferry Routes by the Number of Trip of 1990

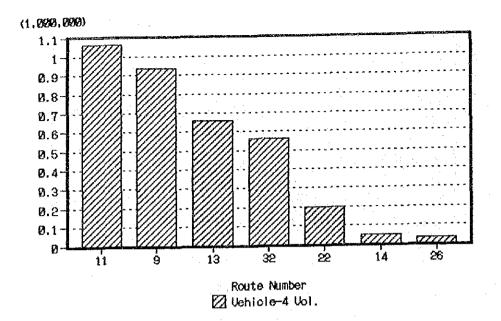
*Source: DGLT

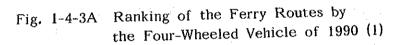


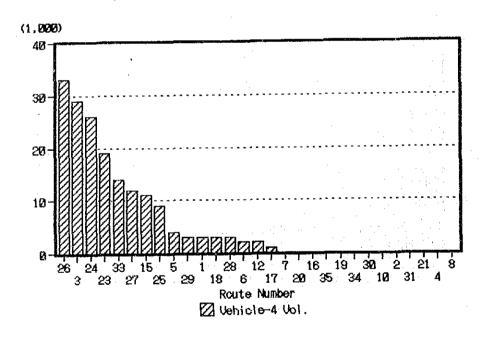


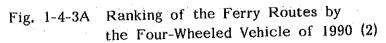












| Route | A(mile) | В | C | D= | E | F= |
|-------------------------|---------------------------------------|----------|----------------|-----------|-------------|-----------|
| | Distance | Trip/Day | Passenger | C/(B*365) | Cargo (ton) | E/ (B*365 |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 8,337,358 | 408 | 3, 183, 487 | 156 |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 2,692,358 | 68 | 1,889,992 | 48 |
| 14 Padangbai-Lember | 34.0 | 6.00 | 655,352 | 299 | 97,485 | 45 |
| 27 Bajoe-Kolaka | 96.0 | 4.00 | 264,303 | 181 | 36,344 | 25 |
| 11 Ujung-Kamal | 2.5 | 216.00 | 13, 105, 466 | 166 | 991,905 | 13 |
| 1 Saban-Malahayati | 15.0 | 2.00 | 85, 342 | 117 | 8,205 | 11 |
| 15 Lombok-Tano | 11.0 | 4.00 | 286,250 | 196 | 15,306 | 10 |
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 22,052 | 106 | 2,144 | 10 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 55, 526 | 76 | 6,408 | 9 |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 45,835 | 220 | 1,390 | 7 |
| 20 Kupang-Sabu | 115.0 | 0.29 | 8,921 | 86 | 672 | 6 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 326,098 | 89 | 22, 336 | 6 |
| 7 Banka-Belitung | 110.0 | 0.57 | 28,068 | 135 | 1,209 | 6 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 151,928 | 42 | 14,947 | 4 |
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 12,209 | 59 | 685 | 3 |
| 28 Bira-Pamatata | 17.0 | 2.00 | 37,954 | 52 | 2,191 | 3 |
| 16 Sape-Komodo-Labuh. | 54.0 | 1.00 | 23,700 | 65 | 1.074 | 3 |
| 31 Luwuk-Sabang-Salakan | | 1.00 | 9,874 | 27 | 1,014 | 3 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 232, 318 | 32 | 18,072 | 2 |
| 33 Hunimua-Waipirit | 11.0 | 8.00 | 274, 320 | 94 | 7,112 | 2 |
| 29 Toroburu-Tampo | 20.0 | 2.00 | 30, 589 | 42 | 1,761 | 2 |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 81,119 | 111 | 1,567 | 2 |
| 18 Kupang-Rote | 40.0 | 1.14 | 70,612 | 169 | 685 | 2 |
| 21 LarWaiwLewol. | 30.0 | 0.57 | 9,300 | 45 | 316 | 2 |
| 34 Sorong-Jeffman | 15.0 | 4.00 | 39,771 | 27 | 1,121 | 1 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 182,275 | 17 | 2,617 | 0 |
| 32 Poka-Galala | 0.5 | 100.00 | 3,788,244 | 104 | 5,076 | . 0 |
| 25 Sekura River Cr. | 0.5 | 20.00 | 60,003 | 8 | 816 | 0 |
| 10 Cilacap-Kalipucang | 35.0 | 6.00 | 150,079 | 69 | 134 | |
| 30 Baubau-Wara | 6.0 | 3.00 | 8,784 | 8 | 14 | : 0 |
| 4 Jambi City | | 0.00 | 0,104 | | | |
| 5 Jambi-Kualatungkal | | | 29,273 | ; | 14,168 | |
| 8 Merak-Panjang | | | 0 | | 0 | |
| 22 Pontianak City | ***** | | 511,761 | | 0 | |
| 35 Merauke-Bupul | | | 7,106 | | 101 | |
| OF BELGUNG DUPUL | | | | | 101 | |
| lotal | · · · · · · · · · · · · · · · · · · · | | 31,624,598 | 104 | 6,330,354 | : : 13 |
| 10001 | L | | 1 01, 064, 030 | 101 | 1 0,000,004 | |

Table 1-4-6ATransportation Volume per One Ferry's Trip in 1990 (1)

| a a tradition of the state of the | | | | | T T | J= |
|---|----------|-------------------------|-----------|------------|----------------|------------|
| Route | A(mile) | B | G | | I Vahiolo 9 | 1/ (B*365) |
| | Distance | Trip/Day | Vehicle-4 | G/ (B*365) | Vehicle-2 | 1/ (D*303) |
| 9 Merak-Bakauheni | 15.0 | 56.00 | 935, 772 | 46 | 11,348 | |
| 14 Padangbai-Lember | 34.0 | 6.00 | 48,415 | 22 | 10,872 | 5 |
| 13 Ketapang-Gilimanuk | 4.0 | 108.00 | 658,315 | 17 | 66,959 | 2 |
| 32 Poka-Galala | 0.5 | 100.00 | 559,092 | 15 | 310,892 | 9 |
| 11 Ujung-Kamal | 2.5 | 216.00 | 1,054,529 | 14 | 993, 126 | 13 |
| 26 Penajam-Balikpapan | 8.0 | 10.00 | 33,340 | .9 | 12,260 | 3 |
| 27 Bajoe-Kolaka | 96.0 | 4.00 | 12,240 | 8 | 2,300 | 2 |
| 15 Lombok-Tano | 11.0 | 4.00 | 11, 532 | 8 | 3,241 | 2 |
| 3 Ajibata-Tomok | 3.0 | 10.00 | 28,554 | 8 | 7,982 | 2 |
| 18 Kupang-Rote | 40.0 | 1.14 | 2,667 | 6 5 | 0 | 0 |
| 33 Hunimua-Waipirit | 11.0 | 8.00 | 14,272 | | 7,552 | 3 |
| 28 Bira-Pamatata | 17.0 | 2.00 | 3,413 | 5 | 2,320 | 3 |
| 29 Toroburu-Tampo | 20.0 | 2.00 | 2,922 | 4 | 887 | <u> </u> |
| 1 Saban-Malahayati | 15.0 | 2.00 | 2,867 | 4 | 5,008 | 7 |
| 24 Semuntai River Cr. | 0.5 | 20.00 | 26,077 | 4 | 9,721 | <u> </u> |
| 6 Palemban-Kayuarang | 83.0 | 2.00 | 2,353 | 3 | 650 | <u> </u> |
| 17 Kupang-Larantuka | 120.0 | 0.57 | 500 | 2 | 0 | 0 |
| 12 Jankar-Kalianget | 40.0 | 2.00 | 1,578 | 2 | 3,319 | 5 |
| 7 Banka-Belitung | 110.0 | 0.57 | 416 | 2 | 0 | 0 |
| 23 Kartiasa River Cr. | 0.5 | 30.00 | 19,017 | 2 | 53, 481 | 0 5 |
| 20 Kupang-Sabu | 115.0 | 0.29 | 178 | 2 | . | 0 |
| 21 LarWaiwLewol. | 30.0 | 0.57 | 322 | 2 | 0 | 0 |
| 16 Sape-Konodo-Labuh. | 54.0 | 1.00 | 449 | 1 | 0 | 0 |
| 25 Sekura River Cr. | 0.5 | 20.00 | 8,641 | 1 | 23,559 | 3 |
| 2 Melaboh-Sinabang | 101.0 | 0.57 | 203 | 1 | 210 | 1 |
| 19 Kupang-Kalabahi | 137.0 | 0.57 | 121 | 1 | 0 | 0 |
| 31 Luwuk-Sabang-Salakan | 46.0 | 1.00 | 111 | Ō | 219 | 1 |
| 30 Baubau-Wara | 6.0 | 3.00 | 232 | 0 | 250 | 0 |
| 34 Sorong-Jeffman | 15.0 | 4.00 | 0 | Û | 0 | 0 |
| 10 Cilacap-Kalipucang | 35.0 | 4.00 6.00 | Ŭ. | 0 | 135 | Ū |
| 22 Pontianak City | 30.0 | 0.00 | 199,866 | | 416, 122 | v |
| | | | 4,106 | | | •••••• |
| 5 Jambi-Kualatungkal | ····· | ••••• | 4,100 | | 0 | • |
| 8 Merak-Panjang | | | <u> </u> | <u>.</u> | . | <u>.</u> |
| 4 Jambi City | | | <u>^</u> | | Ð | |
| 35 Merauke-Bupul | | | 0 | | <u>v</u> | ····· |
| | | | 0.040.100 | · | 1 049 429 | 2 |
| Total | | | 3,642,100 | 6 | 1,942,413 | |

Table 1-4-6A Transportation Volume per One Ferry's Trip in 1990 (2)

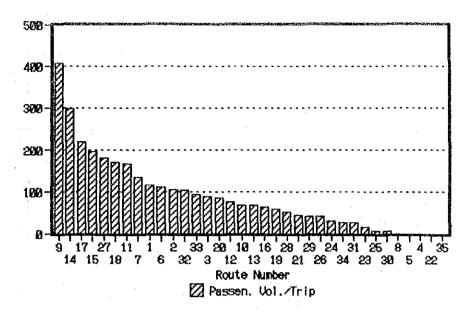


Fig. 1-4-7A Passenger Vol./One Ferry Trip

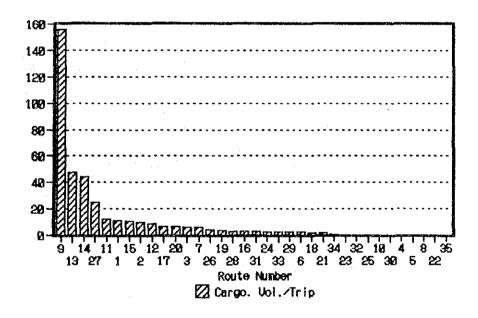


Fig. 1-4-8A Cargo's Vol./One Ferry Trip

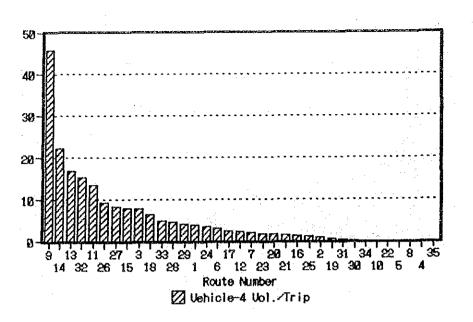


Fig. 1-4-9A Vehicle-4's Vol./Trip

| Table 1-4-7A | Cargo | Volume | by | Commodity, | by | Transportation | Mode |
|--------------|-------|--------|----|------------|----|----------------|------|

| Conmod. | Fei | rry | | Trans. | Commodity |
|---------|--------|--------|--------|---------------------------------------|---|
| Code | 1,000T | % | 1,000T | % | · · · · · · · · · · · · · · · · · · · |
| | | | | | |
| 010 | 887 | 22.88 | 703 | 8.28 | Animal/Raw Mat. of Food |
| 020 | 601 | 15.50 | 809 | 9.53 | Food/Drink/Raw Mat. of Cigarette |
| 030 | 184 | 4.75 | 124 | 1.46 | Raw Mat. from Animal/Plant |
| 040 | 114 | 2.94 | 87 | 1.02 | Raw Mat. of Mineral |
| 050 | 240 | 6:19 | 234 | 2.76 | Processing Product of Animal/Plant |
| 060 | 106 | 2.73 | 0 | 0.00 | Process. Prod. of Mineral |
| 070 | 168 | 4.33 | 386 | 4.55 | Process. Prod. of Iron/Steel/Other Metal |
| 080 | 152 | 3.92 | 0 | 0.00 | Chemicals-Material/Product |
| 090 | 47 | 1.21 | 240 | 2.83 | Heavy Instrument/Machine |
| 100 | 7 | 0.18 | 0 | 0.00 | Electoronic/Special Instrum./Watch/Music Instrum. |
| 110 | 80 | 2.06 | 13 | 0.15 | Housewares/Personal Goods |
| 120 | 87 | 2.24 | 203 | 2.39 | Miscellany Goods |
| 130 | 654 | 16.87 | 2,634 | 31.02 | General Cargo |
| 201 | 125 | 3.22 | 529 | 6.23 | Rice in Various Form |
| 202 | 14 | 0.36 | 0 | 0.00 | Coconut Oil |
| 203 | 24 | 0.62 | 87 | 1.02 | Salt |
| 204 | 119 | 3.07 | 799 | 9.41 | Cement |
| 205 | 4 | 0.10 | 0 | 0.00 | Coal/By-Product |
| 206 | 0 | 0.00 | 1 | 0.01 | |
| 207 | 1 | 0.03 | 3 | 0.04 | Process. Prod. of Oil: Gasoline/ |
| 208 | 1 | 0.03 | 0 | 0.00 | Diesel Oil |
| 210 | 4 | 0.10 | 0 | 0.00 | Grease |
| 212 | 13 | 0.34 | 0 | 0.00 | Petroleum Gas/Other Hydrogen Gas |
| 213 | 0 | 0.00 | 5 | 0.06 | |
| 214 | 8 | 0.21 | 13 | 0.15 | Asphalt |
| 215 | 48 | 1.24 | 1,146 | | Natural/Processed Furtilizer |
| 216 | 169 | 4.36 | 475 | 5.59 | Natural Timber |
| 217 | 20 | 0.52 | 0 | 0.00 | Raw Rubber |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| Total | 3.877 | 100.00 | 8,491 | 100.00 | |

Source: O-D Survey Study, 1988 of MOC

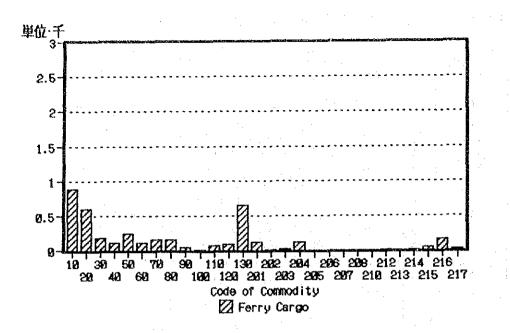
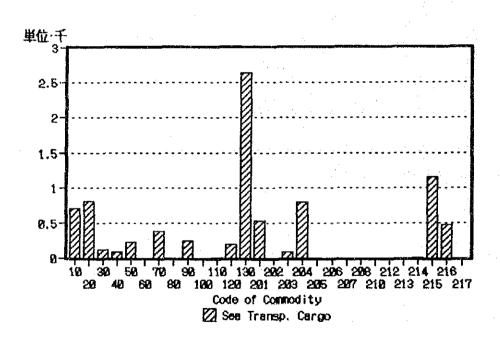


Fig. 1-4-10A Cargo Volume by Commodity/Mode (1,000ton)



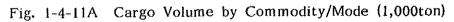


Table 1-4-8A Seasonal Variation of the Ferry Passenger's Volume of 1990

| | | | (*1,000) | | | |
|-------|-----------|-----------|-----------|----------------|-----------|---------|
| Month | Meraku~Ba | kaheuni | Hunimua~W | <u>aipirit</u> | Kupang~La | rantuka |
| : . | Demand | Variation | Demand | Var. | Demand | Var. |
| 1 | 619 | 0.91 | 33 | 1.13 | 2.92 | 0.95 |
| 2 | 561 | 0.83 | 29 | 0.99 | 1.82 | 0.59 |
| 3 | 598 | 0.88 | 32 | 1.10 | 2.71 | 0.88 |
| 4 | 863 | 1.27 | 31 | 1.06 | 2.34 | 0.76 |
| 5 | 639 | 0.94 | 28 | 0.96 | 2.23 | 0.73 |
| 6 | 938 | 1.38 | 32 | 1.10 | 4.66 | 1.52 |
| 7 | 919 | 1.36 | 31 | 1.06 | 5.64 | 1.83 |
| 8 | 609 | 0.90 | 24 | 0.82 | 3.57 | 1.16 |
| 9 | 581 | 0.86 | 25 | 0.86 | 3.40 | 1.11 |
| 10 | 604 | 0.89 | 24 | 0.82 | 2.48 | 0.81 |
| 11 | 531 | 0.78 | 28 | 0.96 | 2.54 | 0.83 |
| 12 | 675 | 1.00 | 33 | 1.13 | 2.59 | 0.84 |
| | 1 | | | | | |
| Total | 8137 | 12.00 | 350 | 12.00 | 36.90 | 12.00 |

| Month | Bajoe~Ko | laka | Pankalbala | m~Tanjung. |
|-------|----------|-------|------------|------------|
| | Demand | Var. | Demand | Var. |
| 1 | 26 | 1.02 | 1.15 | 0.91 |
| 2 | 24 | 0.94 | 1.30 | 1.03 |
| 3 | 24 | 0.94 | 1.39 | 1.10 |
| 4 | 25 | 0.98 | 2.49 | 1.98 |
| 5 | 23 | 0.90 | 1.00 | 0.79 |
| 6 | 29 | 1.14 | 0.00 | 0.00 |
| . 7 | 35 | 1.38 | 1.75 | 1.39 |
| 8 | 25 | 0.98 | 1.36 | 1.08 |
| 9 | 21 | 0.83 | 0.75 | 0.60 |
| 10 | 24 | 0.94 | 0.00 | 0.00 |
| 11 | 23 | 0.90 | 0.29 | 0.23 |
| 12 | 26 | 1.02 | 1.72 | 1.37 |
| | | |] | |
| Total | 305 | 12.00 | 13.20 | 10.00 |

Source: Regional Office, DGLT

.

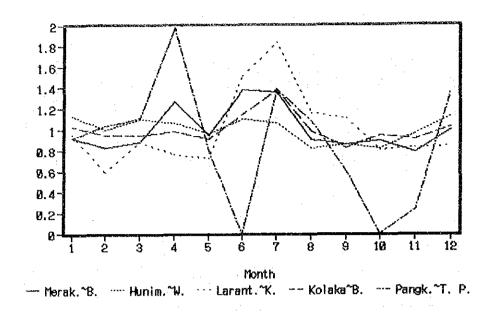


Fig. 1-4-12A Seasonal Variation of Ferry Passenger's Transportation Volume

| 0-D | Λ | В | C | D | E | F | Total |
|-------|-------------|------------|-----------|---------|----------|---------|------------|
| A | 228,851 | 2,948,314 | 29,432 | 2,444 | 4,276 | 2,444 | 3,215,761 |
| В | 3, 570, 845 | 11,485,708 | 1,470,617 | 161 | 671 | 2,399 | 16,530,401 |
| С | 9,225 | 1,476,578 | 666,070 | 1,117 | 342 | 319 | 2,153,651 |
| D | 4,442 | 4,530 | 3,715 | 124,466 | 916 | 89 | 138,158 |
| E | 8,324 | 1,458 | 1,514 | 162 | 291,198 | 798 | 303,454 |
| F | 1,894 | 6,119 | <u> </u> | 0 | 2,135 | 147,707 | 157,855 |
| Total | 3,823,581 | 15,922,707 | 2,171,348 | 128,350 | 299, 538 | 153,756 | 22,499,280 |

| Table 1- | 4-9A (| Q-O | of | Ferry | Passenger |
|----------|--------|-----|----|-------|-----------|
|----------|--------|-----|----|-------|-----------|

Source: O-D Study 1988, MOC

Table 1-4-10A O-D of Ferry Passenger (Percentage)

| 0-D | A | В | C | D | E | F | Total |
|-------|-------|-------|-------------|------|------|------|--------|
| A | 1.02 | 13.10 | 0.13 | 0.01 | 0.02 | 0.01 | 14.29 |
| В | 15.87 | 51.05 | 6.54 | 0.00 | 0.00 | 0.01 | 73.47 |
| С | 0.04 | 6.56 | 2.96 | 0.00 | 0.00 | 0.00 | 9.57 |
| D | 0.02 | 0.02 | 0.02 | 0.55 | 0.00 | 0.00 | 0.61 |
| Е | 0.04 | 0.01 | 0.01 | 0.00 | 1.29 | 0.00 | 1.35 |
| F | 0.01 | 0.03 | 0.00 | 0.00 | 0.01 | 0.66 | 0.70 |
| Total | 16.99 | 70.77 | <u>9.65</u> | 0.57 | 1.33 | 0.68 | 100.00 |

Source: O-D Study 1988, MOC

Table 1-4-11A O-D of Conventional Vessel's Passenger

| 0-D | A | В | С | D | E | F | Total |
|-------|---------|---------|----------|---------|-----------|---------|-----------|
| A | 622,623 | 127,974 | 6, 332 | 16, 790 | 15,411 | 2,503 | 791,633 |
| В | 116,946 | 109,307 | 15,607 | 160,114 | 142,288 | 51,117 | 595,379 |
| С | 6,471 | 17,161 | 124, 489 | 8,424 | 31,927 | 1,249 | 189,721 |
| Ð | 17,308 | 155,707 | 7,412 | 324,926 | 100,503 | 447 | 606, 303 |
| Е | 13,002 | 268,117 | 30,408 | 119,759 | 663,102 | 89,399 | 1,183,787 |
| F | 1,993 | 44,733 | 1,168 | 454 | 88,497 | 468,905 | 605,750 |
| Total | 778,343 | 722,999 | 185, 416 | 630,467 | 1,041,728 | 613,620 | 3,972,573 |

Source: O-D Study 1988, MOC

Table 1-4-12A O-D of Conventional Vessel's passenger (Percentage)

| 0-D | A | В | С | D | Е | F | Total |
|-------|-------|-------|------|-------|-------|-------|--------|
| A | 15.67 | 3.22 | 0.16 | 0.42 | 0.39 | 0.06 | 19.93 |
| В | 2.94 | 2.75 | 0.39 | 4.03 | 3.58 | 1.29 | 14.99 |
| C | 0.16 | 0.43 | 3.13 | 0.21 | 0.80 | 0.03 | 4.78 |
| D | 0.44 | 3.92 | 0.19 | 8.18 | 2.53 | 0.01 | 15.26 |
| Ē | 0.33 | 6.75 | 0.77 | 3.01 | 16.69 | 2.25 | 29.80 |
| F | 0.05 | 1.13 | 0.03 | 0.01 | 2.23 | 11.80 | 15.25 |
| Total | 19.59 | 18.20 | 4.67 | 15.87 | 26.22 | 15.45 | 100.00 |

Source: O-D Study 1988, MOC

| | Total | F | E | D | С | В | A | 0-D |
|---------------|--------|----------|---------|---------|--|-------------|--|---|
| | 1,566, | 3, 792 | 10,978 | 35, 364 | 38,559 | 929,867 | 548,413 | A |
| | 3,477, | 144,996 | 170,503 | 553.654 | 478.741 | 1,299,851 | 829,818 | · R |
| 5, 252 | | 6,547 | 32,723 | 8.229 | 197, 381 | 514,538 | 15,834 | р С |
| 1,995 | 961, | 21,989 | 31, 330 | 339.114 | 10,062 | 522,946 | 36, 554 | <u>v</u> |
| <u>7, 151</u> | 427, | 37,690 | 133,600 | 24,988 | 41,564 | 180,848 | 8,461 | <u>y</u> G |
| 1,677 | 371, | 190, 491 | 29,077 | 5,745 | 4,978 | 133,599 | 7,787 | <u> </u> |
| 0,611 | 7,580, | 405, 505 | 408,211 | | 771, 285 | 3, 581, 649 | 1,446,867 | Total |
| | | | | | a an ann an a | | the second s | and the second se |
| | | | 1 · · · | | | | 5 2 Alaq 10 | 500 001 |
| | | | <u></u> | | [111,205_] | | 0-D Study 19 | and the second se |

Table 1-4-13A O-D of Air Passenger

Table 1-4-14A O-D of Air Passenger (Percentage)

| <u>0-n</u> | A | B | С | D | Е | F | Total |
|------------|--------------|-------|-------|-------|------|------|--------|
| <u> </u> | 7.23 | 12.27 | 0.51 | 0.47 | 0.14 | 0.05 | 20.67 |
| R | 10.95 | 17.15 | 6.32 | 7.30 | 2.25 | 1.91 | 45.87 |
| <u> </u> | 0.21 | 6.79 | 2.60 | 0.11 | 0.43 | 0.09 | 10.23 |
| n v | 0.48 | 6.90 | 0.13 | 4.47 | 0.41 | 0.29 | 12.69 |
| F | 0,10 0 11 | 2.39 | 0.55 | 0.33 | 1.76 | 0.50 | 5.63 |
| <u>г</u> | 0.11 | 1.76 | 0.07 | 0.08 | 0.38 | 2.51 | 4.90 |
| Total | 19.09 | 47.25 | 10.17 | 12.76 | 5.38 | 5.35 | 100.00 |

Source: O-D Study 1988, MOC

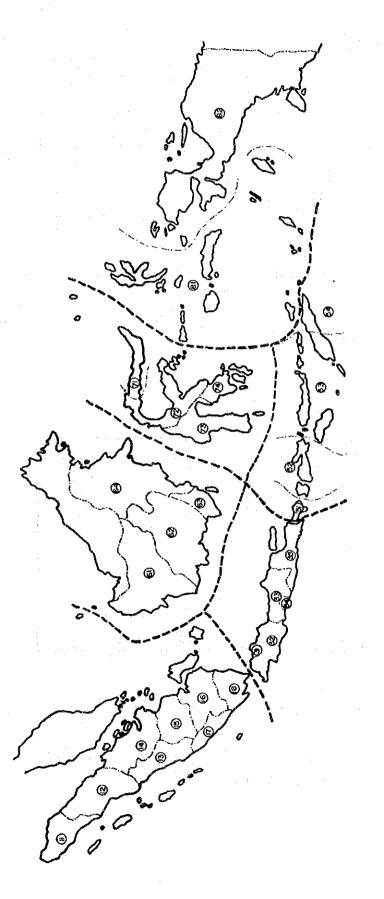


Fig. 1-4-13A Area Code of O-D Study

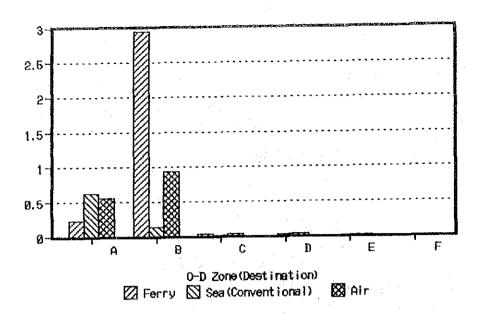


Fig. 1-4-14A Passenger's O-D by Each Mode From "A" Zone (1,000,000)

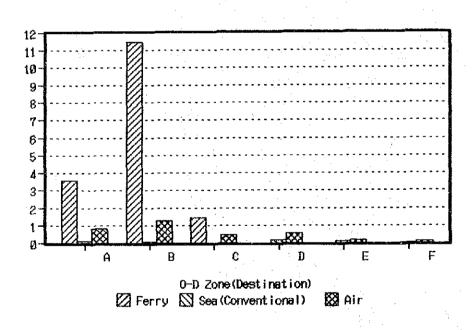


Fig. 1-4-15A Passenger's O-D by Each Mode From "B" Zone (1,000,000)

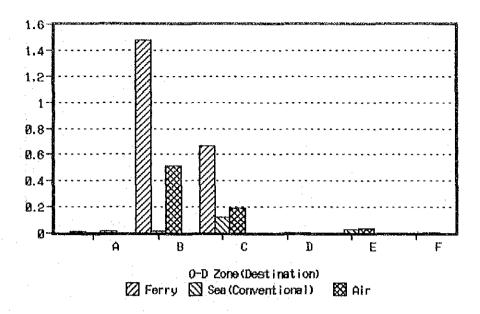


Fig. 1-4-16A Passenger's O-D by Each Mode From "C" Zone (1,000,000)

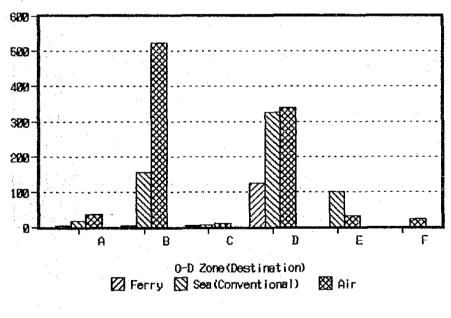
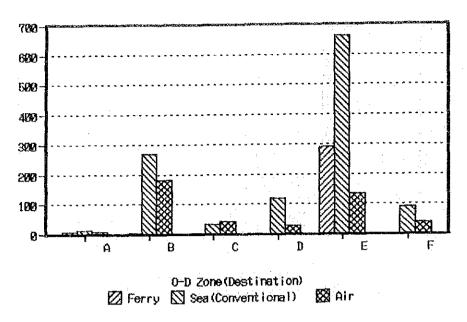
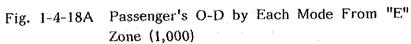


Fig. 1-4-17A Passenger's O-D by Each Mode From "D" Zone (1,000)





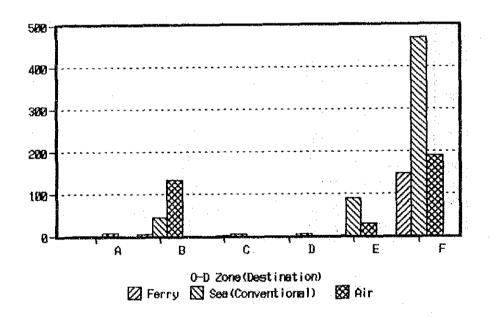


Fig. 1-4-19A Passenger's O-D by Each Mode From "F" Zone (1,000)

| 0-D | A | B | C | D | Е | F | Total |
|-------|-----------|-----------|---------|---|--------|---|-----------|
| A | 0 | 1,215,655 | 1,012 | 0 | 511 | 0 | 1,217,178 |
| В | 1,184,024 | 535,059 | 495,844 | 0 | 184 | 0 | 2,215,111 |
| C | 0 | 386,632 | 22,096 | 0 | 0 | 0 | 408,728 |
| D | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | 0 | 0 | 0 | 0 | 40,240 | 0 | 40,240 |
| F | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1,184,024 | 2,137,346 | 518,952 | 0 | 40,935 | 0 | 3,881,257 |

Table 1-4-15A Ferry Cargo's O-D

Source: 0-D Study 1988, MOC

Table 1-4-16A Ferry Cargo's O-D (Percentage)

| 0-D | A | В | C | D | E | F | Total |
|-----------|---------------|--------|-------|---------------------------------------|------|------|--------|
| Α | 0.00 | 31.32 | 0.03 | 0.00 | 0.01 | 0.00 | 31.36 |
| B | 30.51 | 13.79 | 12.78 | 0.00 | 0.00 | 0.00 | 57.07 |
| C | 0.00 | 9.96 | 0.57 | 0.00 | 0.00 | 0.00 | 10.53 |
| D | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| E | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 | 0.00 | 1.04 |
| F | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 30.51 | 55.07 | 13.37 | 0.00 | 1.05 | 0.00 | 100.00 |
| Source: (| 0-D Study 198 | 8, MOC | | · · · · · · · · · · · · · · · · · · · | | | |

Table 1-4-17A Sea Transportation Cargo's O-D

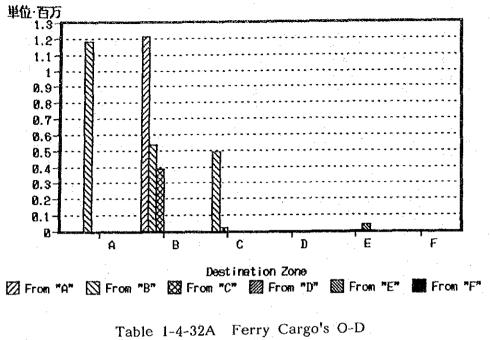
| Tab | | | | | D | |
|------------|---|---|--|--|---|---|
| A | В | C | D | E | F | Total |
| 15,648,700 | 18,061,900 | 18,300 | 959,000 | 272,900 | 109,100 | 35,069,900 |
| 6,844,800 | 4,620,500 | 477,500 | 2,098,100 | 1,494,400 | 614,700 | 16, 150, 000 |
| 19,900 | 447,000 | 99,700 | 8,800 | 12,800 | 2,800 | 591,000 |
| 1,276,500 | 8,235,500 | 674,000 | 5,909,300 | 2,738,200 | 1,034,900 | 19,868,400 |
| 58,100 | 754,900 | 581,200 | 1,210,000 | 2,169,500 | 478,900 | 5,252,600 |
| 2,200 | 1,414,700 | 10,600 | 247,800 | 2,228,700 | 1,053,400 | 4,957,400 |
| 23,850,200 | 33, 534, 500 | 1,861,300 | 10,433,000 | 8,916,500 | 3,293,800 | 81,889,300 |
| | A 15, 648, 700 6, 844, 800 19, 900 1, 276, 500 58, 100 2, 200 | A B 15, 648, 700 18, 061, 900 6, 844, 800 4, 620, 500 19, 900 447, 000 1, 276, 500 8, 235, 500 58, 100 754, 900 | A B C 15,648,700 18,061,900 18,300 6,844,800 4,620,500 477,500 19,900 447,000 99,700 1,276,500 8,235,500 674,000 58,100 754,900 581,200 2,200 1,414,700 10,600 | A B C D 15, 648, 700 18, 061, 900 18, 300 959, 000 6, 844, 800 4, 620, 500 477, 500 2, 098, 100 19, 900 447, 000 99, 700 8, 800 1, 276, 500 8, 235, 500 674, 000 5, 909, 300 58, 100 754, 900 581, 200 1, 210, 000 2, 200 1, 414, 700 10, 600 247, 800 | A B C D E 15,648,700 18,061,900 18,300 959,000 272,900 6,844,800 4,620,500 477,500 2,098,100 1,494,400 19,900 447,000 99,700 8,800 12,800 1,276,500 8,235,500 674,000 5,909,300 2,738,200 58,100 754,900 581,200 1,210,000 2,169,500 2,200 1,414,700 10,600 247,800 2,228,700 | 6,844,8004,620,500477,5002,098,1001,494,400614,70019,900447,00099,7008,80012,8002,8001,276,5008,235,500674,0005,909,3002,738,2001,034,90058,100754,900581,2001,210,0002,169,500478,9002,2001,414,70010,600247,8002,228,7001,053,400 |

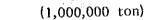
Source: O-D Study 1988, MOC

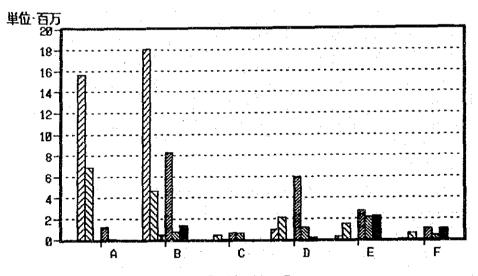
Table 1-4-18A Sea Transportation Cargo's O-D (Percentage)

| 0-D | Δ | R | C | D | । ज | F | Total |
|----------|----------|-------|------|-------|-------|------|--------|
| <u> </u> | <u> </u> | 22.06 | 0.02 | 1.17 | 0.33 | 0.13 | 42.83 |
| B | 8.36 | 5.64 | 0.58 | 2.56 | 1.82 | 0.75 | 19.72 |
| C | 0.02 | 0.55 | 0.12 | 0.01 | 0.02 | 0.00 | 0.72 |
| D | 1.56 | 10.06 | 0.82 | 7.22 | 3.34 | 1.26 | 24.26 |
| E | 0.07 | 0.92 | 0.71 | 1.48 | 2.65 | 0.58 | 6.41 |
| F | 0.00 | 1.73 | 0.01 | 0.30 | 2.72 | 1.29 | 6.05 |
| Total | 29.12 | 40.95 | 2.27 | 12.74 | 10.89 | 4.02 | 100.00 |

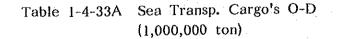
Source: 0-D Study 1988, MOC











Origin: 8171-Kod. Ambon

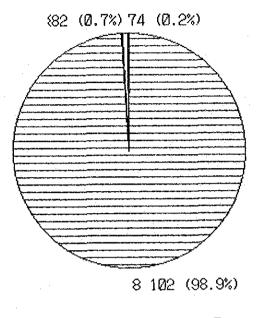
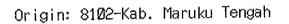


Fig. 1-4-20A O-D of Ferry Passenger



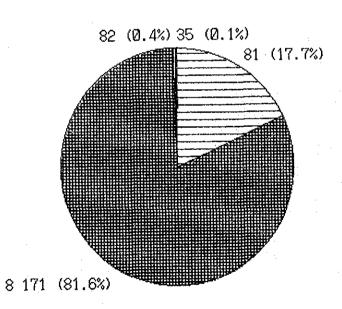
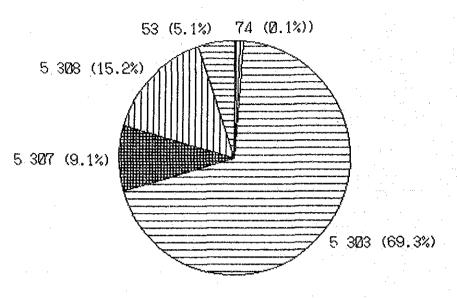
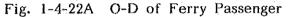


Fig. 1-4-21A O-D of Ferry Passenger

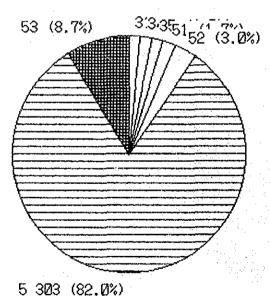
| Code | Province |
|------|----------------------|
| 11 | Daerah Istimewa Aceh |
| 12 | Sumatera Utara |
| 13 | Sumatera Barat |
| 14 | Riau |
| 15 | Jambi |
| 16 | Sumatera Selatan |
| 17 | Bengkulu |
| 18 | Lampung |
| 31 | DKI JAYA |
| 32 | Jawa Barat |
| 33 | Jawa Tengah |
| 34 | DI Yogyakarta |
| 35 | Jawa Timur |
| 51 | Bali |
| 52 | Nusa Tenggara Barat |
| 53 . | Nusa Tenggara Timur |
| 54 | Timor Timur |
| 61 | Kalimantan Barat |
| 62 | Kalimantan Tengha |
| 63 | Kalimantan Selatan |
| 64 | Kalimantan Timur |
| 71 | Sulawesi Utara |
| 72 | Sulawesi Tengah |
| 73 | Sulawesi Selatan |
| 74 | Sulawesi Tengah |
| 81 | Maluku |
| 82 | Irian Jaya |

Origin: 5303-Kab. Kupang

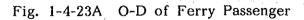




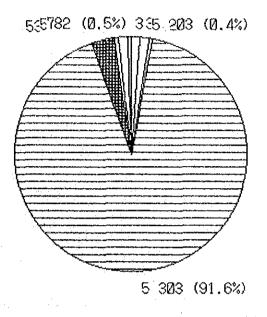
Origin: 5307-Kab. Alor

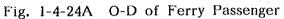


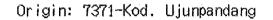


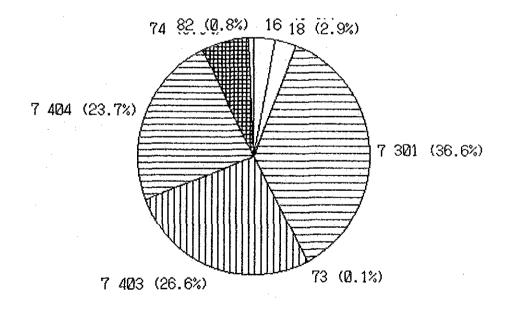


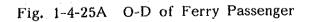
Origin: 5308-Kab. Flores Timur



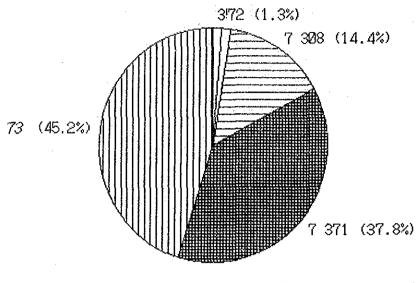


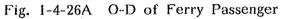




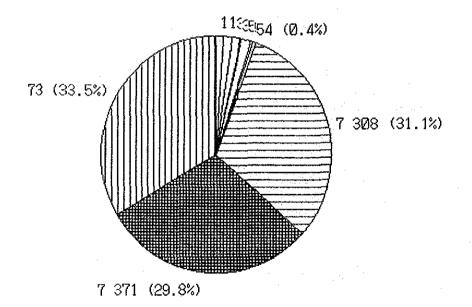


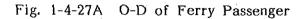
Origin: 7403-Kab. Kendari





Origin: 7404-Kab. Kolaka





Origin: 1672-Kod.Pangkal Pinang

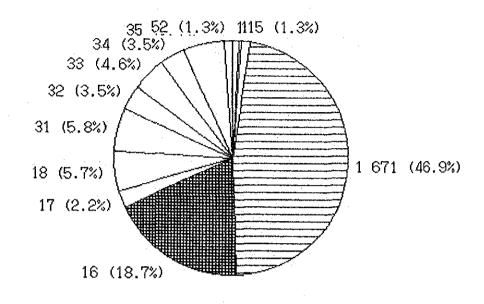
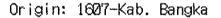
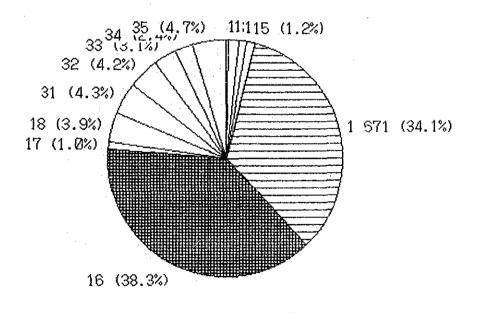


Fig. 1-4-28A O-D of Ferry Passenger







Origin; 1608-Kab. Belitung

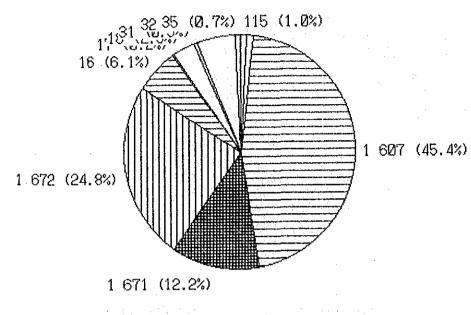
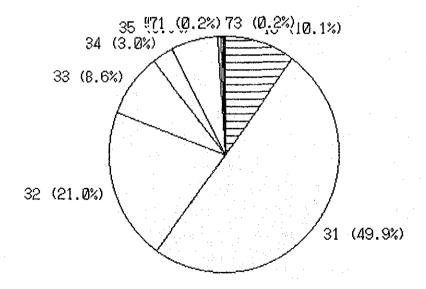
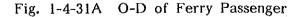


Fig. 1-4-30A O-D of Ferry Passenger

Origin; 1671-Kod. Palembang





| | | Cor | le | Cargo | <u>V.</u> |
|---|----------|----------|----------|-----------------|--------------|
| | | Origin | Destin. | Volume | % |
| • | | 18 | 31 | 514,904 | 68.0 |
| | | | 32 | 219,423 | 29.0 |
| | | | 33 | 15,437 | 2.0 |
| | | 5 A | 34 | 2,582 | 0.3 |
| | | | 35 | 3,886 | 0.5 |
| | | | 51 | 511 | 0.1 |
| | | | 71 | 511 | 0.1 |
| | | | Total | 757,254 | 100.0 |
| | | 31 | 11 | 479 | 0.0 |
| | | | 12 | 155,979 | 15.6 |
| | 1. A. A. | | 13 | 92,500 | 9.3 |
| | | | 14 | 33,083 | 3.3 |
| | | | 15 | 40,493 | 4.1 |
| | | | 16 | 163,255 | 16.4 |
| | | | 17 | 9,534 | 1.0 |
| | | | 18 | 470,285 | 47.1 |
| | | | 35 | 984 | 0.1 |
| | | | 51 | 29,650 | 3.0 |
| | | | 52 | 1,350 | 0.1 |
| | | | 53 | 31 | 0.0 |
| | | | Total | 997,623 | 100.0 |
| | | 35 | 10001 | 3,177 | 0.3 |
| | | | 12 | 458 | 0.0 |
| | | | 15 | 367 | 0.0 |
| | | | 15 16 | 2,744 | 0.3 |
| | | | | 2,744 10,318 | |
| | | | 18 | | 1.0 0.6 |
| - | • | | 31 | 5,994 | |
| | | | 32 | 1,140 | 0.1 |
| | | | 33 | 25,458 | 2.5 |
| | | | 34 | 403 | 0.0 |
| | | ļ | 35 | 324,936 | 32.4 |
| | | | 51 | 544,071 | 54.3 |
| | - | . | 52 | 82,822 | 8.3 |
| | | | 54 | 305 | 0.0 |
| | ÷. | | | 184 | 0.0 |
| | : | | Total | 1,002,377 | <u>100.0</u> |

Table 1-4-19A Ferry Cargo's O-D of Principal Regions

Source: O-D study 1988, MOC

.

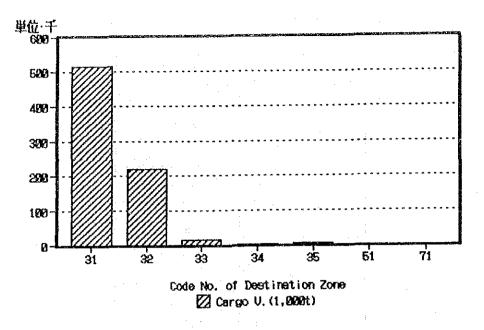


Fig. 1-4-34A Ferry Cargo's O-D From Code Zone No.18

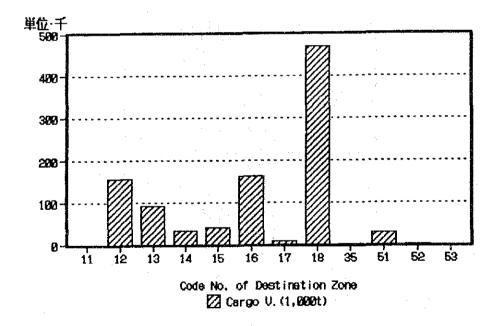


Fig. 1-4-35A Ferry Cargo's O-D From Code Zone No.31

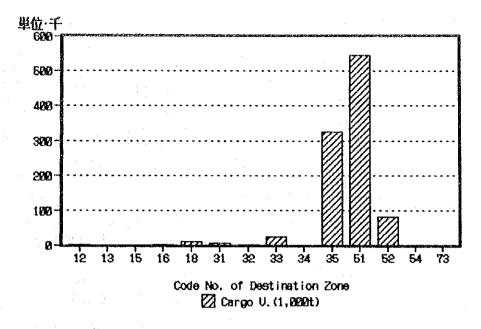


Fig. 1-4-36A Ferry Cargo's O-D From Code Zone No.35

Table 2-1-1A Number of Population by Province/Kabupaten

| an a | | 1000 18 -1- | | | | | - |
|--|--------------------|-------------|-----------------------|---------|---------|----------|-----------|
| Population : | Province(* 1971 | 1980 | <u>upatan</u> 1986 | 1987 | 1988 | 1989 1 | 1990 |
| laluku Prov. | 1,090 | 1,411 | 1,667 | 1,717 | 1,766 | 1,814 | 1,858 |
| Irian Jaya Prov. | 923 | 1,174 | 1,485 | 1,528 | 1,559 | 1,592 | 1,641 |
| East Nusa Tenggara Pro | 2,295 | 2,737 | 3,050 | 3,087 | 3,128 | 3,169 | 3,269 |
| South East Sulawesi Pr | 714 | 942 | 1,191 | 1,212 | 1,237 | 1,262 | 1,350 |
| South Sulawesi Prov. | 5,181 | 6,062 | 6,545 | 6,600 | 6,678 | G,830 | 6,981 |
| South Sumatera Prov. | 3,441 | 4,630 | 5,672 | 5,784 | 8,018 | 6,112 | 6,277 |
| loute-1,7 : Naluku Pro | ovince | | | | CC9 011 | 558,037 | 591,066 |
| Kab.Maluku Tengah | | | 527,236 | 539,294 | 553,811 | 527,058 | -561,354 |
| Kab.Haluku Utara | 4 | | 496,932 | 505,861 | 516,339 | | 276,280 |
| Kot.Ambon | | | 234,490 | 241,367 | 242,634 | 246,568 | 210,200 |
| loute-2 : Irian Jaya | Province | · | | | | 87,649 | 90,904 |
| Kab.Biak Numfor | | | 82,424 | 85,206 | 86,834 | | 67,129 |
| Kab.Yapen Waropen | | | 59,394 | 60,379 | 61,210 | 61,676 | |
| Kab-Paniai | · . | | 213,666 | 216,523 | 219,045 | 225,228 | 223,337 |
| loute-3 : East Nusa | Tenggara l | rovince | | | | 138,944 | 144,629 |
| Kab.Alor | | | 136,536 | 136,928 | 137,521 | | 265,759 |
| Kab.Flores Timur | | | 272,913 | 272,061 | 272,750 | 273,221 | |
| Kab.Kupang | | | 467,155 | 478,034 | 486,872 | 492,529 | 522,944 |
| 1-4,5,6,8 : South East | . Sulawesi | Province | | | 070 701 | 202 (02 | 395,653 |
| Kab-Buton | | | 367,494 | 373,795 | 379,731 | 383,695 | 488,392 |
| lab.kendari | | | 423,442 | 429,118 | 435,731 | 446,437 | 239,682 |
| Kab.Kolaka | | | 197,084 | 203,744 | 215,638 | 219,731 | 144,404 |
| Kot.Kendari | • | | 112,844 | 114,180 | 116,295 | 118,280 | 144,404 |
| loute-8 : South Sula | awesi Provi | ince | | 014 000 | 010 000 | 040 085 | 610,315 |
| Kab.Bone | | | 643,924 | 644,696 | 648,658 | 649,065 | 912,883 |
| Kod Ujungpandang | | | 778,581 | 806,129 | 813,047 | 862,965 | 912,003 |
| Route-9 : South Suma | atera Provi | nce | | AAA 007 | AC1 040 | 457,785 | 487,196 |
| Kab.Bangka | | | 436,697 | 444,837 | 451,849 | | |
| Kab.Belitung | | | 179,191 | 180,638 | 182,189 | 187,305 | 188,996 |
| Kod.Palembang | | | 849,912 | 880,721 | 883,546 | | 1,144,279 |
| Kod.Pangkalpinang | | · . | 108,214 | 109,770 | 110,640 | 113,171 | 114,108 |
| ار المراجع الم | | | | | | <u> </u> | |

| NO.1 | 1986 | 1987 | 1988 | 1989 | 199 |
|-----------------------------------|---------|---------|-------------|---------|----------|
| (ecamatan Salahutu(Hunimua) | | 32,415 | 34,105 | 34,917 | 37,24 |
| Ambon island | | 326,273 | 328,881 | 335,234 | 367,79 |
| (ecamatan Kairatu(Waipirit) | | 41,149 | 42,850 | 43,662 | 51,04 |
| Seram island | | 274,266 | 285,135 | 286,086 | 314,79 |
| v0.2 | 1986 | 1987 | 1988 | 1989 | 199 |
| (ecamatan Biak Kota(Biak) | 41,856 | 43,623 | 44,176 | 44,819 | 48,78 |
| Biak island | 67,015 | 69,118 | 70,855 | 71,741 | 75,34 |
| (ecamatan Yapen Selatan(Serui) | 23,884 | 24,222 | 24,428 | 24,566 | 28,98 |
| apen island | 44,404 | 45,024 | 45,599 | 45,921 | 50,76 |
| (ecamatan Nabire(Nabire) | 31,779 | 33,546 | | | 38,4 |
| 10.3 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Kopeta Kalabahi | 22,086 | 22,082 | 22,102 | 23,208 | 25,1 |
| llor island | 104,177 | 104,800 | 105,252 | 106,623 | 110,5 |
| Kecamatan Larantuka(Larantuka) | 31,682 | 31,937 | 32,732 | 33,208 | 33,5 |
| NO.4 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Poleang Timur(Bambaea) | | 16,264 | 16,352 | 16,368 | 17,2 |
| (ecamatan Kabaena(Sikeli) | - | 12,013 | 11,905 | 12,186 | 12,3 |
| (abaena island | - | 25,114 | 25,185 | 25,985 | 26,4 |
| <u>v0.5</u> | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Kabaena Timur(Balo) | | 13,101 | 13,280 | 13,799 | 14,1 |
| (ecamatan Mawasangka(mawasangka) | 24,760 | 25,025 | 25,370 | 25,715 | 26,9 |
| VO.6 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Wawoni(Langara) | | | 9,304 | 9,525 | 10,1 |
| ∛owoni island | 18,612 | | 19,462 | 19,879 | 21,0 |
| 10.7 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Morotai Selatan(Daruba) | | 25,719 | 25,826 | 26,251 | 26,6 |
| forotai island | 41,821 | 41,031 | 42,646 | | 44,3 |
| Kecamatan Tobelo(Tobelo) | 30,973 | 34,127 | 36,830 | 41,042 | 41,1 |
| VO.8 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Tanete Riatang(Bajoe) | 59,919 | 59,958 | 59,837 | 60,026 | 61,6 |
| (ecamatan Kolala(Kolaka) | | 28,801 | 29,493 | | 33,5 |
| V0.9 | 1986 | 1987 | 1988 | 1989 | 19 |
| (ecamatan Mentok(Kayaarang) | 43,358 | | | | 44,8 |
| (ecamatan Toboali(Sedai) | 44,521 | | 70 0 | - | 54,0 |
| Bangka island | 544,911 | 554,607 | 562,489 | 570,956 | 601,3 |
| (ecamatan Membalong(Telukgembia) | 100 101 | 15,291 | 15,517 | 15,677 | 16,0 |
| Belitung island | 179,191 | 180,638 | 182,189 | 187,305 | 188,9 |
| | <u></u> | | | | <u>.</u> |
| | | | | | |
| | | | | | |
| | | | | | |

-51-

| No. | Sector | 1987 | 1988 | 1989 |
|-----|------------------|--------------|---------------|---------------|
| 1. | Agriculture | 383,561,354 | 425,116,259 | 469,841,258 |
| - • | | 271,424,031 | 274,645,156 | 281,953,411 |
| 2. | Mining | 27,020,851 | 60,152,606 | 114,506,185 |
| | - | 33,969,584 | 36,013,640 | 37,676,644 |
| 3. | Industry | 116,348,928 | 140,017,892 | 161,515,242 |
| ••• | | 72,738,328 | 81,664,378 | 89,050,121 |
| 4 | Electricity, | 4,319,277 | 4,904,963 | 5,531,017 |
| | & Water Supply | 3,355,784 | 3,806,913 | 4,086,976 |
| 5 | Construction | 15,786,543 | 22,097,115 | 26,521,509 |
| у. | Constituction | 11,959,502 | 15,239,390 | 16,575,942 |
| 6 | Trade | 201,737,303 | 231,913,016 | 276,655,887 |
| 0. | 11uuc | 139,182,352 | 148,922,729 | 160,468,240 |
| 7 | Transport & | 43,403,115 | 48,187,567 | 50,412,674 |
| | Communication | 35, 380, 251 | 38,469,290 | 40,004,905 |
| 8. | Bank & Other | 21,502,902 | 59,577,948 | 76,599,232 |
| ••• | Financial Office | 16,396,409 | 40,601,186 | 48,878,081 |
| Q | House Rental | 15,843,500 | 16,975,197 | 16,267,036 |
| , ر | nouse nenous | 14,084,363 | 14,447,070 | 14,835,569 |
| 10 | Government | 92,132,531 | 99,639,499 | 106,645,600 |
| 10. | OUV CLIMONO | 62,065,414 | 66,677,365 | 70,315,148 |
| 11. | Services | 16,921,531 | 19,905,159 | 23,634,386 |
| • | | 13,307,545 | 13,887,970 | 14,515,349 |
| | Total | 940,249,995 | 1,130,027,366 | 1,332,560,946 |
| | | 673,863,563 | 734,375,087 | 778,378,386 |

Table 2-1-2A Gross Regional Domestic Product of Maluku in thousand rupiah

1983 : 478,678,055 thousand rupiah upper : at current prices lower : at constant 1983 prices

| No. S | ector | 1986 | 1987 | 1988 | 1989 |
|--|------------|-------------|-------------|----------------|----------------|
| 1. Agri | culture | 81,626,627 | 100,503,036 | 100,679,137 | 125,820,002 |
| N. Star | . * | 70,925,800 | 74,370,440 | 76,017,945 | 78,934,694 |
| 2. Mini | ng | 5,321,005 | 8,424,836 | 11,235,302 | 11,235,302 |
| . • | | 8,113,253 | 11,856,247 | 12,103,165 | 12,199,336 |
| 3. Indu | istry | 21,383,095 | 43,845,674 | 56,895,847 | 14,427,521 |
| n an | | 17,868,645 | 27,114,184 | 32,859,454 | 34,967,343 |
| 4. Elec | ctricity, | 297,867 | 386,464 | 436,609 | 516,198 |
| & Wa | ter Supply | 224,434 | 277,340 | 308,860 | 354,540 |
| 5. Cons | struction | 2,439,911 | 1,760,697 | 3,512,170 | 4,427,921 |
| | | 2,050,345 | 1,333,861 | 2,422,186 | 2,767,451 |
| 6. Trad | le | 37,051,762 | 49,700,001 | 57,629,542 | 68,993,069 |
| | | 30,930,941 | 35,580,054 | 38,375,518 | 41,405,535 |
| 7. Trar | sport & | 6,832,891 | 7,250,443 | 6,942,630 | 7,140,163 |
| | nunication | 6,052,377 | 6,197,080 | 5,921,875 | 6,083,321 |
| 8. Banl | & Other | 4,549 | 51,890 | 256,374 | 416,217 |
| | | 2,390 | 39,365 | 177,872 | 270,533 |
| 9. Hous | se Rental | 2,779.469 | 2,986,499 | 3,200,389 | 3,443,355 |
| • | | 2,588,443 | 2,654,903 | 2,723,273 | 2,796,505 |
| 10, Gove | ernment | 14,762,204 | 15,815,289 | 17,438,664 | 18,412,087 |
| | | 10,762,497 | 10,654,027 | 11,669,828 | 12,139,728 |
| 11. Serv | vices | 3,053,390 | 3,469,280 | 4,136,517 | 5,019,870 |
| | | 2,626,059 | 2,702,092 | 2,860,470 | 3,023,014 |
| Tota | | 175,552,477 | 234,274,109 | 272,413,122 | 312,839,274 |
| | | 152,145,184 | 172,773,593 | 185,440,446 | 194,942,000 |
| | | | 1983 : | 120,526,851 tl | nousand rupiah |
| na na salah | | | upper : | at current pri | ices |
| | a sa f | | lower : | at constant 19 | 983 prices |

Table 2-1-3A Gross Regional Domestic Product of Kabupaten Maluku Tengah in thousand rupiah

-53-

| No. | Sector | 1986 | 1987 | 1988 | 1989 |
|-------|---------------------------------------|-------------|-------------|--------------------------|--------------------------|
| | | | | | 150 001 (00 |
| 1. | Agriculture | 102,594,033 | 134,994,163 | 145,801,528 | 158,091,638 |
| | | 80,811,241 | 93,206,289 | 90,480,056 | 92,994,387 |
| 2 | Mining | 631,539 | 990,585 | 1,436,403 | 1,650,167 |
| 4. | nining | 510,546 | 780,194 | 935,608 | 1,049,851 |
| | · · · | 0107010 | | · · · · | |
| 3. | Industry | 30,889,498 | 54,234,204 | 61,581,357 | 71,736,720 |
| | - | 25,983,206 | 34,092,785 | 36,193,444 | 39,764,081 |
| | | • | | | |
| 4. | Electricity, | 802,474 | 942,028 | 1,073,808 | 1,274,595 |
| | & Water Supply | 615,264 | 729,453 | 802,877 | 900,367 |
| | | | | | |
| 5. | Construction | 2,271,017 | 2,323,513 | 3,322,751 | 4,155,650 |
| | | 1,908,435 | 1,760,238 | 2,291,553 | 2,597,281 |
| c | Trade | 38,693,666 | 51,787,632 | 60,811,318 | 73,019,200 |
| ο. | ILAGE | 31,177,237 | 36,126,362 | 39,799,833 | 42,927,090 |
| | | 51,117,257 | 30,120,302 | 337.337,000 | |
| 7. | Transport & | 9,931,452 | 11,812,673 | 12,420,645 | 12,701,842 |
| | Communication | 8,712,936 | 9,340,767 | 9,713,366 | 9,927,577 |
| | | | · · · · · | | Z = 0 |
| 8. | Bank & Other | 1,955,376 | 4,760,384 | 1,609,392 | 2,257,922 |
| | Financial Office | 1,661,642 | 3,367,664 | 1,094,729 | 1,413,584 |
| | | | | | 1 100 500 |
| 9. | House Rental | 3,330,941 | 3,579,046 | 3,835,374 | 4,126,523 |
| | | 3,102,012 | 3,181,658 | 3,263,593 | 3,351,355 |
| • | 0 | 0 016 010 | 16 210 052 | 17 100 600 | 10 004 061 |
| 10. | Government | 8,826,820 | 16,318,052 | 17,120,692 11,457,044 | 18,084,961 11,924,043 |
| | • | 6,435,259 | 10,992,715 | 11,437,044 | 11, 924, 043 |
| 1. | Services | 4,448,323 | 4,918,677 | 5,572,880 | 6,708,091 |
| • • • | | 3,845,978 | 3,867,667 | 3,392,017 | 4,127,949 |
| | · · · · · · · · · · · · · · · · · · · | • | - • | | |
| | Total | 204,375,159 | 286,660,957 | 314,595,048 | 353,815,694 |
| | | 164,763,756 | 197,445,792 | 199,903,620 | 210,977,515 |
| · | | | 1983 : 1 | 130,341,025 thou | word musich |
| | | | | at current price | - |
| | | | arrow a c | OWFICHT DITCE | |

Table 2-1-4A Gross Regional Domestic Product of Kabupaten Maluku Utara in thousand rupiah

| lo. | Sector | 1986 | 1987 | 1988 |
|-----|--|-------------|--------------------|-----------------|
| 1. | Agriculture | 29,821,650 | 29,732,785 | 30,386,474 |
| | | 21,972,066 | 20,041,664 | 19,670,678 |
| 2. | Mining | 2,743,280 | 1,928,823 | 2,659,793 |
| | | 2,281,896 | 1,561,109 | 1,999,363 |
| 3. | Industry | 8,749,339 | 14,309,024 | 18,998,207 |
| | | 6,473,121 | 8,560,396 | 10,508,446 |
| 4. | Electricity, | 2,485,012 | 2,741,339 | 3,063,796 |
| | & Water Supply | 1,941,023 | 2,173,082 | 2,444,083 |
| 5. | Construction | 13,184,777 | 9,255,912 | 12,783,521 |
| | | 11,079,644 | 7,012,054 | 8,816,222 |
| 6. | Trade | 45,103,018 | 60,139,953 | 64,681,437 |
| | | 35,708,017 | 41,822,119 | 42,371,654 |
| 7. | Transport & | 19,131,569 | 21,915,356 | 25,588,590 |
| | Communication | 17,094,558 | 17,904,020 | 20,321,736 |
| 8. | Bank & Other | 10,505,683 | 17,698,473 | 58,551,240 |
| | Financial Office | 8,967,445 | 12,518,276 | 38,859,631 |
| 9. | House Rental | 6,483,464 | 6,966,387 | 7,465,313 |
| | | 6,037,869 | 6,192,894 | 6,352,891 |
| 10. | Government | 39,492,198 | 41,866,166 | 44,808,710 |
| | | 28,792,083 | 28,203,295 | 29,844,891 |
| 11. | Services | 3,993,087 | 4,416,772 | 5,203,580 |
| | | 3,452,948 | 3,510,930 | 3,683,657 |
| | Total | 181,693,077 | 210,970,990 | 274,190,661 |
| | | 143,800,670 | 149,499,839 | 184,872,737 |
| | ,, <u></u> , <u></u> , <u></u> , <u></u> , <u></u> _, <u></u> , <u>_</u> , <u></u> | 19 | • | thousand rupiah |
| | | up | per : at current p | rices |

•

Table 2-1-5A Gross Regional Domestic Product of Kotamadya Ambon in thousand rupiah

.

| DESCRIPTION | STATE ROAD | PROVINCE ROAD | KABUPATEN ROAL |
|---------------------|------------|---------------|----------------|
| 1.Type of surface : | | | |
| a. Asphalted | 155.84 | 752.32 | 1,170.25 |
| b. Gravel | 205.23 | 343.36 | 551.52 |
| c. Earth | 34.00 | 82.76 | 653.40 |
| d. Unspecified | - | 35.00 | 204.83 |
| Total | 395.07 | 1.186.44 | 2,580.00 |
| 2.Road condition : | | | |
| a. Good | 50.37 | 18.24 | 954.88 |
| b. Moderate | 338.70 | 901.31 | 1,015.87 |
| c. Damage | 6.00 | 231.89 | 430.20 |
| d. Heavy damage | - | 35.00 | 179.05 |
| Total | 395.07 | 1,186.44 | 2,580.00 |

Table 2-1-6A Length of Road In Maluku Province in 1990 (km)

Table 2-1-7A Length of Road in Kabupaten Maluku Tengah (km)

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------|-------|-------|------------------|-----------------|---------|-------|
| 1. Type of surface : | | | · . | | | |
| a. Asphalted | 144.4 | 144.4 | 249.4 | 29.7 | 429.5 | 462.5 |
| b. Gravel | 60.9 | 60.9 | 73.9 | 299 | 286 | 327 |
| c. Earth | - | -) | 373.9 | 362 | | - |
| d. Unspecified | 189.5 | 189.5 |) - ¹ | ``` | · - · · | - |
| Total | 394.8 | 394.5 | 697.2 | 958 | 715.5 | 789.5 |
| 2. Road condition : | | | | . · · · | . · · · | |
| a, Good | 101.9 | 101.9 | 225.0 | 205 | 116 | 190 |
| b. Moderate | 42.5 | 42.5 | 98.3 | 151 | 324.5 | 324.5 |
| c. Damage | 60.9 | 60.9) | 373.9 | 249 | 207 | 207 |
| d. Heavy damage | 189.5 | 189.5 | | 363 | 68 | 68 |
| Total | 394.8 | 398.8 | 697.2 | 958 | 715.5 | 789.5 |

Sources : Public Work Official of each Kabupaten/Kotamadya

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------|--------|---------|--------|---------|--------|--------|
| 1. Type of surface : | | · · · · | | <u></u> | | |
| a. Asphalted | 211.0 | 230.2 | 232.18 | 235 | 237.93 | 237.93 |
| b. Gravel | 92.3 | 82.6 | 85.08 | 184.2 | 207.07 | 207.07 |
| c. Earth | 121.5 | 136.0 | 154 | 161 | - | |
| d. Unspecified | 109.1 | 101.8 | 99.80 | - | 62.5 | 62.5 |
| Total | 533.9 | 550.6 | 571.06 | 582.2 | 507.50 | 507.50 |
| 2. Road condition : | | | | | 10 FF | 10 55 |
| a, Good | 130.6) | 265.9 | | 232.08 | 16.55 | 16.55 |
| b. Moderate | 200.0) | | 340.40 | 145.05 | 361.45 | 361.45 |
| c. Damage | 94.2) | 284.7 | 230.66 | 116.04 | 44.5 | 44.5 |
| d. Heavy damage | 109.1 | | | 87.03 | 85.0 | 85.0 |
| Total | 533.9 | 550.6 | 571.06 | 582.2 | 507.50 | 507.50 |

Table 2-1-8A Length of Road in Kabupaten Maluku Utara (km)

Sources : Public Work Official of each Kabupaten/Kotamadya

Table 2-1-9A Number of Vehicles in Maluku Province

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Passenger car Heavy cars(trucks) Motorcycle Total | 1,736 5,511 18,141 25,388 | 2,556 2,284 19,204 24,088 | 3,344 5,379 53,642 62,365 | 3,625 5,713 34,398 43,736 | 3,976 5,915 35,052 44,943 | 3,949 5,245 16,800 25,984 |

Sources : Traffic Directorate POLDA Maluku

Table 2-1-10A Number of Vehicles in Kabupaten Maluku Tengah

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 |
|---|------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| Passenger car Heavy cars(tr Motorcycle Total | | 23 158 773 954 | 32 422 943 1,397 | 25 479 1,277 1,781 | 25 519 1,299 1,843 |
| Sources : POL | RES(Police | Distric | t)Kabupa | ten Malu | ku Tenga |

| Sector States | a a substantia de la companya de la | | ······································ | | | |
|---------------|--|------|--|-----------|-----------|-------|
| Year | Trip | Boat | Passenger | Vehicle-2 | Vehicle-4 | Cargo |
| | | | | Roda-2 | Roda-4 | Ton |
| 86 | 835 | 1 | 65,867 | 3,454 | 1,503 | 2,931 |
| 87 | 845 | 1 | 87,276 | 2,838 | 2,023 | 2,778 |
| 88 | 2,106 | 1 | 196,630 | 4,710 | 4,443 | 4,428 |
| 89 | 2,036 | 1 | 196,059 | 5,383 | 4,737 | 4,166 |
| 90 | 2,818 | 2 | 300, 141 | 7,514 | 7,090 | 6,130 |
| 91 | 4,031 | 2 | 348,368 | 9, 194 | 10,510 | 5,342 |

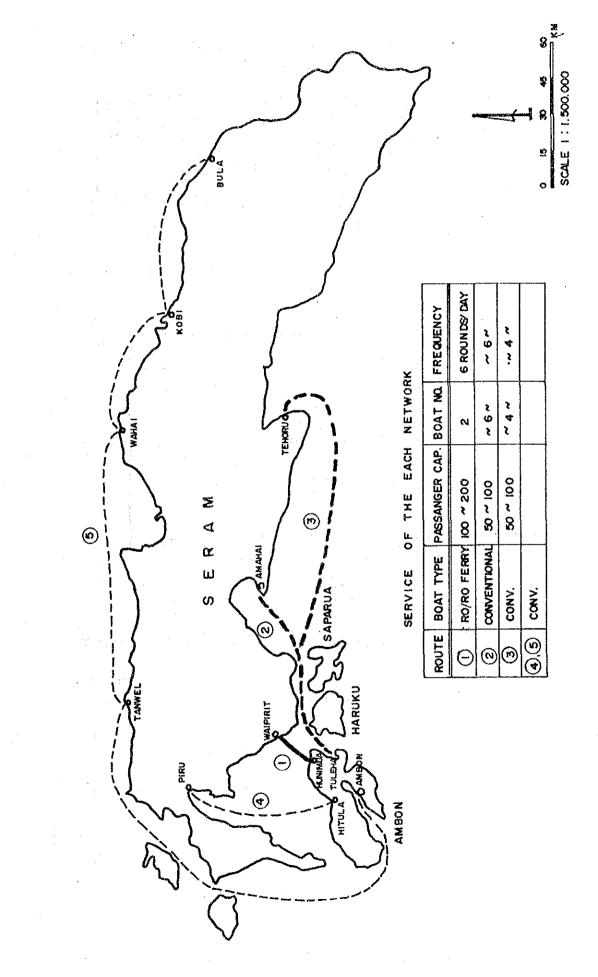
Table 2-1-11A Ferry Transportation Volume of Hunimua - Walpirit Route

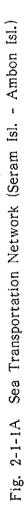
*Source: DGLT Regional Office

Table 2-1-12A Monthly Transportation Volume of Hunimua - Waipirit Route

| | | And a second second | - 1 | · · · · · · · · · · · · · · · · · · · | |
|-------|----------|---------------------|-----------|---------------------------------------|-------|
| Month | Trip No. | Passenger | Vehicle-1 | Vehicle-2 | Cargo |
| | | | • | | Ton |
| Jan. | 372 | 32,757 | 914 | 966 | 583 |
| Feb. | 336 | 28,627 | 872 | 890 | 473 |
| Mar. | 372 | 31,700 | 848 | 919 | 479 |
| Apr. | 333 | 31,136 | 861 | 786 | 477 |
| May | 370 | 27,885 | 698 | 800 | 301 |
| Jun | 360 | 32,018 | 420 | 627 | 346 |
| Jul. | 366 | 30,614 | 575 | 778 | 318 |
| Aug. | 372 | 23,604 | 506 | 814 | 304 |
| Sep. | 360 | 24,976 | 914 | 857 | 351 |
| Oct. | 213 | 24,072 | 501 | 985 | 526 |
| Nov. | 228 | 27,989 | 1,322 | 977 | 713 |
| Dec. | 349 | 32,990 | 763 | 1,111 | 471 |
| Total | 4,031 | 348, 368 | 9,194 | 10,510 | 5,342 |

*Source: DGLT Regional Office





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| | | and the second | | | | |
|------|------------|--|----------|---------------|--------|---------------|
| Year | Hun,~Waip. | Tulehu | Amahai | Tehoru | Piru | Wahai |
| 1986 | 65,867 | 275,616 | 137.322 | 28,070 | 20.603 | 18,688 |
| 87 | 87.276 | 284,599 | 111.822 | 19,984 | 22.779 | 14,836 |
| 88 | 196,630 | 193,039 | 124, 591 | 25,181 | 21,710 | 16.772 |
| 89 | 196,059 | 237,647 | 127.000 | 19.974 | 17.000 | 19,000 |
| 90 | 300,141 | 241,911 | 129,747 | 14,419 | 12.628 | 22,393 |
| 91 | 348,368 | 290,791 | 200,093 | <u>14,000</u> | 12,000 | <u>22.000</u> |

Table 2-1-13APassenger Transportation Volume by Ferry/Conventional ModeBetween Ambon Isl. and Seram Isl.

*Source: DGLT/DGSC Regional Office

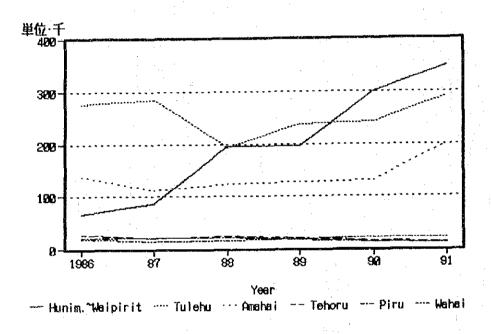


Fig. 2-1-2A Passenger Volume between Ambon Isl. and Seram Isl. (1,000)

| No. | Sector | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----|----------------|--------------|------------|-------------------------------|-------------|-------------|
| 1. | Agriculture | 246,467.32 | 296,318.77 | 334,086.64 | 393,280.91 | 427,374.52 |
| | | 189,259.54 | 202,825.00 | 220,199.32 | 238,723.16 | 230,679.32 |
| 2. | Mining | 473,670.49 | 426,755.04 | 468,368.80 | 669,591.07 | 829,467.71 |
| ÷ | | 333,084.81 | 313,639.63 | 329,309.10 | 332,214.12 | 359,056.33 |
| 3. | Industry | 9,207.26 | 12,158.44 | 14,231.63 | 43,817.47 | 52,322.55 |
| | | 7,177.77 | 7,808.99 | 8,689.73 | 27,159.50 | 30,542.12 |
| 4. | Electricity, | 5,892.68 | 7,143.24 | 7,877.60 | 9,095.85 | 10,273.30 |
| | & Water Supply | y 4,342.77 | 5,122.75 | 5,647.92 | 6,245.97 | 6,888.83 |
| 5. | Construction | 55,808.15 | 63,242.44 | 77,037.89 | 89,662.96 | 104,213.30 |
| | | 45,324.58 | 47,292.10 | 56,466.95 | 64,309.80 | 72,703.65 |
| 6. | Trade | 76,738.16 | 89,812.85 | 102,204.52 | 119,084.47 | 138,500.93 |
| | | 67,524.44 | 78,858.95 | 85,939.68 | 96,985.30 | 106,840.39 |
| .7. | Transport & | 53,241.30 | 65,186.31 | 78,026.09 | 143,265.72 | 166,592.58 |
| | Communication | 41,006.07 | 47,981.97 | 56,470.36 | 97,152.19 | 110,960.89 |
| 8. | Bank & Other | 7,366.03 | 7,110.25 | 7,366.02 | 10,907.19 | 19,292.26 |
| | Financial Off | ice 6,193.58 | 6,074.44 | 5,750.21 | 7,187.06 | 12,499.01 |
| 9. | House Rental | 5,122.87 | 6,360.05 | 6,600.24 | 14,367.51 | 15,983.93 |
| | : | 3,730.59 | | 3,964.07 | 9,252.71 | 9,595.43 |
| 10. | Government | 115,030.38 | 136,055.30 | 168,687.12 | 195,474.64 | 234,503.06 |
| | | | 106,494.51 | 121,382.45 | 138,339.58 | 158,835.39 |
| 11. | Services | 30,489.19 | 32,455.91 | 35,220.60 | 43,088.10 | 48,169.10 |
| | | | | 29,889.35 | 36,525.88 | 39,567.10 |
| | Total 1,07 | 9,033.8 1,1 | 42,598.6 1 | ,299,707.2 | 1,731,635.9 | 2,046.693.2 |
| | 82 | | 48,273.2 | 923,709.1 | 1,054,095.3 | 1,138,168.5 |
| | | | 198 | 3 : 852,165 | .83 million | rupiah |
| | | | - • | er : at curre er : at cons | | |

Table 2-2-1A Gross Regional Domestic Product of Irian Jaya in million rupiah

| No. | Sector | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----|----------------|-----------|-----------|-----------|-----------|------------|
| 1. | Agriculture | 18,351.66 | 16,402.58 | 17,881.90 | 20,107.91 | 25,331.89 |
| | - | 14,138.67 | 12,820.33 | 14,596.86 | 15,454.89 | 17,163.36 |
| 2. | Mining | 415.57 | 522.87 | 459.10 | 511.98 | 584.17 |
| | | 323.55 | 374.16 | 353,25 | 387.80 | 427.59 |
| 3. | Industry | 576.69 | 766.32 | 895.76 | 2,819.42 | 3,355.42 |
| | | 410.98 | 361.81 | 507.34 | 1,658.39 | 1,861.49 |
| 4. | Electricity, | 760.73 | 915.83 | 999.37 | 1,064.35 | 1,218.45 |
| | & Water Supply | 536.40 | 646.88 | 703.18 | 723.44 | 798.50 |
| 5. | Construction | 6,988.06 | 7,919.70 | 9,767.00 | 10,939.04 | 12,251.73 |
| · | , | 5,675.35 | 5,921.72 | 7,158.98 | 7,858.42 | 8,428.66 |
| 6. | Trade | 3,696.78 | 4,380.03 | 4,992.20 | 5,791.50 | 6,766.72 |
| | | 3,015.04 | 3,636.52 | 3,962.11 | 4,372.83 | 4,927.66 |
| 7. | Transport & | 8,318.64 | 9,784.67 | 11,402.73 | 23,914.81 | 28,310.89 |
| | Communication | 6,530.48 | 7,433.72 | 8,541.77 | 16,759.48 | 19,675.97 |
| 8. | Bank & Other | 12.55 | 616.10 | 638.26 | 918.35 | 1,388.26 |
| | Financial Offi | ce 10.55 | 492.01 | 465.75 | 605.10 | 899.42 |
| 9. | House Rental | 293.39 | 364.25 | 371.57 | 812.06 | 890.79 |
| | | 209.24 | 213.85 | 220.26 | 522.97 | 534.75 |
| 10. | Government | 10,545.95 | 12,693.10 | 15,737.45 | 18,236.56 | 21,359.73 |
| | | 8,601.75 | 9,228.02 | 10,518.10 | 11,987.48 | 13,345.17 |
| 11. | Services | 3,934.02 | 3,296.86 | 3,577.70 | 4,314.33 | 5,022.42 |
| | | 2,728.28 | 3,924.46 | 4,141.01 | 4,848.84 | |
| | Total | 53,894.04 | 57,662.31 | 66,723.31 | 89,430.31 | 106,480.47 |
| | • | 42,180.29 | 45,053.48 | 51,168.61 | 65,179.64 | |

Table 2-2-2A Gross Regional Domestic Product of Kabupaten Biak Number in million rupiah

> 1983 : 28,632.77 million rupiah upper : at current prices lower : at constant 1983 prices

| 1986 | 1987 | 1988 | 1989 | 1990 |
|--------------|---|---|---|---|
| 7,237.92 | 6,360.25 | 7,419.12 | 7,864.37 | 8,719.64 |
| 5,142.73 | 4,714.91 | 5,528.74 | 5,926.77 | 6,018.27 |
| 260.28 | 304.26 | 287.54 | 320.67 | 366.24 |
| 202.65 | 256.90 | 219,99 | 241.26 | 266.47 |
| 389.80 | 475.19 | 577.43 | 1,321.83 | 1,606.71 |
| 292.09 | 293.64 | 328,78 | 654.25 | 751.43 |
| , 117.74 | 138,21 | 151.85 | 177.58 | 193.72 |
| oply 66.72 | 78.90 | 84.80 | 95.81 | 101.17 |
| on 3,008.52 | 3,409.61 | 4,327.06 | 4,688.51 | 5,215.66 |
| 2,443.37 | 2,549.44 | 3,171.64 | 3,691.56 | 3,691.56 |
| 1,617.09 | 1,898.20 | 2,156.14 | 2,533.79 | 2,917.24 |
| 1,563.28 | 1,826.87 | 1,989.76 | 1,843.83 | 2,041.28 |
| 712.34 | 812.91 | 956.03 | 2,532.10 | 2,905.75 |
| on 647.07 | 697.78 | 822.83 | 1,849.37 | 2,109.75 |
| er 23.80 | 38.03 | 39.40 | 219.19 | 333.05 |
| Office 20.01 | 30.45 | 28.82 | 144.42 | 215.77 |
| 302.31 | 375,32 | 382.15 | 673.52 | 739.31 |
| 215.09 | 219.87 | 226.47 | 433.75 | 443.82 |
| 9,014.85 | 10,545.58 | 13,074.85 | 15,151.14 | 18,524.16 |
| 8,122.47 | 8,713.84 | 9,932.04 | 11,319.55 | 13,315.85 |
| 1,894.79 | 1,815.87 | 1,970.55 | 2,391.61 | 2,728.24 |
| 1,283.22 | 1,713.84 | 1,927.66 | 2,370.60 | 2,613.28 |
| 24,579.44 | 26,173.43 | 31,342.12 | 37,874.31 | 44,249.72 |
| 19,998.70 | 21,209.45 | 24,261.53 | 28,571.17 | 31,568.63 |
| | | | | |
| | 7,237.92 5,142.73 260.28 202.65 389.80 292.09 7, 117.74 66.72 90 3,008.52 2,443.37 1,617.09 1,563.28 712.34 647.07 91,563.28 712.34 647.07 91,563.28 712.34 647.07 91,563.28 712.34 647.07 91,563.28 23.80 9,014.85 8,122.47 1,894.79 1,283.22 24,579.44 | 7,237.92 6,360.25 5,142.73 4,714.91 260.28 304.26 202.65 256.90 389.80 475.19 292.09 293.64 7,117.74 138.21 78.90 78.90 90 3,008.52 3,409.61 2,443.37 2,549.44 1,617.09 1,898.20 1,563.28 1,826.87 4 712.34 812.91 90 647.07 697.78 91 302.31 375.32 215.09 219.87 9,014.85 10,545.58 8,122.47 8,713.84 1,894.79 1,815.87 1,283.22 1,713.84 24,579.44 26,173.43 19,998.70 21,209.45 | 7, 237.92 $6, 360.25$ $7, 419.12$ $5, 142.73$ $4, 714.91$ $5, 528.74$ 260.28 304.26 287.54 202.65 256.90 219.99 389.80 475.19 577.43 292.09 293.64 328.78 $7, 117.74$ 138.21 151.85 $pply$ 66.72 78.90 84.80 pn $3,008.52$ $3,409.61$ $2,443.37$ $2,549.44$ $3,171.64$ $1,617.09$ $1,898.20$ $2,156.14$ $1,563.28$ $1,826.87$ $1,989.76$ 647.07 697.78 822.83 $9r$ 23.80 38.03 39.40 $0ffice$ 20.01 30.45 28.82 81 302.31 375.32 382.15 $8,122.47$ $8,713.84$ $9,932.04$ $1,894.79$ $1,815.87$ $1,970.55$ $1,283.22$ $1,713.43$ $31,342.12$ $19,998.70$ $21,209.45$ $24,579.44$ $26,173.43$ $31,342.12$ $19,998.70$ $21,209.45$ | 7,237.92 $6,360.25$ $7,419.12$ $7,864.37$ $5,142.73$ $4,714.91$ $5,528.74$ $5,926.77$ 260.28 304.26 287.54 320.67 202.65 256.90 219.99 241.26 389.80 475.19 577.43 $1,321.83$ 292.09 293.64 328.78 654.25 $r,$ 117.74 138.21 151.85 177.58 $pply$ 66.72 78.90 84.80 95.81 m $3,008.52$ $3,409.61$ $4,327.06$ $4,688.51$ $2,443.37$ $2,549.44$ $3,171.64$ $3,691.56$ $1,617.09$ $1,898.20$ $2,156.14$ $2,533.79$ $1,563.28$ $1,826.87$ $1,989.76$ $1,843.83$ $a, 712.34$ 812.91 956.03 $2,532.10$ $a, 647.07$ 697.78 822.83 $1,849.37$ ar 23.80 38.03 39.40 219.19 $offfice$ 20.01 30.45 28.82 144.42 al 302.31 375.32 382.15 673.52 $9,014.85$ $10,545.58$ $13,074.85$ $15,151.14$ $8,122.47$ $8,713.84$ $9,932.04$ $11,319.55$ $1,894.79$ $1,815.87$ $1,970.55$ $2,391.61$ $1,283.22$ $1,713.84$ $1,927.66$ $2,370.60$ $24,579.44$ $26,173.43$ $31,342.12$ $37,874.31$ |

Table 2-2-3A Gross Regional Domestic Product of Kabupaten Yapen Waropen in million rupiah

1983 : 17,810.27 million rupiah upper : at current prices lower : at constant 1983 prices

| Sector Agriculture | 1986 35,640,69 | 1987 | 1988 | 1989 | 1990 |
|-----------------------|--|--|---|---|---|
| Agriculture | 35,640.69 | | | | |
| | | 43,203.18 | 47,706.64 | 54,234.17 | 53,348.38 |
| | 29,955.81 | 30,770.16 | 31,426.21 | 32,149.91 | 27,463.83 |
| Mining | 267.45 | 377.55 | 385.87 | 462.42 | 520.36 |
| | 208.23 | 241.90 | 346.86 | 392.74 | 429.09 |
| Industry | 520.26 | 690.05 | 806.39 | 3,077.58 | 3,674.54 |
| | 441.56 | 479.75 | 526.99 | 1,852.17 | 2,094.60 |
| Electricity, | 152.05 | 216.25 | 249.07 | 322.01 | 454.10 |
| & Water Supply | 143.91 | 205.48 | 237.84 | 254.42 | 331.40 |
| Construction | 4,544.38 | 5,150.23 | 6,371.38 | 8,448.17 | 9,252.58 |
| | 3,690.72 | 3,850.93 | 4,670.07 | 5,843.66 | 6,302.53 |
| Trade | 5,882.59 | 6,874.89 | 7,784.59 | 8,895.04 | 9,723.98 |
| | 5,293.37 | 6,144.63 | 6,696.97 | 7,729.84 | 8,421.65 |
| Transport & | 1,592.13 | 1,749.07 | 2,082.25 | 4,916.22 | 6,027.67 |
| Communication | 1,328.65 | 1,510.93 | 1,820.85 | 3,513.61 | 4,125.48 |
| Bank & Other | -88.73 | 435.94 | 451.62 | 297.18 | 399.76 |
| Financial Offic | ce -74.60 | 348.14 | 329.56 | 195.81 | 258.99 |
| House Rental | 764.63 | 949.29 | 963.24 | 1,922.98 | 2,099.54 |
| | 544.03 | 553.79 | 570.41 | 1,238.41 | 1,260.39 |
| Government | 10,358.43 | 12,457.05 | 15,444.78 | 17,897.41 | 21,706.96 |
| | 8,467.76 | 9,084.26 | 10,354.24 | 11,800.73 | 13,756.49 |
| Services | 2,227.40 | 2,752.65 | 2,987.13 | 3,896.6 | 4,359.93 |
| | 1,600.82 | 1,948.64 | 2,056.16 | 1,636.89 | 2,836.30 |
| Total | 61,861.58 | 74,816.15 | 85,232.96 | 104,369.54 | 111,567.80 |
| | 51,600.26 | 55,138.61 | 59,036.16 | 67,808.19 | 67,280.75 |
| | | 198 | 3:48,573.4 | 5 million ru | piah |
| | | | | | |
| | Construction Trade Transport & Communication Bank & Other Financial Offic House Rental Government Services | 441.56 Electricity, 152.05 & Water Supply 143.91 Construction 4,544.38 3,690.72 Trade 5,882.59 5,293.37 Transport & 1,592.13 Communication 1,328.65 Bank & Other -88.73 Financial Office -74.60 House Rental 764.63 544.03 Government 10,358.43 8,467.76 Services 2,227.40 1,600.82 Total 61,861.58 | 441.56 479.75 Electricity, 152.05 216.25 & Water Supply 143.91 205.48 Construction 4,544.38 5,150.23 3,690.72 3,850.93 Trade 5,882.59 6,874.89 5,293.37 6,144.63 Transport & 1,592.13 1,749.07 Communication 1,328.65 1,510.93 Bank & Other -88.73 435.94 Financial Office -74.60 348.14 House Rental 764.63 949.29 544.03 553.79 6084.26 Services 2,227.40 2,752.65 1,600.82 1,948.64 704.816.15 Total 61,861.58 74,816.15 51,600.26 55,138.61 198 upp 198 upp | 441.56 479.75 526.99 Electricity, 152.05 216.25 249.07 & Water Supply 143.91 205.48 237.84 Construction 4,544.38 5,150.23 6,371.38 3,690.72 3,850.93 4,670.07 Trade 5,882.59 6,874.89 7,784.59 5,293.37 6,144.63 6,696.97 Transport & 1,592.13 1,749.07 2,082.25 Communication 1,328.65 1,510.93 1,820.85 Bank & Other -88.73 435.94 451.62 Financial Office -74.60 348.14 329.56 House Rental 764.63 949.29 963.24 544.03 553.79 570.41 Government 10,358.43 12,457.05 15,444.78 8,467.76 9,084.26 10,354.24 Services 2,227.40 2,752.65 2,987.13 1,600.82 1,948.64 2,056.16 Total 61,861.58 74,816.15 85,232.96 51,600.26 55,138.61 59,036.16 <td>A41.56 479.75 526.99 1,852.17 Electricity, 152.05 216.25 249.07 322.01 & Water Supply 143.91 205.48 237.84 254.42 Construction 4,544.38 5,150.23 6,371.38 8,448.17 Trade 5,882.59 6,874.89 7,784.59 8,895.04 Trade 5,293.37 6,144.63 6,696.97 7,729.84 Transport & 1,592.13 1,749.07 2,082.25 4,916.22 Communication 1,328.65 1,510.93 1,820.85 3,513.61 Bank & Other -88.73 435.94 451.62 297.18 Financial Office -74.60 348.14 329.56 195.81 House Rental 764.63 949.29 963.24 1,922.98 544.03 553.79 570.41 1,238.41 Government 10,358.43 12,457.05 15,444.78 17,897.41 8,467.76 9,084.26 10,354.24 11,800.73 Services 2,227.40 2,752.65 2,987.13 3,896.6 1,600.82</td> | A41.56 479.75 526.99 1,852.17 Electricity, 152.05 216.25 249.07 322.01 & Water Supply 143.91 205.48 237.84 254.42 Construction 4,544.38 5,150.23 6,371.38 8,448.17 Trade 5,882.59 6,874.89 7,784.59 8,895.04 Trade 5,293.37 6,144.63 6,696.97 7,729.84 Transport & 1,592.13 1,749.07 2,082.25 4,916.22 Communication 1,328.65 1,510.93 1,820.85 3,513.61 Bank & Other -88.73 435.94 451.62 297.18 Financial Office -74.60 348.14 329.56 195.81 House Rental 764.63 949.29 963.24 1,922.98 544.03 553.79 570.41 1,238.41 Government 10,358.43 12,457.05 15,444.78 17,897.41 8,467.76 9,084.26 10,354.24 11,800.73 Services 2,227.40 2,752.65 2,987.13 3,896.6 1,600.82 |

Table 2-2-4A Gross Regional Domestic Product of Kabupaten Paniai in million rupiah

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Table 2-2-5A Length of Road in Irian Jaya Province in 1989 (km)

| STATE | PROVINCE | KABUPATEN | TOTAL |
|--------|------------------------|---|--|
| | | | |
| 319,50 | 548.55 | 207.56 | 1,076.42 |
| 196.50 | 767.89 | 823.85 | 1,773.97 |
| 29 | 318.76 | | 2,259,88 |
| 545 | 1,635,18 | 2,837,44 | 5,110,27 |
| | 319.50 196.50 29 | 319.50 548.55 196.50 767.89 29 318.76 | 319.50 548.55 207.56 196.50 767.89 823.85 29 318.76 1,806,03 |

Table 2-2-6A Length of Road in Kabupaten Biak Numfor (km)

| | 19 | 1990 1 | | 989 19 | | 88 | | 1987 | |
|-------------------|---------|---------------------|---------|--------|--------|----------|--------|--------|--|
| DESCRIPTION | Pro. | Kab. | Pro. | Kab. | Pro. | Kab. | Pro. | Kab. | |
| Type of surface : | | | | | | <u> </u> | | | |
| 1. Asphalted | | 139.029 | 114.000 | 119.91 | 132.75 | 92.63 | 131.75 | 52.11 | |
| 2. Gravel | - | 1,600 | _ | 6.20 | 20.90 | 66.19 | 20.90 | 104.06 | |
| 3. Earth | - | 192.086 | 7.00 | 84.67 | - | 7.80 | 0.40 | 7.30 | |
| Road condition : | | а. — А. А. А. | | | | | | | |
| 1. Good | 40.590 | 117.987 | 4.00 | 44.20 | 18.65 | 50.41 | 126.05 | 28.87 | |
| 2. Moderate | 106.060 | 20.586 | 96.00 | 54.99 | 114.10 | 73.21 | 11.81 | 29.65 | |
| 3. Damage | - | 194.141 | 21.00 | 111.59 | 20.90 | 43.00 | 15.14 | 104.99 | |
| Total | 146.650 | 332.715 | 121.00 | 210.90 | 153.65 | 166.62 | 153.00 | 163.52 | |

Table 2-2-7A Length of Road in Kabupaten yapen Waropen (km)

| | 1988 | 1989 | 1990 |
|-----------------|-------|-------|-----------|
| KABUPATEN ROADS | | | · · · · · |
| 1. Asphalted | 22.75 | 22.76 | 24.158 |
| 2. Gravel | 10.86 | 10.86 | 13.760 |
| 3. Earth | 33.57 | 36.57 | 34.368 |
| Total | 69.18 | 70.18 | 72.286 |
| KECAMATAN ROADS | | | |
| 1. Asphalted | 4.5 | 4.5 | 8.5 |
| 2. Gravel | 7.4 | 6.4 | 2.9 |
| 3. Earth | 165.2 | 168.4 | 168.9 |
| 4. Others | 25.0 | 25.0 | 25.0 |
| Total | 202.6 | 205.3 | 205.3 |
| Total | | | 277.586 |

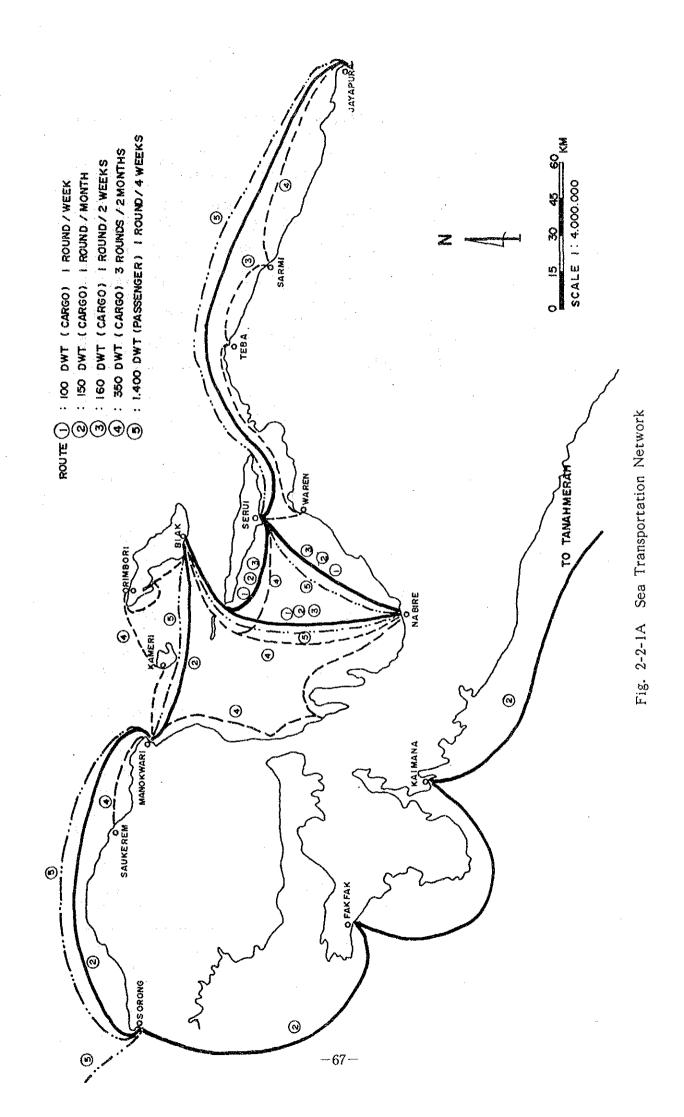
| DESCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------|--------|---|---|------------|---------|
| 1. Type of surface : | | <u>an an a</u> | an an faire an ann an Anna an A | | |
| a. Asphalted | 34.18 | 67.73 | 79.46 | 87.597 | 96.819 |
| b. Gravel | 260.27 | 212.72 | 483.41 | 208.862 | 210.640 |
| c. Earth | 299.30 | 383.30 | 412.05 | 406.326 | 449.126 |
| d. Unspecified | | | | 0.124 | 0.124 |
| Total | 593.75 | 663.74 | 974.92 | 702.909 | 756.709 |
| 2. Road condition : | | | | · . | |
| a. Good | 448.75 | 67.73 | 79.46 | 7.448 | 46.997 |
| b. Moderate | 110.00 | 596.02 | 50.00 | 242.893 | 244.206 |
| c. Damage | 35.00 | | 845.47 | 449.455 | 463.706 |
| d. Heavy damage | - | _ . | | - . | 1.800 |
| d. Unspecified | | · | . | 3.113 | |
| Total | 593.75 | 663.75 | 947.93 | 702.909 | 756.709 |

Table 2-2-8A Length of Road in Kabupaten Paniai (km)

Sources : Public Work Office of Kabupaten Paniai

Table 2-2-9A Number of Vehicles in Irian Jaya Province

| | | | · · · · · | • ****** | |
|--|---|---|---|---|---|
| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 |
| Passenger car Buses Cart car Motorcycle Total | 7,224 443 3,520 24,633 35,840 | 7,253 462 3,430 23,029 34,174 | 8,403 263 3,608 24,672 36,946 | 8,403 263 3,608 24,672 36,946 | 5,967 4,036 4,713 29,366 44,082 |



| Year | Ship | | argo T/M3 | | | Passenger | | |
|------|--|---|--|--|--|--|---|---|
| | Call | Unloading | | | Unboading | Boading | Total | |
| ••• | | : | | | | | | 1.1 |
| 89 | 332 | 34.572 | 38,602 | 73,174 | 8,343 | 7,372 | 15,715 | |
| | | 63,613 | 67,489 | 131,102 | 8,243 | 7,359 | 15,602 | |
| | | | | | | | | (|
| 85 | 492 | 11,454 | 411 | 11,865 | 6,284 | 7,222 | 13,506 | |
| | | | 690 | 15,036 | 4,139 | 5,415 | 9,554 | |
| | | | 724 | 14,433 | 5,403 | 7,148 | 12,551 | |
| | | | 721 | 13,755 | 7,280 | 8,846 | 16,126 | |
| 89 | 299 | 14,938 | 1,079 | 16,017 | 7,910 | 7,870 | 15,780 | |
| | | | | | | | | |
| 88 | | 15,572 | 1,624 | 17, 196 | | | 0 | |
| 89 | ••••• | 22,698 | 13,937 | 36,635 | | | 0 | |
| | 89 90 85 86 87 88 89 88 | Call 89 332 90 650 85 492 86 396 87 312 88 275 89 299 | Call Unloading 89 332 34,572 90 650 63,613 85 492 11,454 86 396 14,346 87 312 13,709 88 275 13,034 89 299 14,938 88 15,572 | Call Unloading Loading 89 332 34,572 38,602 90 650 63,613 67,489 85 492 11,454 411 86 396 14,346 690 87 312 13,709 724 88 275 13,034 721 89 299 14,938 1,079 88 15,572 1,624 | Call Unloading: Loading Total 89 332 34,572 38,602 73,174 90 650 63,613 67,489 131.102 85 492 11,454 411 11,865 86 396 14,346 690 15,036 87 312 13,709 724 14,433 88 275 13,034 721 13,755 89 299 14,938 1,079 16,017 88 15,572 1,624 17,196 | Call Unloading Loading Total Unboading 89 332 34,572 38,602 73,174 8,343 90 650 63,613 67,489 131,102 8,243 85 492 11,454 411 11,865 6,284 86 396 14,346 690 15,036 4,139 87 312 13,709 724 14,433 5,403 88 275 13,034 721 13,755 7,280 89 299 14,938 1,079 16,017 7,910 88 15,572 1,624 17,196 15,196 | Call Unloading Loading Total Unboading Boading 89 332 34,572 38,602 73,174 8,343 7,372 90 650 63,613 67,489 131,102 8,243 7,359 85 492 11,454 411 11,865 6,284 7,222 86 396 14,346 690 15,036 4,139 5,415 87 312 13,709 724 14,433 5,403 7,148 88 275 13,034 721 13,755 7,280 8,846 89 299 14,938 1,079 16,017 7,910 7,870 88 15,572 1,624 17,196 4 5,403 7,148 4 4 4 4 | Call Unloading Loading Total Unboading Boading Total 89 332 34,572 38,602 73,174 8,343 7,372 15,715 90 650 63,613 67,489 131,102 8,243 7,359 15,602 85 492 11,454 411 11,865 6,284 7,222 13,506 86 396 14,346 690 15,036 4,139 5,415 9,554 87 312 13,709 724 14,433 5,403 7,148 12,551 88 275 13,034 721 13,755 7,280 8,846 16,126 89 299 14,938 1,079 16,017 7,910 7,870 15,780 88 15,572 1,624 17,196 0 0 0 |

Table 2-2-10A Sea Transportation Volume in the Ports of Biak/Serui/Nabire

| No. | Sector | 1987 | 1988 | 1989 |
|-----|-----------------------|------------------------|------------------|---------------|
| 1. | Agriculture | 449,543,195 | 493,202,789 | 542,779,277 |
| | | 316,017,719 | 325,218,478 | 193,066,728 |
| 2. | Mining | 4,423,035 | 4,869,852 | 6,135,552 |
| | | 3,128,624 | 3,324,823 | 3,719,989 |
| 3. | Industry | 16,860,481 | 18,187,484 | 19,921,078 |
| | : | 12,572,047 | 12,692,077 | 13,095,570 |
| 4. | Electricity, | 5,739,223 | 7,108,774 | 7,993,227 |
| | Gas & Water Supply | 3,661,051 | 4,255,107 | 4,488,409 |
| 5. | Construction | 27,074,088 | 34,738,256 | 39,355,188 |
| | | 19,129,611 | 21,707,605 | 23,717,801 |
| 6. | Trade | 100,109,737 | 108,176,615 | 121,881,894 |
| | | 73,400,203 | 76,116,692 | 80,789,809 |
| 7. | Transport & | 65,581,084 | 76,089,347 | 87,887,932 |
| | Communication | 46,992,186 | 52,395,496 | 56,892,360 |
| 8. | Bank & Other | 11,027,594 | 12,538,146 | 14,947,915 |
| | Financial Office | 7,934,458 | 8,476,043 | 4,525,225 |
| 9. | House Rental | 15,748,634 | 17,017,101 | 18,552,091 |
| | | 10,941,730 | 11,098,379 | 11,282,911 |
| 10. | Government | 113,876,251 | 144,150,232 | 157,545,517 |
| | | 100,578,208 | 102,370,354 | 108,065,538 |
| 11. | Services | 18,904,187 | 21,477,073 | 23,254,320 |
| | | 13,449,640 | 14,360,313 | 14,877,970 |
| | Total | 848,887,509 | 937,553,669 | 1,040,253,991 |
| | | 607,805,477 | 632,015,367 | 666,902,598 |
| | | | 8,306,972 thousa | nd rupiah |
| | .* . | upper: at lower: at | current prices | |

Table 2-3-1A Gross Regional Domestic Product of East Nusa Tenggara in thousand rupiah

| | | | | · · · · · · · · · · · · · · · · · · · |
|-----|-----------------------|------------|------------|---------------------------------------|
| No. | Sector | 1987 | 1988 | 1989 |
| 1. | Agriculture | 29,941,930 | 33,161,539 | 35,836,214 |
| | | 21,211,096 | 22,170,736 | 22,752,241 |
| 2. | Mining | 189,867 | 203,237 | 276,966 |
| | | 138,498 | 145,142 | 173,576 |
| 3. | Industry | 1,824,889 | 1,837,294 | 2,020,776 |
| | | 1,279,259 | 1,244,344 | 1,279,635 |
| 4. | Electricity, | 264,164 | 312,669 | 359,078 |
| | Gas & Water Supply | 194,546 | 211,668 | 228,761 |
| 5. | Construction | 894,226 | 1,174,164 | 1,408,009 |
| | ··· . | 636,732 | 763,684 | 886,656 |
| 6. | Trade | 5,595,560 | 6,072,946 | 6,771,949 |
| | | 3,984,462 | 4,201,713 | 4,378,882 |
| 7. | Transport & | 3,989,027 | 4,730,371 | 5,721,815 |
| | Communication | 2,858,566 | 3,308,039 | 3,713,328 |
| 8. | Bank & Other | 422,868 | 507,889 | 684,796 |
| | Financial Office | 266,022 | 297,239 | 381,920 |
| 9. | House Rental | 1,510,554 | 1,633,336 | 1,785,926 |
| | | 968,959 | 982,123 | 996,966 |
| 0. | Government | 11,832,562 | 12,628,893 | 13,529,963 |
| | | 8,662,700 | 8,696,387 | 8,930,079 |
| 1. | Services | 1,937,498 | 2,110,231 | 2,167,300 |
| | · | 1,266,857 | 1,299,786 | 1,301,805 |
| | Total | 58,403,145 | 64,372,569 | 70,552,782 |
| | · | 41,467,697 | 43,321,461 | 45,023,849 |

Table 2-3-2A Gross Regional Domestic Product of kabupaten Flores Timur in thousand rupiah

| lo Costor | 1987 | 1988 | 1989 |
|------------------|------------|-------------------|------------|
| lo. Sector | 1907 | 1300 | 1909 |
| 1. Agriculture | 25,880,489 | 28,547,154 | 30,755,269 |
| | 18,147,138 | 18,747,119 | 19,417,037 |
| 2. Mining | 228,167 | 306,673 | 374,398 |
| | 166,436 | 211,806 | 227,645 |
| 3. Industry | 414,644 | 401,097 | 456,267 |
| | 300,609 | 275,961 | 291,908 |
| 4. Electricity, | 144,308 | 185,232 | 196,406 |
| Gas & Water | 99,848 | 118,805 | 120,054 |
| Supply | | | |
| 5. Construction | 1,066,633 | 1,300,807 | 1,485,329 |
| J. CONSCIDENTION | 828,517 | 866,627 | 903,028 |
| · | 0107017 | , | |
| 6. Trade | 4,677,611 | 5,146,199 | 5,763,019 |
| | 1,425,123 | 1,644,830 | 1,811,715 |
| 7. Transport & | 2,151,833 | 2,593,475 | 3,035,954 |
| Communication | 1,425,123 | 1,644,830 | 1,811,715 |
| 8. Bank & Other | 484,455 | 617,644 | 724,031 |
| Financial Office | 376,260 | 434,926 | 475,559 |
| 9. House Rental | 916,920 | 950,813 | 1,023,839 |
| | 645,072 | 645,648 | 650,045 |
| 10 Conormont | 5,954,131 | 6,269,551 | 6,723,630 |
| 10. Government | 5,166,274 | 5,301,332 | 5,515,693 |
| | 0,100,411 | 0,002,002 | -,,0 |
| 11. Services | 1,363,553 | 1,456,480 | 1,553,034 |
| | 986,241 | 1,007,312 | 1,024,938 |
| Total | 43,282,744 | 47,895,125 | 52,091,176 |
| | 31,590,807 | 32,824,945 | 34,222,055 |
| | 1983 • 2 | 9,192,233 thousa | nd rupiah |
| | | it current prices | |
| | • - | it constant 1983 | prices |

Table 2-3-3A Gross Regional Domestic Product of Kabupaten Alor in thousand rupiah

| DESCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
|------------------|------------|-----------|-------------|-----------|--------------|
| State | 1,120.28 | 1,115.80 | | 1,178.78 | |
| Province | 1,790.59 | 1,656.40 | 1,684.345 | 1,688.94 | 5 1,889.90 |
| Kabupaten | 10,524.699 | 10,488.14 | 10,699.13 | 11,014.17 | 11,782.03 |
| Total | 13,435.529 | 13,260.34 | 13,499.255 | 13,881.89 | 5 14,845.71 |
| Type of surface | | | a di a comp | | |
| 1. Asphalted | 2,581.93 | 2,803.15 | 2,651.611 | 3,203.1 | 92 4,064.34 |
| 2. Gravel | 3,918.85 | 5,322.90 | 3,652.885 | 4,166.2 | 15 3,552.01 |
| 3. Earth | 6,768.25 | 4,658.06 | - | 5,880.1 | 88 6,594.96 |
| 4. Unspecified | 166.50 | 1,028.32 | 765.0 | 632.3 | 0 634.40 |
| Total | 13,435.53 | 13,812.43 | 13,499.255 | 13,881.8 | 95 14,845.71 |
| Road condition : | | | | | |
| 1. Good | 2,411.68 | 2,378.65 | 2,882.17 | 2,539.93 | 9 3,259.80 |
| 2. Moderate | 4,323.61 | 4,655.77 | 3,611.73 | 4,329.80 | 4 2,571.24 |
| 3. Damage | 2,915.54 | 4,555.62 | 3,611.73 | 4,697.16 | 1 5,114.70 |
| 4. Heavy damage | 3,784.71 | 2,222.39 | | 2,315.00 | 3,899.71 |
| Total | 13,435.53 | 13,812.43 | 13,499.26 | 13,881.89 | 5 14,845.71 |

Table 2-3-4A Length of Road in East Nusa Tenggara (km)

Table 2-3-5A Length of Road in Kabupaten Alor (km)

| DESCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
|-------------------|--------|--------|--------|--------|--|
| State | _ | | ~ | | |
| Province | 86.00 | 78.00 | 86.00 | 86.00 | 86.00 |
| Kabupaten | 710.00 | 710.00 | 766.50 | 817.30 | 763.10 |
| Total | 796.00 | 988.00 | 852.50 | 903.30 | 849.10 |
| Type of surface : | | | · · · | | $(1,\ldots,n) = (1,\ldots,n) \in \mathbb{R}^{n}$ |
| 1. Asphalted | 88.0 | 92.18 | 289.1 | 0 165 | .10 116.15 |
| 2. Gravel | 206.0 | 212.40 | 198.8 | | .68 144.05 |
| 3. Earth | 502.0 | 483.43 | 364.6 | | .52 588.90 |
| 4. Unspecified | | | - | _ | - |
| Total | 796.0 | 788.0 | 852.5 | 0 903 | .30 849.10 |
| Road condition : | | | e | | |
| 1. Good | 286.0 | 286.0 | 576.0 | 162 | .80 70.40 |
| 2. Moderate | 462.5 | 451.43 | 154.0 | | .23 45.75 |
| 3. Damage | 48.5 | 50.0 | 60.5 | | .42 144.05 |
| 4. Heavy damage | | | 62 | | .85 588.90 |
| Total | 796.0 | 788.00 | | 0 903 | .30 849.10 |

| DESCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
|-------------------|----------|---|------------|---------|----------|
| State | 66.90 | 66.0 | 66.90 | 66.90 | 66.90 |
| Province | 87.00 | 85.0 | 87.00 | 87.00 | 107.85 |
| Kabupatèn | 978.50 | 978.57 | 824.60 | 824.60 | 982.35 |
| Total | 1,132.40 | 1,129.57 | 978.50 | 978.50 | 1,157.35 |
| Type of surface : | | | | | |
| 1. Asphalted | 115.12 | 123.92 | 139.77 | 175.081 | 250.20 |
| 2. Gravel | 244.64 | 295.19 | 236.15 | 293.95 | 286.95 |
| 3. Earth | 618.74 | 556.49 | 602.58 | 509.469 | 620.20 |
| 4. Unspecified | 153.90 | 153.97 | * | | |
| Total | 1,132.40 | 1,129.57 | 978.50 | 978.50 | 1,157.35 |
| Road condition : | | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | | |
| 1. Good | 110.02 | 91.22 | 184.82 | 218,72 | 187.60 |
| 2. Moderate | 728.08 | 288.89 | 263.69 | 282.69 | 68.30 |
| 3. Damage | 140.40 | 749.46 | 529.99 | 477.08 | 901.45 |
| 4. Heavy damage | 153.90 | - | ⊷ . | - | - |
| Total | 1,132.40 | 1,129.57 | 978.50 | 978.50 | 1,157.3 |

Table 2-3-6A Length of Road in Kabupaten Flores Timur (km)

| DESCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
|---------------|--------|--------|--------|--------|--------|
| Motorcycle | 24,473 | 26,359 | 24,473 | 27,179 | 27,816 |
| Jeep | 2,383 | 2,416 | 2,514 | 2,514 | 2,629 |
| Passenger car | 861 | 899 | 1,097 | 1,097 | 1,216 |
| Micro bus | 1.852 | 1,682 | 2,117 | 2,117 | 3,358 |
| Truck | 3,890 | 5,948 | 6,418 | 6,418 | 6,560 |

Table 2-3-7A Number of Vehicles in East Nusa Tenggara

Table 2-3-8A Number of Vehicles in Kabupaten Alor

| | | · · · · | | | | 1.1 |
|---------------|------|---------|------|------|---|----------|
| DESCRIPTION | 1986 | 1987 | 1988 | 1990 | | |
| Motorcycle | 638 | 677 | 655 | 725 | | 1. 1. |
| Jeep | 36 | 36 | 35 | 42 | | |
| Passenger car | 3 | 3 | 4 | 17 | · | |
| Micro bus | 19 | 19 | 26 | 91 | | |
| Truck | 182 | 172 | 172 | 109 | | |

Table 2-3-9A Number of Vehicles in Kabupaten Flores Timur

| 1986 | 1987 | 1988 | 1990 |
|-------|-------------------------|--|--|
| 1,559 | 1,617 | 1,619 | 1,593 |
| 119 | 119 | 46 | 60 |
| 2 | 2 | 13 | 4 |
| 49 | 49 | 88 | 87 |
| 362 | 362 | 362 | 442 |
| | 1,559 119 2 49 | 1,559 1,617 119 119 2 2 49 49 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

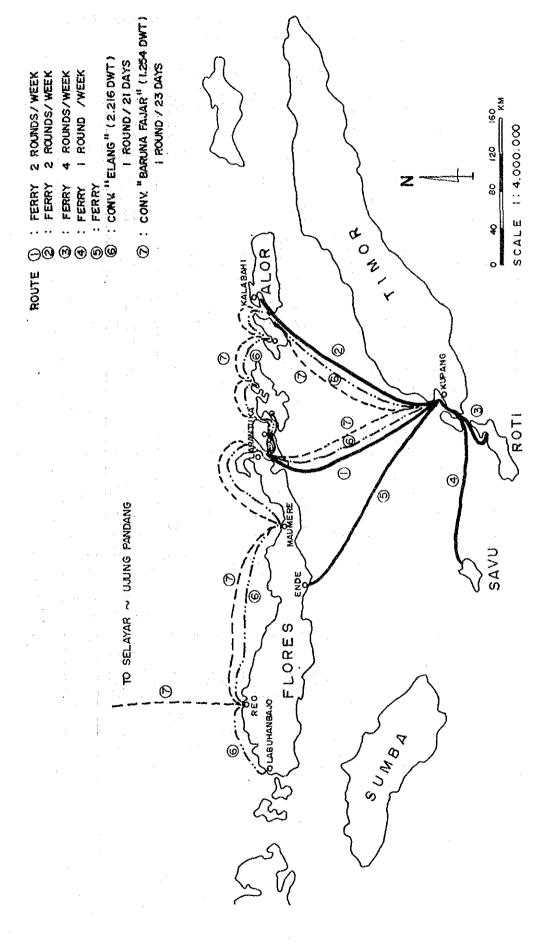


Fig. 2-3-1A Sea Transportation Network

| | | | and the second | - | منعميتت هدمه | | |
|-------------|------|------|---|--------------|--------------|-------|-------|
| Route | Year | Trip | Passenger | | Vehi | | Cargo |
| | | | | <u>V-2</u> | <u>V-4</u> | Total | T/M3 |
| | 91 | 106 | 21,118 | | | 310 | 679 |
| Larantuka | 90 | 116 | 23,998 | | 1 | 304 | 624 |
| Kupang | 89 | 121 | 21,630 | 77 | 126 | 203 | 527 |
| | 88 | 115 | 16,528 | | | 141 | 571 |
| | | | | | | | |
| | 90 | 83 | 1,413 | | | 44 | 2 |
| Larantuka | 89 | 212 | 3,209 | 53 | 6 | 59 | 5 |
| Waiwerang | 88 | | 1,544 | |] | 23 | 100 |
| 102102 | | | | | · . | | |
| | 90 | 83 | 504 | | | 5 | 3 |
| Waiwerang | 89 | 211 | 515 | 8 | 0 | 8 | 102 |
| Lewoleba | 88 | , | 1,075 | |] | | |
| Lonoroud | | | | | | | |
| · | 90 | 83 | 2,302 | - <u>1</u> | | 103 | 87 |
| Larantuka | 89 | 211 | 8,631 | 157 | 16 | 173 | 528 |
| Lewoleba | 88 | | 3,129 | | | 18 | 194 |
| Denoroba | | | | | | | |
| | 90 | 82 | 3,412 | | | 63 | 53 |
| Waiwerang | 89 | 211 | 1,793 | 17 | 0 | 17 | 0 |
| Larantuka | 88 | | 400 | | | | |
| Lat anotha | | | | | | | |
| | 90 | 82 | 897 | | | 5 | 2 |
| Lewoleba | 89 | 211 | 1,383 | 11 | 0 | 11 | 7 |
| Waiwerang | 88 | | 451 | . | 1 | | } |
| HAT BOT OUP | | | | | | [| 1 |
| | 90 | 82 | 4,227 | | | 92 | 10 |
| Lewoleba | 89 | 211 | 6,951 | 88 | 6 | 94 | 229 |
| Larantuka | 88 | | 3,400 | | | 32 | 29 |
| Larantura | 1.00 | L | 0, 100 | | | | |

Table 2-3-10A Ferry Transportation Volume on the Route of Larantuka/Waiwerang/Lewoleba

*Source: Perum ASDP Branch Office

Table 2-3-11A Passenger Transportation Volume by PELNI in 1991

| | | · · · · · · | ě | |
|----------------|-----------|-------------|----------|---------------------|
| | Ship Call | To/From | To/From | To/From Ujung P. |
| | | Kalabahi | Kupang | Ujung P. |
| From Larantuka | 40 | 112 | 184 | 60 |
| To Larantuka | 40 | 99 | 746 | 17 |
| | | | <u> </u> | |

*Source: PELNI Branch Office

Table 2-3-12AThe Results of Survey by Questionnaire for Ferry Passengers
on the Routes of Kalabahi - Kupang and Larantuka - Kupang

1. Occupation

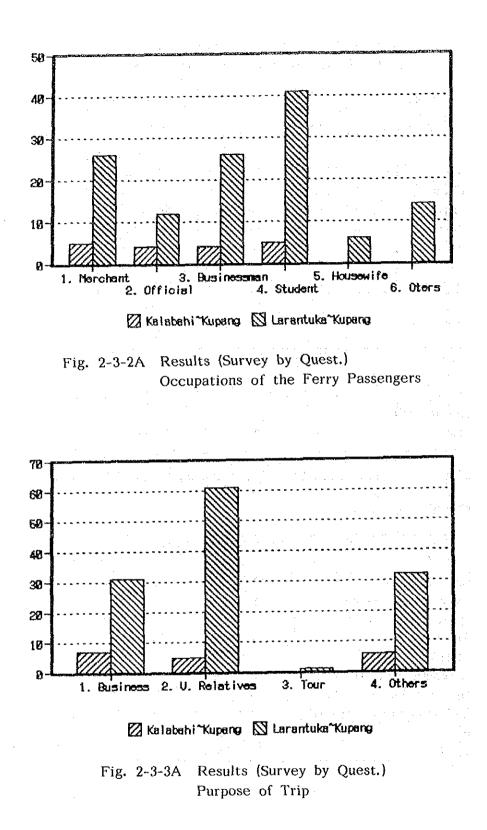
| | Kalabahi~Kup. | | Larantuk | ta~Kup. | Total | | |
|----------------|---------------|-------|----------|---------|-------|-------|--|
| | | Х | | х | | K | |
| 1. Merchant | 5 | 27.8 | 26 | 20.8 | 31 | 21.7 | |
| 2. Official | 4 | 22.2 | 12 | 9.6 | 16 | 11.2 | |
| 3. Businessman | 4 | 22.2 | 26 | 20.8 | 30 : | 21.0 | |
| 4. Student | 5 | 27.8 | 41 | 32.8 | 46 | 32.2 | |
| 5. Housewife | 0 | 0.0 | 6 | 4.8 | 6 | 4.2 | |
| 6. Oters | 0 | 0.0 | 14 | 11.2 | - 14 | 9.8 | |
| Total | 18 | 100.0 | 125 | 100.0 | 143 : | 100.0 | |

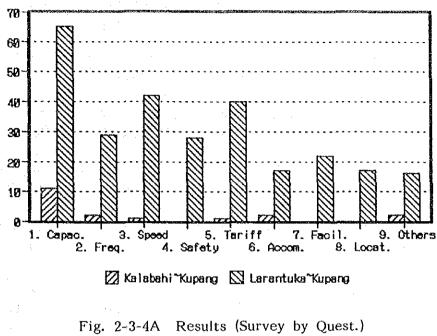
2. Purpose of Trip

| | Kalabahi~Kup. | | Larantul | ka~Kup. | Total | |
|-----------------------|---------------|-------|----------|---------|-------|-------|
| | | % | | % | - | % |
| 1. Business | 7 | 38.9 | 31 : | 24.8 | 38 | 26.6 |
| 2. Visiting Relatives | 5 | 27.8 | 61 | 48.8 | 66 | 46.2 |
| 3. Tour | 0 | 0.0 | 1 | 0.8 | 1 | 0.7 |
| 4. Others | 6 | 33.3 | 32 | 25.6 | 38 | 26.6 |
| Total | 18 | 100.0 | 125 | 100.0 | 143 | 100.0 |

3. Request to Ferry Service

| | Kalabah | ui≁Kup. | Larantuk | a∼Kup. | Total | |
|--------------------------------|---------|---------|----------|--------|-------|-------|
| | | % | | % | | % |
| 1. Capacity of Ferry Boat | 11 | 57.9 | 65 - | 23.6 | 76 | 25.8 |
| 2. Frequency of Service | 2 | 10.5 | 29 | 10.5 | 31 | 10.5 |
| 3. Speed of Ferry Boat | 1 | 5.3 | 42 | 15.2 | 43 | 14.6 |
| 4. Safety/Stability | 0 | 0.0 | 28 | 10.1 | 28 | 9.5 |
| 5. Tariff | 1 | 5.3 | 40 | 14.5 | 41 | 13.9 |
| 6. Accommodation of Ferry Boat | 2 | 10.5 | 17 | 6.2 | 19 | 6.4 |
| 7. Ferry Terminal Facility | 0 | 0.0 | 22 | 8.0 | 22 | 7.5 |
| 8. Location of Ferry Terminal | 0 | 0.0 | 17 | 6.2 | 17 | 5.8 |
| 9. Others | 2 | 10.5 | 16 | 5.8 | 18 : | 6.1 |
| Total | 19 | 100.0 | 276 | 100.0 | 295 | 100.0 |





equest for Ferry Service

| | | | · · · | |
|-----|-----------------------|------------|---------------------------------|------------|
| No. | Sector | 1986 | 1987 | 1988 |
| 1 | Agriculture | 183,121.30 | 205,821.53 | 247,371.04 |
| 1. | ngriourtaro | 163,046.16 | 171,139.90 | 179,023.77 |
| 2. | Mining | 20,940.67 | 18,230.88 | 76,344.08 |
| | - - | 19,171.67 | 10,735.15 | 23,330.51 |
| 2 | Industry | 6,959.45 | 8,372.12 | 11,016.01 |
| э. | Industry | 5,629.13 | 6,748.22 | 7,791.81 |
| 4. | Electricity, | 1,950.34 | 2,149. | 2,417.77 |
| | Gas & Water Supply | 1,515.60 | 1,672.74 | 1,924.04 |
| F | | 1,607.94 | 15,755.46 | 17,841.04 |
| 5. | Construction | 9,759.49 | 12,121.29 | 12,622.78 |
| 6. | Trade | 55,003.39 | 69,774.89 | 82,704.34 |
| | | 47,323.88 | 52,357.81 | 54,477.36 |
| 7. | Transport & | 47,805.69 | 53,933.23 | 59,116.49 |
| | Communication | 44,919.37 | 48,155.85 | 50,219.69 |
| 8. | Bank & Other | 3,580.39 | 4,241,98 | 4,444.41 |
| | Financial Office | 3,146.96 | 3,418.20 | 3,641.11 |
| 9. | House Rental | 20,454.17 | 21,922.80 | 24,001.95 |
| | | 15,300.32 | 16,196.24 | 16,826.03 |
| 10. | Government | 63,869.41 | 77,359.05 | 99,182.62 |
| | | 53,698.85 | 60,114.61 | 67,210.14 |
| 11. | Services | 1,589.53 | 4,370.19 | 5,078.79 |
| | | 2,843.61 | 3,353.11 | 3,711.01 |
| | Total | 418,882.28 | 481,932.58 | 629,518.52 |
| | | 366,355.04 | 386,013.12 | 420,778.25 |
| | | | 94,271.67 millio | |
| | | | current prices constant 1983 | |

Table 2-4-1A Gross Regional Domestic Product of South-east Sulawesi in million rupiah

| No. Sector | 1986 | 1987 | 1988 | 1989 |
|-----------------------|------------|------------|------------|------------|
| 1. Agriculture | 51,722.26 | 55,432.43 | 38,976.02 | 59,514.72 |
| | 46,692.54 | 47,909.96 | 44,504.53 | 45,166.70 |
| 2. Mining | 2,279.11 | 1,646.20 | 1,900.04 | 1,671.55 |
| | 3,584.12 | 2,060.50 | 1,821.37 | 1,325.89 |
| 3. Industry | 1,049.55 | 1,233.96 | 1,579.97 | 2,248.95 |
| | 789.44 | 951.66 | 1,115.70 | 1,459.12 |
| 4. Electricity, | 309.04 | 376.72 | 417.38 | 512.48 |
| Gas & Water Supply | 243.06 | 294.51 | 338.01 | 367.79 |
| 5. Construction | 3,834.52 | 5,036.52 | 5,702.98 | 6,645.10 |
| | 3,223.92 | 3,874.63 | 4,034.93 | 4,425.65 |
| 6. Trade | 15,666.07 | 18,650.46 | 20,759.69 | 21,944,36 |
| | 13,810.12 | 14,506.25 | 15,123.06 | 15,229.14 |
| 7. Transport & | 6,022.86 | 6,727.09 | 7,315.44 | 8,994.06 |
| Communication | 5,557.52 | 5,864.79 | 6,038.77 | 7,429.26 |
| 8. Bank & Other | 145.37 | 129.46 | 83.30 | 149.92 |
| Financial Off | ice 138.60 | 110.36 | 115.61 | 104.95 |
| 9. House Rental | 6,526.20 | 7,015.13 | 7,515.03 | 7,697.42 |
| | 4,885.02 | 5,182.53 | 5,268.69 | 5,273.70 |
| 10.Government | 16,406.10 | 21,783.37 | 29,344.25 | 34,579.74 |
| | 13,793.59 | 16,904.55 | 19,852.43 | 22,287.93 |
| 11. Services | 718.26 | 983.11 | 1,123.21 | 1,166.68 |
| | 571.35 | 764.04 | 830.45 | 827.0 |
| Total | 104,689.44 | 119,014.56 | 134,717.35 | 145,125.25 |
| | 93,289.41 | 98,439.86 | 99,033.55 | 103,897.14 |

Table 2-4-2AGross Regional Domestic Product of Kabupaten Buton
in million rupiah

1983 : 84,250.03 million rupiah upper : at current prices lower : at constant 1983 prices

| ю. | Sector | 1986 | 1987 | 1988 | 1989 |
|----|----------------|--------------|------------|--------------|--------------|
| 1. | Agriculture | 51,458.32 | 63,284.95 | 80,505.80 | 90,622.29 |
| | | 46,112.07 | 52,401.65 | 59,117.25 | 61,472.15 |
| 2. | Mining/excavat | ing 1,094.47 | 1,563.03 | 1,769.83 | 2,214.24 |
| | | 1,056.70 | 1,490.31 | 1,567.61 | 1,756.35 |
| 3. | Industry | 459.30 | 5,295.33 | 6,967.21 | 8,331.44 |
| _ | . • | 3,657.21 | 4,348.66 | 4,899.76 | 5,372.14 |
| 4. | Electricity | 1,186.02 | 1,289.75 | 1,464.74 | 1,852.59 |
| | & Water Supply | 956.04 | 1,017.27 | 1,186.79 | 1,259.22 |
| 5. | Construction | 4,821.83 | 7,037.99 | 7,969.11 | 9,285.61 |
| | | 4,054.00 | 5,414.26 | 5,638.26 | 6,184.22 |
| 6. | Trade | 18,750.35 | 25,127.22 | 30,465.37 | 34,855.75 |
| | | 15,998.68 | 18,533.72 | 20,477.96 | 21,014.60 |
| 7. | Transport & | 31,894.26 | 36,135.75 | 39,805.54 | 44,283.56 |
| | Communication | 29,985.36 | 32,326.29 | 33,858.16 | 37,829.78 |
| 8 | Finance & | 10,278.92 | 11,229.66 | 11,982.80 | 13,366.79 |
| 0. | House Rental | 8,051.55 | 8,520.99 | 8,754.02 | 9,492.11 |
| q | Services | 27,114.66 | 30,593.83 | 37,358.75 | 44,221.61 |
| 5. | 00111000 | 22,720.75 | 23,761.65 | 25,428.25 | 28,638,64 |
| | Total | 151,058.13 | 181,557.51 | 218,289.15 | 249,033.85 |
| | IULAI | 132,592.36 | 147,814.80 | 160,928.06 | 173,019.21 |
| | | | 1983 : | 91,101.10 mi | llion rupiah |
| | | | upper: | at current p | rices |

Table 2-4-3A Gross Regional Domestic Product of Kabupaten Kendari in million rupiah

| per capita (in million rupiah) |
|---------------------------------|
| 430,393.75 |
| 369,045.01 |
| 475,066.34 |
| 349,448.32 |
| 816,705.00 |
| 422,474.80 |
| 946,666.59 |
| 492,500.27 |
| |

Table 2-4-4A Gross Regional Domestic Product of Kabupaten Kolaka

Table 2-4-5A Length of Road in South East Sulawesi (km)

| | State | | Province | | Kabupaten | | Total | |
|------|-----------|----------------|-----------|--------|-----------|----------|------------|---------|
| Year | Asphalted | Not | Asphalted | Not | Asphalted | Not | Asphalted | Not |
| 1985 | 197 | | 364 | 727 | 549 | 3,227 | 1,110 | 3,934 |
| 1986 | 197 | · · · | 364 | 727 | 666 | 3,335 | 1,227 | 4,062 |
| 1987 | 197 | · | 400 | 692 | 709 | 3,293 | 1,306 | 3,985 |
| 1988 | 197 | ~ . | 401 | 691 | 1,325 | 2,986 | 1,923 | 3,677 |
| 1989 | 309.34 | 27.21 | 380.71 | 647.35 | 1,120.40 | 2,982.24 | 1 1,810.45 | 3,656.8 |

Sources : Department of Public Works Regional Office in South East Sulawesi Province, Kabupaten Public Works Office in all South East Sulawesi.

| DESCRIPTION | State | Province | Kabupaten | Total |
|-------------------------|--------|----------|-----------|----------|
| 1. Type of surface : | | - | | |
| 1. Asphalted | 309.34 | 380.71 | 1,120.40 | 1,810.45 |
| 2. Gravel | 27.21 | 419.41 | 1,038.60 | 1,485.32 |
| 3. Earth | _ | 225.84 | 981.05 | 1,206.89 |
| 4. Unspecified | | 2.00 | 962.59 | 964.59 |
| 4. Unspecified Total | 336.55 | 1,028.06 | 4,102.64 | 5,467.25 |
| 2. Road condition : | · · · | | | |
| 1. Good | 64.94 | 380.71 | 1,083.90 | 1,529.55 |
| 2. Moderate | 131.44 | 355.90 | 1,004.90 | 1,492.24 |
| 3. Damage | 140.17 | 63.61 | 801.20 | 1,004.98 |
| 4. Heavy damage | | 227.84 | 1,212.64 | 1,440.48 |
| 5. Unspecified | ; - | - | - | |
| Total | 336.55 | 1,028.06 | 4,102.64 | 5,467.25 |

Table 2-4-6A Length of Road in South East Sulawesi Province in 1989 (km)

Sources : 1. Public Work Offices in all South East Sulawesi.

 Department of Public Work Regional Office in South East Sulawesi Province.

Table 2-3-7A Length of Road in Kabupaten Buton (km)

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 |
|----------------------|-------|-------|-------------------|-------|--------------|
| 1. Type of surface : | | | | | · · · · · |
| 1. Asphalted | 162 | 239 | 260 | 397 | 283 |
| 2. Gravel | 382 | 470 | 449 | 282 | 302 |
| 3. Earth | 514 | 514 | 525 | 112 | 212 |
| 4. Unspecified | | - | - 1 1 | 433 | 17 |
| Total | 1,058 | 1,223 | 1,224 | 1,224 | 1,230 |
| 2. Road condition : | | | | | 450 |
| 1. Good | 440 | 324 | 345 | 397 | 450 |
| 2. Moderate | 252 | 187 | 187 | 182 | 256 |
| 3. Damage | 156 | 672 | 66 | 112 | 92 |
| 4. Heavy damage | 210 | 1,640 | 626 | - | 432 |
| 5. Unspecified | - | | - | 433 | . |
| Total | 1,058 | 1,223 | 1,224 | 1,224 | 1,230 |

| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 |
|----------------------|-------|----------|-------|-------|----------|
| 1. Type of surface : | | | | | |
| 1. Asphalted | 227 | 227 | 276 | 446 | 218.40 |
| 2. Gravel | 369 | 369 | 523 | 122 | 376.60 |
| 3. Earth | 617 | 617 | 380 | 175 | 199.40 |
| 4. Unspecified | 223 | 223 | 257 | 693 | 297.00 |
| Total I | 1,436 | 1,436 | 1,436 | 1,436 | 1,091.40 |
| | | | | | |
| 2. Road condition : | | | | | |
| 1. Good | 672 | 672 | 80 | 446 | 218.40 |
| 2. Moderate | 342 | 342 | 383 | 122 | 376.60 |
| 3. Damage | 352 | 352 | 167 | 175 | 199.40 |
| 4. Heavy damage | 70 | 70 | 210 | - | 297.00 |
| 5. Unspecified | _ | <u>-</u> | 596 | 693 | - |
| Total II | 1,436 | 1,436 | 1,436 | 1,436 | 1,091.40 |

Table 2-4-8A Length of Road in Kabupaten Kendari (km)

Sources : 1. Public Works Office in all South East Sulawesi Provinces 2. Department of Public Works Regional Office in South East Sulawesi Province.

Table 2-4-9A Length of Road in Kabupaten Kolaka (km)

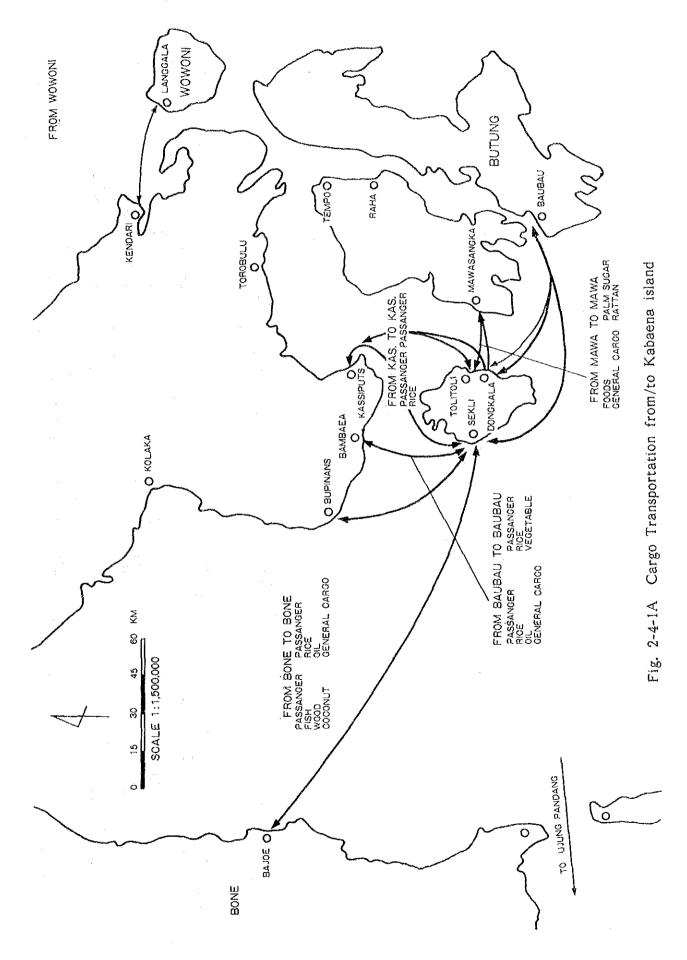
| DESCRIPTION | 1985 | 1986 | 1987 | 1988 | 1989 |
|----------------------|--|------|------------|------|------|
| 1. Type of surface : | ······································ | | | | |
| 1. Asphalted | 129 | 129 | 9 5 | 334 | 384 |
| 2. Gravel | 459 | 459 | 284 | 164 | 135 |
| 3. Earth | 124 | 124 | 318 | 257 | 236 |
| 4. Unspecified | | - | 15 | 216 | 216 |
| Total I | 712 | 712 | 712 | 971 | 971 |
| 2. Road condition : | | | | | |
| 1. Good | - | | 95 | 334 | 231 |
| 2. Moderate | 117 | 117 | 284 | 164 | 98 |
| 3. Damage | 595 | 595 | 318 | 257 | 189 |
| 4. Heavy damage | - | | - | | 453 |
| 5. Unspecified | | - | - | 261 | - |
| Total II | 712 | 712 | 712 | 971 | 971 |

Sources : 1. Department of Public Works Regional Office in South East Sulawesi Province.

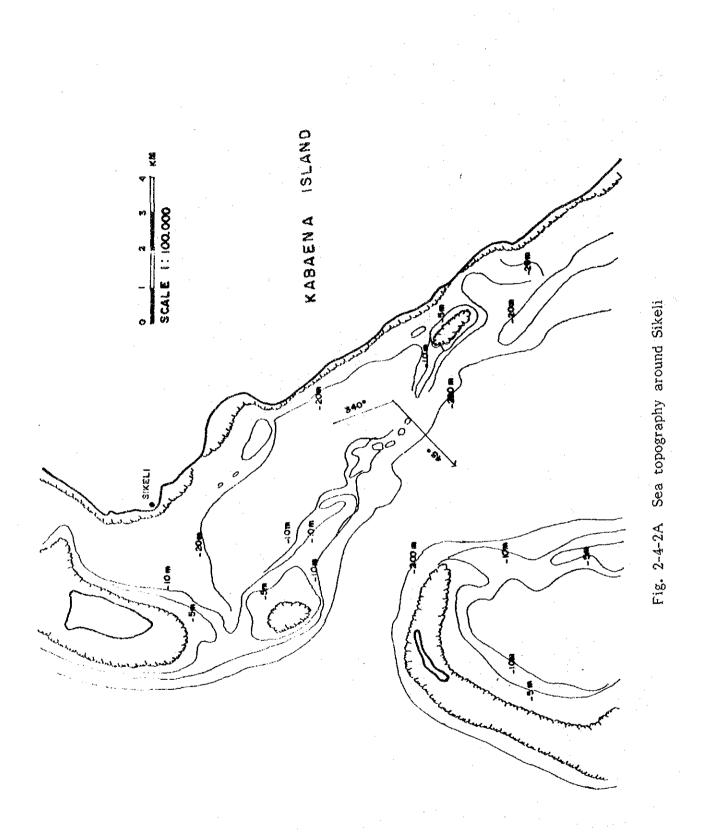
| DESCRIPTION 1985 | 1986 | 1987 | 1988 | 1989 |
|---|--------|--------|--------|--------|
| 1. Passenger car2,6242. Mini bus car4893. Commodities car1,6084. Motorcycle15,218 | 3,045 | 3,273 | 3,203 | 4,222 |
| | 534 | 612 | 715 | 839 |
| | 1,615 | 1,700 | 1,734 | 3,437 |
| | 15,510 | 16,290 | 17,153 | 17,282 |

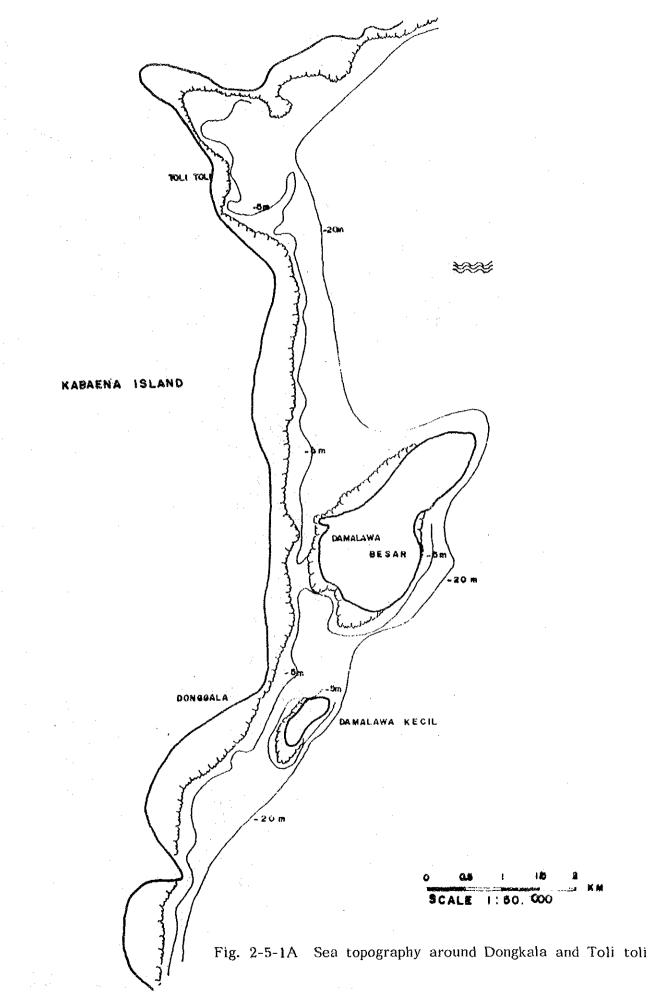
_

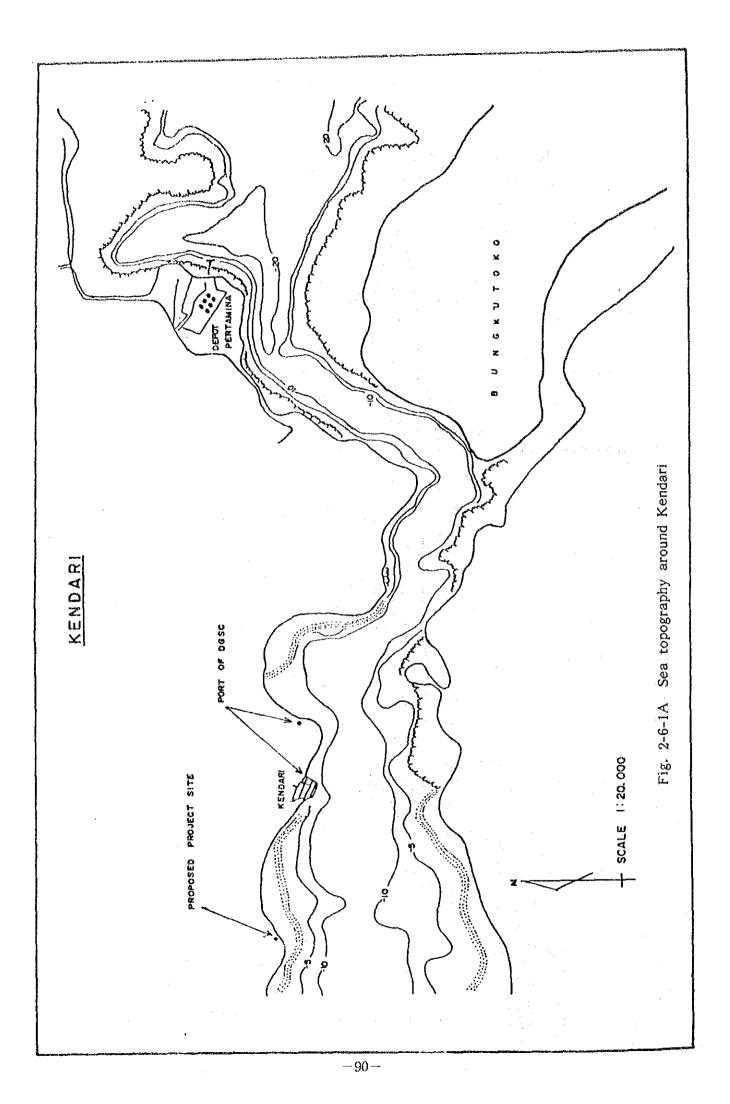
Table 2-4-10A Number of Vehicles in Kabupaten Kendari

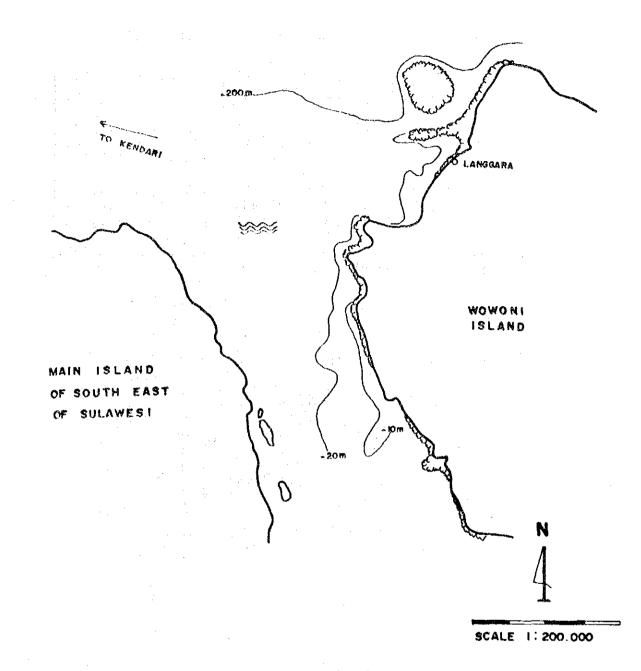


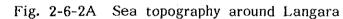
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| | and the second | | | | and the second |
|---|--|--|---|------------------------------|--|
| a a su a construction de la constru La construction de la construction d | 1987 | 1988 | 1989 | 1990 | 1991 |
| Call No. of Ship | 1970 | 1665 | 1381 | 1287 | 2583 |
| Passenger Landing Boarding Total | 41,632 34,202 75,834 | $\begin{array}{r} 41,371\\54,609\\95,980\end{array}$ | $\begin{array}{r} 45,450\\ 66,425\\ 111,875\end{array}$ | 62,511 93,606 156,117 | 74,892 94,304 169,196 |
| Cargo(ton) Unloading Loading Total | 43,596 48,997 92,593 | 137,796 73,465 211,261 | $162.224 \\ 41,463 \\ 203.687$ | $139,937 \\73,543 \\213,480$ | 154.616 88.089 242.705 |

Table 2-6-1A Statistic Data in Kendari Port

Source: The Sea Transportation in Southeast Sulawesi Province in 1987-1991 Kanwil of South Sulawesi Province, MOC

| | Year | Passenger | Vehicle | Cargo |
|---|------|-----------|---------|-------|
| | | | (unit) | (ton) |
| | 1987 | 13.348 | 1,326 | 433 |
| | 1988 | 14,240 | 1,397 | 775 |
| 1 | 1989 | 15,962 | 1,492 | 1,130 |

].....

19.34121.494

1990

1991

Table 2-6-2A Ferry Data of Torobulu/Tampo

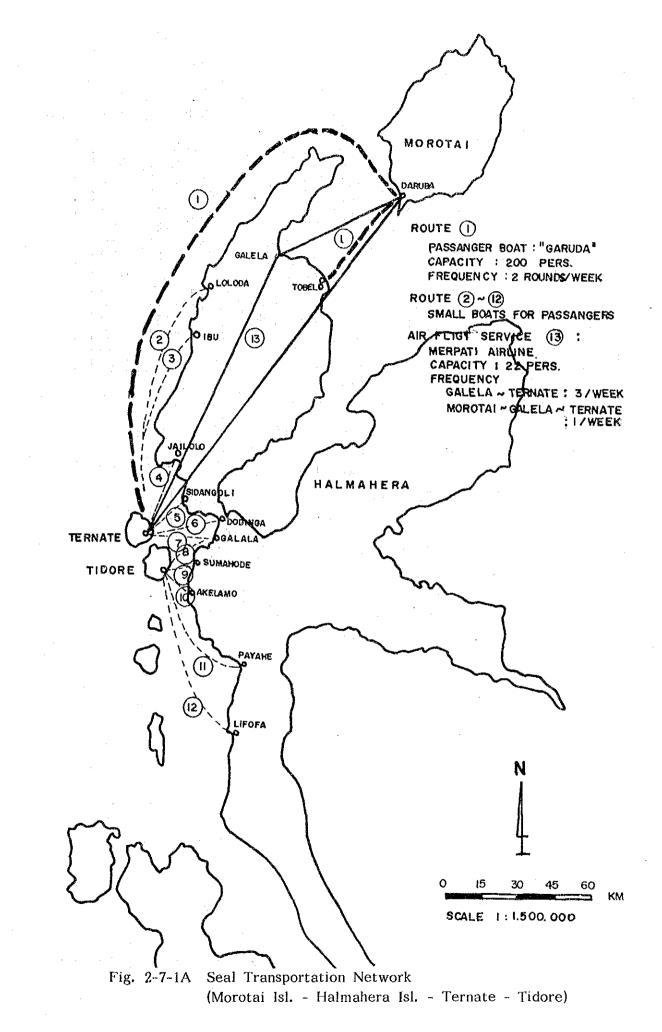
Source: Torobulu office of Perum ASDAP

1,686

1.700

1,677

796



| | | | | | | | | and the second se | and a second |
|---------------------|--------|----------|--------|---------|----------|--------|--------|---|--|
| Month | Fra | m Daruba | To | Fro | n Tobelo | To | Fro | m Ternat | |
| MUITUI | Tobelo | Ternate | TUTAL | Ternate | | TOTAL | Tobelo | Daruba | TOTAL |
| 1 | 718 | 825 | 1.543 | 545 | 756 | 1,301 | 664 | 128 | 792 |
| ····· <u>+</u> 2 | 448 | 600 | 1.048 | 417 | 757 | 1,174 | 581 | 94 | 675 |
| <u>4</u> 3 | 610 | 597 | 1,207 | 414 | 849 | 1,263 | 570 | 172 | 742 |
| 4 | 493 | 615 | 1,108 | 623 | 633 | 1,256 | 579 | 262 | 841 |
| -3 5 | 608 | 576 | 1.184 | 613 | 745 | 1,358 | 812 | 169 | 981 |
| 6 | 565 | 702 | 1,267 | 353 | 414 | 767 | 618 | 486 | 1,104 |
| 7 | 435 | 372 | 807 | 842 | 788 | 1,630 | 614 | 504 | 1,118 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 439 | 333 | 772 | 547 | 786 | 1,333 | 417 | 463 | 880 |
| 10 | 350 | 194 | 544 | 602 | 799 | 1,401 | 513 | 383 | 896 |
| 11 | 524 | 207 | 731 | 602 | 759 | 1,361 | 715 | 409 | 1,124 |
| 12 | 624 | 1,341 | 1,965 | 484 | 721 | 1,205 | 760 | 549 | 1,309 |
| Total | 5,814 | 6,362 | 12.176 | 6,042 | 8,007 | 14,049 | 6,843 | 3,619 | 10,462 |

Table 2-7-1A Passenger Transportation Volume of Tobelo/Daruba/Ternate by the Boat of KM GARUDA (PT KARBALA RAYA LINE) in 1991

*Source: PT KARBALA RAYA LINE

Table 2-7-2A Transportation Volume between Ternate Isl. and Halmahera Isl.

| | and the second | | ومحمد فستستعد |
|-------------|--|-------|---------------|
| Destination | Distance | Ship | Passenger |
| · · · | MIL. | | |
| 1 Jailolo | 17 | 216 | 234,600 |
| 2 Sidangoli | 9 | 248 | 716,147 |
| 3 Dodinga | 14 | 300 | 587,500 |
| 4 Ibu | 44 | 311 | 517.232 |
| 5 Galala | 10 | 280 | 297,118 |
| 6 Loloda | 55 | 1,400 | 58,260 |

*Source: DGSC Regional Office

| Port | Year | Ship | | Cargo | | | Passenger | |
|-----------|------|-------|-----------|----------|-----------|----------|-----------|---------|
| | | Call | Unloading | Loading | Total | Boading | Landing | Total |
| | | | | | | | | |
| Tobelo | 86 | 2,279 | 26,929 | 29,286 | 56,215 | 20,262 | 19,269 | 39,531 |
| | 87 | 2,324 | 26,115 | 29,837 | 55,952 | 31,928 | 29,131 | 61,059 |
| | 88 | 2,311 | 26,532 | 29,572 | 56,104 | 26,105 | 24,210 | 50,315 |
| | 89 | | | | 0 | | | 0 |
| | 90 | 657 | 33,555 | 40,326 | 73,881 | 22,211 | 21,569 | 43,780 |
| · · · · · | | | | | | | : | |
| | 86 | 251 | 1,994 | 4,278 | 6.272 | 2,449 | 3,786 | 6,235 |
| Daruba | 87 | 741 | 5,064 | 7,700 | 12,764 | 12,750 | 12,796 | 25,546 |
| | 88 | 675 | 5,429 | 3, 548 | 8,977 | 10,426 | 7,799 | 18,225 |
| | 89 | 852 | 21,000 | 16,135 | 37,135 | 12,661 | 12,034 | 24,695 |
| 1. | 90 | 562 | 3,288 | 5,478 | 8,766 | 8,522 | 11,787 | 20, 309 |
| | | | | | | | | |
| | 86 | 1,403 | 147,681 | 91,730 | 239,411 | 33,968 | 35,103 | 69,071 |
| Ternate | 87 | 2,800 | 156,941 | 194, 508 | 351,449 | 74,767 | 72,074 | 146,841 |
| 4 1 | 88 | 3,034 | 286,965 | 302,691 | 589,656 | 92,500 | 89,110 | 181,610 |
| | 89 | 3,062 | 377,034 | 529,414 | 906,448 | 110, 189 | 113,014 | 223,203 |
| | 90 | 2,635 | 326.590 | 710.416 | 1,037,006 | 106,457 | 114,653 | 221,110 |

Table 2-7-3A Handling Volume of the Ports

*Source: DGSC Regional Office

·

| | | | · | |
|-----|------------------|--------------|------------------|---------------|
| No. | Sector | 1987 | 1988 | 1989 |
| | Agriculture | 1,226,137.91 | 1,440,466.42 | 1,629,818.91 |
| | ng1100+0410 | 919,007.11 | 1,026,996.53 | 658,468.20 |
| 2. | Mining | 24,846.57 | 27,387.61 | 30,848.53 |
| | - | 17,906.67 | 18,699.70 | 19,863.22 |
| 3. | Industry | 168,473.63 | 207,584.71 | 245,856.53 |
| | | 133,607.83 | 149,578.04 | 164,414.64 |
| 4. | Electricity, | 34,453.18 | 39,477.34 | 46,081.06 |
| | Gas & Water | 24,897.66 | 27,638.34 | 31,062.39 |
| | Supply | | | |
| 5. | Construction | 105,188.69 | 120,738.81 | 140,258.43 |
| | | 84,231.81 | 91,399.55 | 99,488.18 |
| 6. | Trade | 567,588.18 | 632,044.47 | 717,335.85 |
| | | 394,089.75 | 419,360.75 | 427,295.54 |
| 7. | Transport & | 248,407.78 | 279,974.96 | 314,100.59 |
| | Communication | 209,093.55 | 233,038.56 | 236,224.58 |
| 8. | Bank & Other | 50,337.28 | 58,671.64 | 70,330.53 |
| | Financial Office | 38,952.06 | 42,891.19 | 47,939.55 |
| 9. | House Rental | 132,919.65 | 141,139.66 | 152,805.45 |
| | | 103,824.07 | 107,281.59 | 111,390.47 |
| 10. | Government | 291,014.07 | 326,477.45 | 360,132.35 |
| | | 222,862.04 | 236,235.49 | 247,292.70 |
| 11. | Services | 21,905.58 | 25,320.41 | 28,099.89 |
| | | 28,310.35 | 20,048.64 | 21,190.75 |
| | Total | 2,870,427.47 | 3,299,283.48 | 3,735,668.12 |
| | | 2,166,825.91 | 2,363,168.38 | 2,502,520.39 |
| | | 1983 | : 1,751,729.24 m | illion rupiah |
| | | upper | : at current pri | ces |

Table 2-8-1A Gross Regional Domestic Product of South Sulawesi in million rupiah

| Year | Income per capita (in million rupiah |
|------|---------------------------------------|
| 1986 | 237,182 |
| | 193,898 |
| 1987 | 250,863 |
| | 197,771 |
| 1988 | 279,037 |
| | 210,183 |

Table 2-8-2A Gross Regional Domestic Product of Kabupaten Bone

| | | | S | TATE | | |
|----|-------------------|--------------|---------|-----------------|----------------|-----------------|
| DE | SCRIPTION | 1986 | 1987 | 1988 | 1989 | 1990 |
| 1. | Type of surface : | 1,018 | 583 | 583 | 921 | 921 |
| | 1. Asphalted | 928 | 528 | 552 | 901 | 911 |
| | 2. Gravels | 36 | 55 | 31 | 20 | 10 |
| | 3. Earth | | | | | - |
| | 4. Unspecified | [*] | · · · · | • •• • . | هنو ر | - |
| , | Condition : | 1,018 | 583 | 583 | 921 | 921 |
| • | 1. Good | 768 | 418 | 445 | 869 | 863 |
| | 2. Moderate | 214 | 155 | 130 | 32 | 58 |
| | 3. Damage | 36 | 10 | 8 | 20 | · - |
| | 4. Heavy damage | - | - | - | - | - |
| | 5. Unspecified | | - | . – | · - | - · · · · · |
| | | | PR | OVIN | СЕ | |
| | Type of surface : | 1,399 | 1,849 | 1,844 | 1,690 | 1,690 |
| • | 1. Asphalted | 1,369 | 1,834 | 1,844 | 1,679 | 1,616 |
| | 2. Gravels | 30 | 15 | . | 4 | 74 |
| | 3. Earth | | ** | | 7 | |
| | 4. Unspecified | - | - | - | - | - |
| 2. | Condition : | 1,399 | 1,849 | 1,844 | 1,690 | 1,690 |
| | 1. Good | 1,041 | 1,148 | 1,426 | 356 | 520 |
| | 2. Moderate | 273 | 653 | 365 | 1,223 | 1,190 |
| | 3. Damage | 85 | · _ | - | 111 | |
| | 4. Heavy damage | - | | 54 | · <u> </u> | – ' . |
| | 5. Unspecified | - | - | - . | - | - |
| | | | KAB | UPAT | E N | |
| | Type of surface : | 15,538 | 16,042 | | 19,42 | |
| | 1. Asphalted | 3,009 | 3,349 | 3,735 | 4,08 | |
| | 2. Gravels | 4,426 | 4,570 | 5,926 | 5,78 | 5 5,77 |
| | 3. Earth | 6,355 | 6,433 | 8,674 | | 2 8,63 |
| | 4. Unspecified | 1,748 | 1,690 | 912 | 1,10 | 7 1,04 |
| | Condition : | | | | | a Ali an Ali |
| | 1. Good | 15,538 | 16,042 | 5,748 | | |
| | 2. Moderate | 4,153 | 4,316 | 1,750 | 4,37 | |
| | 3. Damage | 3,620 | 3,690 | 4,357 | | |
| | 4. Heavy damage | 3,754 | 4,070 | 4,492 | | 5 4,31 |
| | 5. Unspecified | 4,011 | 3,966 | | _ | _ |

Table 2-8-3A Length of Road in South Sulawesi Province (km)

.

| DESCRIPTION | 1987 | 1988 | 1989 | 1990 |
|----------------------|-------|-------|-------|-------|
| 1. Type of surface : | | | ···· | |
| 1. Asphalted | 385 | 348 | 348 | 371 |
| 2. Gravels | 497 | 649 | 653 | 626 |
| 3. Earth | 1,317 | 1,202 | 1,198 | 1,202 |
| 4. Unspecified | ~ | | _ | - |
| 2. Condition : | | | : | |
| 1. Good | 334 | 5 333 | 333 | 354 |
| 2. Moderate | 325 | 647 | 675 | 663 |
| 3. Damage | 1,004 | 344 | 316 | 307 |
| 4. Heavy damage | 536 | 875 | 875 | 875 |
| Total | 2,199 | 2,199 | 2,199 | 2,199 |

Table 2-8-4A Length of Road in Kabupaten Bone (km)

Table 2-8-5A Number of Vehicles in South Sulawesi Province

| Type of Vehicles | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Passenger cars Trucks Buses Motorcycles | 28,466 46,936 8,452 219,278 | 31,277 52,025 9,772 240,390 | 18,382 47,738 3,780 231,478 | 19,663 40,452 9,854 245,334 | 26,528 37,476 6,225 233,823 |
| Total | 303,112 | 333,444 | 291,378 | 315,303 | 304,052 |

| مى مەرىپىيە بىرىكى بىرىكى يېرىكى بىرىكى يېرىكى بىرىكى يېرىكى بىرىكى يېرىكى بىرىكى يېرىكى بىرىكى بىرىكى بىرىكى ب | Number | Pass | enger | Cargo (| ton) | Vehicle(| |
|---|---------|---------|----------|-----------|---------|-----------|---------|
| | of Trip | Landing | Boarding | Unloading | Loading | Unloading | Loading |
| January | 46 | 13.905 | 12,264 | 4,056 | 4,256 | 554 | 522 |
| January February | 42 | 12,435 | 11,126 | 4,255 | 3,593 | 635 | 491 |
| March | 47 | 12,579 | 11,481 | 5,021 | 4,002 | 726 | 566 |
| April | 47 | 12,606 | 12,705 | 4,404 | 3,703 | 684 | 602 |
| May | 62 | 13,220 | 9,424 | 4,381 | 3,634 | 561 | 476 |
| | 60 | 15.619 | 13,790 | 4,795 | 4,577 | 685 | 537 |
| June | 61 | 20.571 | 14,484 | 5,343 | 4,710 | 816 | 650 |
| July | 61 | 13.813 | 11,176 | 4.787 | 4,194 | 626 | 537 |
| August | 36 | 11,901 | 9.563 | 4,640 | 4,046 | 667 | 570 |
| September | 31 | 12,923 | 10.878 | 4,700 | 4,349 | 698 | 621 |
| October | 31 | 11.956 | 10,590 | 4,701 | 4,340 | 563 | 601 |
| November | 50 | 13,540 | 12.189 | 6,420 | 6,299 | 863 | 794 |
| <u>December</u> | 574 | 165,068 | 139,670 | 57,503 | 51,703 | 8078 | 6967 |
| <u>Total</u> | 074 | 288 | 243 | 100 | 90 | 14 | 12 |
| Mean | | 200 | <u></u> | | | | |
| 1990 | 572 | 165068 | 139708 | 57066 | 52044 | 7066 | 6337 |
| 1990 | 360 | 125238 | 104655 | 33475 | 27630 | 4654 | 4600 |
| | 364 | 95678 | 84225 | 25868 | 19908 | 3949 | 4026 |
| <u> </u> | 1 304 | 03070 | 1 01000 | | | | |

Table 2-8-6A Monthly Variation of Passengers, Cargoes etc. transported by Ferrys from Kolaka to Bajoe in 1991

Source: Kolaka Port Office, MOC

| Table 2-8-7A | Statistic | Data | in | Kolaka | Sea | Port |
|--------------|-----------|------|----|--------|-----|------|

| | No of | Pass | enger | Cargo(ton) | | |
|---------|-------|---------|----------|---------------|---------|--|
| Year | Trip | Landing | Boarding | Unloading | Loading | |
| 1987 | 1.071 | 5,543 | 3,437 | 10,423 | 1,301 | |
| 1988 | 1.143 | 8,898 | 9,226 | 27,694 | 2,900 | |
| 1989 | 1.379 | 19.271 | 20,973 | 33,893 | 49,322 | |
| 1990 | 1,853 | 19,581 | 17,005 | 22,252 | 9,982 | |
| 1991 | 3 211 | 54.418 | 48,516 | <u>60,822</u> | 37,642 | |

Source: Kanwil of Southeast Sulawesi Province. MOC